**16S and 23S Ribosomal RNA Mutation Database** Triman K.L.   
16S and 23S ribosomal RNA mutations   
[database](http://ribosome.fandm.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/229)

**2D-PAGE** Pleissner, K.-P., Eifert, T., Buettner, S., Knipper, J., Schmelzer, P., Stein, R., Schmidt, F., Mattow, J., Zimny-Arndt, U., Schmid, M., Jungblut, P.R.   
Proteome database system for microbial research   
[database](http://www.mpiib-berlin.mpg.de/2D-PAGE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/606)

**2P2Idb** Basse, MJ., Betzi, S., Bourgeas, R., Bouzidi, S., Chetrit, B., Hamon, V., Morelli, X., and Roche, P.   
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[database](http://2p2idb.cnrs-mrs.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1574)

**3D rRNA modification maps**   
Locations of modified rRNA nucleotides within the 3D structure of the ribosome   
[database](http://people.biochem.umass.edu/fournierlab/3dmodmap/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1041)

**3D-Footprint** Bruno Contreras-Moreira   
Estimates of DNA-binding specificity for protein-DNA complexes in PDB   
[database](http://floresta.eead.csic.es/3dpwm/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1341)

**3D-Genomics**   
Structural annotations for complete proteomes   
[database](http://www.sbg.bio.ic.ac.uk/3dgenomics)  [summary](http://www.oxfordjournals.org/nar/database/summary/401)

**3D-Interologs**   
Protein-protein interactions in various evolutionary lineages   
[database](http://gemdock.life.nctu.edu.tw/3D-Interologs/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1042)

**3DID - 3D interacting domains**   
Domain-domain interactions in proteins with known 3D structures   
[database](http://3did.irbbarcelona.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/633)

**3DNALandscapes** Guohui Zheng, Andrew V. Colasanti, Xiang-Jun Lu, and Wilma K. Olson   
Conformational features of DNA   
[database](http://dcp.rutgers.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1350)

**3DSwap: Database of Proteins involved in 3D domain Swapping** Khader Shameer1,3, Prasahant N. Shingate1, Manjunath, S.C.P.1, Karthika, M.1, Ganesan Pugalenthi2 and Ramanathan Sowdhamini1\*   
3DSwap, a database of domain swapped proteins   
[database](http://caps.ncbs.res.in/3DSwap)  [summary](http://www.oxfordjournals.org/nar/database/summary/1583)

**4DXpress**   
Database for cross species expression pattern comparisons   
[database](http://ani.embl.de/4DXpress/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1043)

**5'SAGE**   
5'-end serial analysis of gene expression   
[database](http://5sage.gi.k.u-tokyo.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/634)

**5S Ribosomal RNA Database**   
5S rRNA sequences   
[database](http://biobases.ibch.poznan.pl/5SData/)  [summary](http://www.oxfordjournals.org/nar/database/summary/230)

**AAindex** Katayama, T., Kawashima, S., Kanehisa, M.   
Physicochemical and biological properties of amino acids   
[database](http://www.genome.jp/aaindex/)  [summary](http://www.oxfordjournals.org/nar/database/summary/221)

**AANT - Amino Acid - Nucleotide interaction database**   
Amino acid-nucleotide interaction database   
[database](http://aant.icmb.utexas.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/402)

**ABA - Ascidian Body Atlas** Hotta, K.1,2, Tahakashi, H.3, Ueno, N.3, Ikeo, K.1, Gojobori, T.1   
A digital 3D atlas of ascidian embryo development   
[database](http://chordate.bpni.bio.keio.ac.jp/faba/)  [summary](http://www.oxfordjournals.org/nar/database/summary/879)

**ABCdb** Quentin Y., Basse, M-J., Fichant, G.   
Archaeal and bacterial ABC transporters   
[database](http://www-abcdb.biotoul.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/157)

**ABS** Blanco E.1,2, Farre D.1,2, Alba M.1, Messeguer X.2 and Guigo R.1   
Experimentally verified orthologous transcription factor binding sites   
[database](http://genome.crg.es/datasets/abs2005/)  [summary](http://www.oxfordjournals.org/nar/database/summary/795)

**ACeDB**   
C. elegans, S. pombe, and human sequences and genomic information   
[database](http://www.acedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/63)

**ACLAME - A Classification of Mobile genetic Elements**   
A classification of genetic mobile elements   
[database](http://aclame.ulb.ac.be/)  [summary](http://www.oxfordjournals.org/nar/database/summary/403)

**ACTIVITY**   
Functional DNA/RNA site activity   
[database](http://wwwmgs.bionet.nsc.ru/mgs/systems/activity/)  [summary](http://www.oxfordjournals.org/nar/database/summary/231)

**ADDA - A Domain Database** Andreas Heger and Liisa Holm   
A database of protein domain families   
[database](http://ekhidna.biocenter.helsinki.fi/sqgraph/pairsdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/622)

**ADHDgene** Wang Jing   
Genetics of Attention Deficit Hyperactivity Disorder   
[database](http://adhd.psych.ac.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1536)

**AffinDB**   
Affinity data for protein-ligand complexes   
[database](http://pc1664.pharmazie.uni-marburg.de/affinity/)  [summary](http://www.oxfordjournals.org/nar/database/summary/796)

**AgBase** McCarthy F.M.1,2, Bridges S.M.2,3, Wang N.2,3, Magee G.B.2,3, Williams W.P.4, Luthe D.5, and Burgess S.C.1,3,6   
GO annotations for agriculturally important plants and animals   
[database](http://www.agbase.msstate.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/974)

**AGD - *Ashbya* Genome Database**   
*Ashbya gossypii* genome database   
[database](http://agd.vital-it.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/635)

**AGNS - *Arabidopsis* GeneNet supplementary** Omelyanchuk N.1, Mironova V.1, Poplavsky A.1, Podkoldny N.1, Kolchanov N.1, Mjolsness E.2 and Meyerowitz E.3   
Gene expression and phenotypes of mutants and transgens   
[database](http://wwwmgs.bionet.nsc.ru/agns/)  [summary](http://www.oxfordjournals.org/nar/database/summary/636)

**AGRIS - *Arabidopsis* Gene Regulatory Information Server** Davuluri RV1, Sun H1, Palaniswamy SK1, Matthews N2, Molina C2, Grotewold E2   
*Arabidopsis* gene regulatory information server: promoters, transcription factors and their target genes   
[database](http://arabidopsis.med.ohio-state.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/618)

**ALFRED** Rajeevan, Haseena1,2; Soundararajan, Usha1; Kidd, Judith1; Pakstis, Andrew1; Kidd, Kenneth1   
Allele frequencies and DNA polymorphisms   
[database](http://alfred.med.yale.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/119)

**Allele Frequency Net** Faviel F. Gonzalez-Galarza, Stephen Christmas, Derek Middleton, and Andrew R. Jones   
Immunogenetic gene frequencies in worldwide populations   
[database](http://www.allelefrequencies.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1392)

**Allen Brain Atlas** Susan Sunkin   
Gene expression and neuroanatomical data.   
[database](http://www.brain-map.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1670)

**Allosteric Database**   
Allosteric proteins and their activators, inhibitors, and regulators   
[database](http://mdl.shsmu.edu.cn/ASD/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1396)

**ALPSbase**   
Autoimmune lymphoproliferative syndrome database   
[database](http://www.niaid.nih.gov/topics/alps/Pages/default.aspx)  [summary](http://www.oxfordjournals.org/nar/database/summary/768)

**AlterORF**   
Database of alternate open reading frames   
[database](http://www.cienciavida.cl/alterorf/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1044)

**AlzGene** Bertram L.1, Mullin K.1, McQueen M.1, Blacker D.1, Tanzi R.E.1, Kinoshita J.2, Noyes P.2, Knep C.2   
A database of all published Alzheimerâ€™s disease genetic association studies   
[database](http://www.alzgene.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/788)

**Aminoacyl-tRNA synthetase database** Szymanski M. and Barciszewski J.   
Aminoacyl-tRNA synthetase sequences   
[database](http://rose.man.poznan.pl/aars/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/156)

**AmoebaDB**   
Functional Genomic Resource for Amoebazoa   
[database](http://amoebadb.org/amoeba/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1393)

**Androgen Receptor Gene Mutations Database** Gottlieb, B.   
Mutations in the androgen receptor gene   
[database](http://androgendb.mcgill.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/120)

**Animal Genome Size Database** Gregory, T.R.   
Genome sizes of vertebrates and invertebrates   
[database](http://www.genomesize.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/957)

**Animal Toxin Database**   
Database of animal toxins   
[database](http://protchem.hunnu.edu.cn/toxin/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1045)

**AnimalQTLdb** Z.-L. Hu, E.R. Fritz and J.M. Reecy   
Quantitative trait loci in livestock animals   
[database](http://www.animalgenome.org/QTLdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/975)

**AnimalTFDB** Guo An-Yuan   
Animal Transcription Factor Database   
[database](http://115.156.249.50/TFDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1460)

**AntigenDB** Hifzur Rahman Ansari, Darren R. Flower, and G.P.S. Raghava   
Sequence, structure, and other data on pathogen antigens   
[database](http://www.imtech.res.in/raghava/antigendb)  [summary](http://www.oxfordjournals.org/nar/database/summary/1390)

**AntiJen** Toseland C.P., Clayton D.J., McSparron H., Hemsley S.L., Blythe M.J., Paine K., Doytchinova I.A., Guan P., Hattotuwagama C.K. and Flower D.R.   
Quantitative binding data for peptides and proteins of immunological interest   
[database](http://www.ddg-pharmfac.net/antijen/AntiJen/antijenhomepage.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/799)

**AOBase** X.C. Bo, S.K. Lou, D.C. Sun, J. Yang, S.Q. Wang   
Antisense oligonucleotide selection and design   
[database](http://www.bioit.org.cn/ao/aobase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/781)

**APD - Antimicrobial Peptide Database**   
Antimicrobial peptide database   
[database](http://aps.unmc.edu/AP/main.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/408)

**AphidBase**   
Genomic database for the pea aphid (*Acyrthosiphon pisum*)   
[database](http://www.aphidbase.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1152)

**ApiDB - Apicomplexan DataBase** Aurrecoechea C.1, Heiges M.1, Wang H.1, Wang Z.2, Fischer S.3, Rhodes P.2,Miller J.2, Kraemer E.2, Stoeckert C.3, Roos D.4, Kissinger J.1,5   
Unified resource for various apicomplexan species   
[database](http://eupathdb.org/eupathdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/969)

**ApiDots**   
EST sequences from various apicomplexan parasites   
[database](http://www.cbil.upenn.edu/apidots/)  [summary](http://www.oxfordjournals.org/nar/database/summary/409)

**ApoHoloDB** Tien-Hao Chang   
Apo- and Holo- structure pairs of proteins   
[database](http://ahdb.ee.ncku.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1488)

**AppaDB**   
A database on the nematode *Pristionchus pacificus*   
[database](http://appadb.eb.tuebingen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/410)

**APPRIS** Michael Tress   
A system for annotating alternative splice isoforms   
[database](http://appris.bioinfo.cnio.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1588)

**Aptamer Database** Lee J.1, Hesselberth J.2, Meyers L.3, Ellington A.1   
A database on aptamers, small RNA (or DNA) molecules capable of binding nucleic acids, proteins, etc.   
[database](http://aptamer.icmb.utexas.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/411)

**Arabidopsis Hormone Database** Peng, Z.Y.1, Zhou, X.2, Li, L.1, Yu, X.1, Li, H.1, Jiang, Z.1, Cao, G.1, Bai, M.3, Wang, X.4, Jiang, C5, Lu, H.6, Hou, X.1, Qu, L1, Wang, Z.3, Zuo, J.4, Fu, X.5, Su, Z.2, Li, S.1, and Guo, H.1   
A Comprehensive Genetic and Phenotypic Information Database for Plant Hormone Research in Arabidopsis   
[database](http://ahd.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1287)

**Arabidopsis Mitochondrial Protein Database** Heazlewood J.L., Tonti-Filippini J.S., Gout A., Day D.A., Whelan J. and Millar A.H.   
Experimentally identified mitochondrial proteins in *Arabidopsis*   
[database](http://www.plantenergy.uwa.edu.au/applications/ampdb/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/637)

**Arabidopsis MPSS**   
*Arabidopsis* gene expression detected by massively parallel signature sequencing   
[database](http://mpss.udel.edu/at/)  [summary](http://www.oxfordjournals.org/nar/database/summary/780)

**Arabidopsis Nucleolar Protein Database**   
Comparative analysis of nucleolar proteomes of human and *Arabidopsis*   
[database](http://bioinf.scri.sari.ac.uk/cgi-bin/atnopdb/proteome_comparison/)  [summary](http://www.oxfordjournals.org/nar/database/summary/638)

**ArachnoServer** Volker Herzig, David L. A. Wood, Felicity Newell, Pierre-Alain Chaumeil, Quentin Kaas, Greta J. Binford, Graham M. Nicholson, Dominique Gorse, and Glenn F. King   
Sequence, structure and activity of protein toxins from spider venom   
[database](http://www.arachnoserver.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1394)

**ARAMEMNON** Schwacke, R.1, Schneider, A.1, van der Graaff, E.1, Desimone, M.2, Frommer, W.B.2,3, FlÜgge, U.I.1, Kunze, R.1   
Arabidopsis thaliana membrane proteins and transporters   
[database](http://aramemnon.botanik.uni-koeln.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/412)

**ArchDB** Espadaler, J. 1,2, Fernandez-Fuentes, N.1,3, Hermoso, A.1, Querol, E.1, Aviles, F.X. 1, Sternberg, M.J.E.3, Oliva, B.2   
Automated classification of protein loop structures   
[database](http://sbi.imim.es/archdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/413)

**ARDB** Liu, B.2, Pop, M.1,2   
Antibiotic resistance genes in bacteria   
[database](http://ardb.cbcb.umd.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1207)

**ARED** Bakheet, T.1, Williams, B.2, Khabar, K.2   
AU-rich element-containing mRNAs   
[database](http://brp.kfshrc.edu.sa/ARED/)  [summary](http://www.oxfordjournals.org/nar/database/summary/232)

**AREsite** Andreas R. Gruber, JÃ¶rg Fallmann, Franz Kratochvill, Pavel Kovarik, and Ivo L. Hofacker   
AU-rich elements in vertebrate mRNA UTR sequences   
[database](http://rna.tbi.univie.ac.at/AREsite)  [summary](http://www.oxfordjournals.org/nar/database/summary/1395)

**ArkDB**   
Genome databases for farm and other animals   
[database](http://www.thearkdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/65)

**ArrayExpress** Brazma, A., Parkinson, H., Sarkans, U., Shojatalab, M., Vilo, J., Abeygunawardena, N., Holloway, E., Kapushesky, M., Kemmeren, P., Garcia Lara, G., Oezcimen, A., Sansone, S., Rocca-Serra, P.   
Public collection of microarray gene expression data   
[database](http://www.ebi.ac.uk/arrayexpress/)  [summary](http://www.oxfordjournals.org/nar/database/summary/338)

**ARTADEdb** Toyoda T. and Mochizuki Y.   
Transcriptional structures elucidated based on tiling arrays in Arabidopsis   
[database](http://omicspace.riken.jp/ARTADE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/880)

**AS-ALPS**   
Alternative Splicing-induced Alteration of Protein Structure   
[database](http://as-alps.nagahama-i-bio.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1284)

**ASAP - A Systematic Annotation Package**   
Community analysis of *E. coli* and related genomes   
[database](https://asap.ahabs.wisc.edu/annotation/php/ASAP1.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/415)

**ASAP II** Kim N.1, Alekseyenko A.2, Roy M.1 and Lee C.1   
Comparative analysis of alternative splicing in animal species   
[database](http://www.bioinformatics.ucla.edu/ASAP2/)  [summary](http://www.oxfordjournals.org/nar/database/summary/414)

**ASC - Active Sequence Collection** Angelo Facchiano1, Antonio Facchiano2, Francesco Facchiano2   
Biologically-active short amino acid sequences   
[database](http://bioinformatica.isa.cnr.it/ASC/)  [summary](http://www.oxfordjournals.org/nar/database/summary/374)

**ASHESdb**   
Alternatively spliced human genes by exon skipping database   
[database](http://sege.ntu.edu.sg/wester/ashes/)  [summary](http://www.oxfordjournals.org/nar/database/summary/639)

**ASPD** Valuev, V.P., Afonnikov D.A., Ponomarenko M.P., Kolchanov N.A.   
Artificial Selected Proteins/Peptides Database   
[database](http://wwwmgs.bionet.nsc.ru/mgs/gnw/aspd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/308)

**Aspergillus Genomes**   
Unified Aspergillus resource with medical and genomic data   
[database](http://www.aspergillus-genomes.org.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1289)

**AspGD** Arnaud, Martha; Cerqueira, Gustavo; Inglis, Diane; Skrzypek, Marek; Binkley, Jonathan; Chibucos, Marcus; Crabtree, Jonathan; Howarth, Clinton; Orvis, Joshua; Shah, Prachi; Wymore, Farrell; Binkley, Gail; Miyasato, Stuart; Simison, Matt; Sherlock, Gavin; Wortman, Jennifer   
The *Aspergillus* Genome Database   
[database](http://www.aspgd.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1359)

**ASPicDB**   
Alternative Splicing Prediction DataBase   
[database](http://www.caspur.it/ASPicDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1397)

**ASRP - Arabidopsis Small RNA Project**   
Arabidopsis thaliana small RNA project   
[database](http://asrp.cgrb.oregonstate.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/640)

**ASTD**   
EBI's alternative splicing database project includes three databases: AltSplice, AltExtron and AEdb   
[database](http://www.ebi.ac.uk/astd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/28)

**ASTRAL** Chandonia, J. M.1, Walker, N.2, Lo Conte, L.3, Koehl, P.4, Levitt, M.4, Brenner, S. E.5   
Sequences of domains of known structure, selected subsets, and sequence-structure correspondences   
[database](http://astral.berkeley.edu//)  [summary](http://www.oxfordjournals.org/nar/database/summary/255)

**ATGC**   
Alignable Tight Genomic Clusters of Closely Related Prokaryotic Genomes   
[database](http://atgc.lbl.gov/atgc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1222)

**AtGDB** Schlueter, S.D.1, Wilkerson, M.D.1, Brendel, V.1,2   
Arabidopsis thaliana genome database   
[database](http://www.plantgdb.org/AtGDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/394)

**AthaMap**   
Genome-wide map of putative transcription factor binding sites in *Arabidopsis thaliana*   
[database](http://www.athamap.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/765)

**Atlas of Genetics and Cytogenetics in Oncology and Haematology** Huret JL1, Dessen P2, Bernheim A2   
Chromosomal abnormalities in cancer   
[database](http://atlasgeneticsoncology.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/122)

**AtPID**   
Arabidopsis thaliana Protein Interactome Database   
[database](http://www.megabionet.org/atpid/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1046)

**ATTED-II** Obayashi T.1,2,3, Kinoshita K.4,5, Nakai K.4, Shibaoka M.6, Hayashi S.6, Saeki M.6, Shibata D.7, Saito K.2,3,8 and Ohta H.1,9   
Coexpressed gene sets and gene regulators in *Arabidopsis*   
[database](http://atted.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/934)

**AutDB**   
Catalog of genes linked to Autism Spectrum Disorders   
[database](http://www.mindspec.org/autdb.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1274)

**AutismKB** Liping Wei   
Autism genetics KnowledgeBase   
[database](http://autism.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1537)

**Autophagy Database** Hui Liu, Wei Liu, Yifang Liao, Long Cheng, Qian Liu, Xiang Ren, Lisong Shi, Xin Tu, Qing Kenneth Wang, and An-Yuan Guo   
Proteins involved in self-digestion of eukaryotic cells   
[database](http://tp-apg.genes.nig.ac.jp/autophagy/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1398)

**AutoPSI**   
Automated structural classification of protein sequences   
[database](http://services.bio.ifi.lmu.de:1046/AutoPSIDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1047)

**autoSNPdb**   
Plant SNP discovery database   
[database](http://acpfg.imb.uq.edu.au/autosnpdb.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1202)

**Axeldb** Nicolas Pollet   
Gene expression in *Xenopus laevis*   
[database](http://indigene.issb.genopole.fr/axeldb)  [summary](http://www.oxfordjournals.org/nar/database/summary/11)

**BacMap** Wishart, David; Cruz, Joseph; Liu, Yifeng; Liang, Jack; Zhu, You; Wilson, Michael.; Dennis, Jonathan; Stothard, Paul; Van Domselaar, Gary   
Picture atlas of annotated bacterial genomes   
[database](http://wishart.biology.ualberta.ca/BacMap/)  [summary](http://www.oxfordjournals.org/nar/database/summary/641)

**Bacteriome.org**   
Protein interaction database for E. coli   
[database](http://www.bacteriome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1048)

**BACTIBASE**   
Bacteriocin natural antimicrobial peptides   
[database](http://bactibase.pfba-lab-tun.org/main.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1166)

**BAliBASE**   
Benchmark database for comparison of multiple sequence alignments   
[database](http://bips.u-strasbg.fr/fr/Products/Databases/BAliBASE2/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/288)

**BarleyBase** Shen L.1, Gong J.1,5, Xin J.1,5, Caldo R.A.2, Nettleton D.3, Cook D.3, Wise R.P.2,4 and Dickerson J.A.1,5   
Expression profiling of plant genomes   
[database](http://www.barleybase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/599)

**BÂµG@Sbase** Adam Witney   
Microarray datasets for microbial gene expression   
[database](http://bugs.sgul.ac.uk/E-BUGS-PUB)  [summary](http://www.oxfordjournals.org/nar/database/summary/1504)

**BCIpep** Saha S., Bhasin M. and Raghava G.P.S.   
A database of B-cell epitopes   
[database](http://bioinformatics.uams.edu/mirror/bcipep/)  [summary](http://www.oxfordjournals.org/nar/database/summary/642)

**BCSDB/Glycoscience**   
Bacterial Carbohydrate Structure DataBase   
[database](http://www.glyco.ac.ru/bcsdb3/)  [summary](http://www.oxfordjournals.org/nar/database/summary/977)

**BeetleBase**   
Genome database of the beetle *Tribolium castaneum*   
[database](http://www.beetlebase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/643)

**Benchmark** Sonego P., Pacurar M., Dhir S., Farkas A.T., Kocsor A., GÃ¡spÃ¡ri Z., Leunissen J.A.M. and Pongor S.   
Protein classification benchmark collection: training/test sets for machine learning   
[database](http://net.icgeb.org/benchmark/)  [summary](http://www.oxfordjournals.org/nar/database/summary/978)

**Beta Cell Genomics** Mazzarelli, J., Brestelli, J., Gorski, R., Liu, J., Manduchi, E., Pinney, D., Schug, J., White, P., Kaestner, K., and Stoeckert, C.   
Gene expression in pancreatic development, beta cell function and diabetes   
[database](http://genomics.betacell.org/gbco/)  [summary](http://www.oxfordjournals.org/nar/database/summary/13)

**BGI-RISe - Beijing Genomics Institute Rice Information System** Zhao W.1, Wang J.2, He X.1, Huang X.1, Jiao Y.1, Dai M.1, Wei S.1, Fu J.1, Chen Y.1, Ren X.1, Zhang Y.1,2, Ni P.1, Zhang J.1, Li S.1,2, Wang J.1, Wong G.K.-S.1,3, Zhao H.4, Yu J.1, Yang H.1 and Wang J.1   
Integrated rice database   
[database](http://rise.genomics.org.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/418)

**BGMUT** Olga Blumenfeld   
Blood Group Antigen Gene Mutation Database   
[database](http://www.ncbi.nlm.nih.gov/projects/gv/mhc/xslcgi.cgi?cmd=bgmut)  [summary](http://www.oxfordjournals.org/nar/database/summary/1538)

**Binding MOAD**   
Binding Mother of All Databases: a database of protein-ligand crystal structures   
[database](http://www.bindingmoad.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1049)

**BindingDB** Liu T., Lin Y., Wen X., Jorissen R.N. and Gilson M.K.   
Binding affinities of protein-ligand and other complexes   
[database](http://www.bindingdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/979)

**BioCarta**   
Online maps of metabolic and signaling pathways   
[database](http://www.biocarta.com/genes/allPathways.asp)  [summary](http://www.oxfordjournals.org/nar/database/summary/419)

**BioCyc**   
A collection of hundreds of databases that integrate genome and metabolic pathway data.   
[database](http://biocyc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/420)

**Biodefense Proteomics Resource Center**   
Proteomics and host-pathogen interactions for biodefense-related microorganisms   
[database](http://www.proteomicsresource.org/default.aspx)  [summary](http://www.oxfordjournals.org/nar/database/summary/1050)

**BioDrugScreen** Liwei Li, Khuchtumur Bum-Erdene, Peter H. Baenziger, Joshua J. Rosen, Jamison R. Hemmert, Joy A. Nellis, Marlon E. Pierce, and Samy O. Meroueh   
A resource for computational drug design and discovery   
[database](http://www.biodrugscreen.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1384)

**BioGPS** Andrew I. Su   
Gene annotation portal and a resource on gene and protein function   
[database](http://biogps.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1672)

**BioGRID** Stark C.1, Breitkreutz B.-J.2, Reguly T.2, Boucher L.2,3, Breitkreutz A.2 and Tyers M.2,3   
Genetic and physical interactions in yeast, worm, fly and human   
[database](http://www.thebiogrid.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/800)

**BioLiP** Jianyi Yang   
Biologically relevant ligand-protein interactions   
[database](http://zhanglab.ccmb.med.umich.edu/BioLiP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1651)

**BioMagResBank** Markley, J., Ulrich, E.   
NMR spectroscopic data from proteins, peptides, and nucleic acids   
[database](http://www.bmrb.wisc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/257)

**BioModels** Le Novere N.1, Bornstein B.2, Broicher A.1, Courtot M.1, Donizelli M.1, Dharuri H.3, Lu Li1, Sauro H.3, Schilstra M.4, Shapiro B.2, Snoep J.L.5 and Hucka M.6   
Mathematical models of biochemical and cellular systems   
[database](http://www.ebi.ac.uk/biomodels/)  [summary](http://www.oxfordjournals.org/nar/database/summary/801)

**Bionemo**   
Curated information about biodegradation-related genes and proteins   
[database](http://bionemo.bioinfo.cnio.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1282)

**BioNumbers** Ron Milo, Paul Jorgensen, Uri Moran, Griffin Weber, and Michael Springer   
Useful biological numbers   
[database](http://www.bionumbers.hms.harvard.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1382)

**BioSilico**   
Integrated access to various metabolic databases   
[database](http://biosilico.kaist.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/644)

**BioThesaurus** Liu H.1, Hu Z.Z.2 and Wu C.H.2   
A collection of gene/protein names and associated sequences   
[database](http://pir.georgetown.edu/iprolink/biothesaurus/)  [summary](http://www.oxfordjournals.org/nar/database/summary/915)

**BIOZON** Yona G., Birkland A.   
A system for unification and analysis of heterogeneous biological data   
[database](http://biozon.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/786)

**BISC** Thomas Juettemann 1,2 and Dietlind L. Gerloff 2   
Binary SubComplexes in Proteins Database   
[database](http://bisc.soe.ucsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1298)

**BitterDB** Masha Niv   
Bitter taste: molecules and receptors   
[database](http://bitterdb.agri.huji.ac.il/bitterdb/dbbitter.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1482)

**Blocks** Henikoff, J.G.1, Pietrokovski, S.3, Greene, E.A.1, Taylor, N.1, Ng, P.C.1, Henikoff, S.2   
Multiple alignments of conserved regions of protein families   
[database](http://blocks.fhcrc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/203)

**BloodExpress**   
Database of Gene Expression in Mouse Haematopoiesis   
[database](http://hscl.cimr.cam.ac.uk/bloodexpress/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1281)

**BodyMap-Xs** Ogasawara O., Otsuji M., Watanabe K., Iizuka T., Hishiki T., Kawamoto S., Tamura T. and Okubo K.  
A database for cross-species comparison of vertebrate gene expression   
[database](http://bodymap.genes.nig.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/881)

**BodyParts3D**   
Database of human anatomy, represented as 3D anatomical concepts   
[database](http://lifesciencedb.jp/bp3d/?lng=en)  [summary](http://www.oxfordjournals.org/nar/database/summary/1194)

**Bovine Genome** Christopher P. Childers, Justin T. Reese, Jaideep P. Sundaram, Donald C. Vile, C. Michael Dickens, Kevin L. Childs, Hanni Salih, Anna K. Bennett, Darren E. Hagen, David L. Adelson, and Christine G. Elsik   
Bovine Genome Database   
[database](http://bovinegenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1399)

**BPS**   
Database of RNA Base-Pair Structures   
[database](http://bps.rutgers.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1216)

**Brassica Genome** T.A. Erwin1,2,3, E.G. Jewell1,2, C.G. Love1,2, G.A.C. Lim1,2, Xi Li1,2, R. Chapman1, J. Batley1, J. Stajich4, E. Mongin1,5, E. Stupka6, B. Ross7, G. Spangenberg1,2,3 and D. Edwards1,2,3   
A database for *Brassica* genomic research   
[database](http://www.brassicagenome.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/610)

**BRENDA** Chang, A., Scheer, M., Grote, A., Schomburg, I., and Schomburg, D.   
Enzyme names and properties: sequence, structure, specificity, stability, reaction parameters and isolation data  
[database](http://www.brenda-enzymes.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/421)

**Brix** Peter Vanhee 1,2, Erik Verschueren 3, Lies Baeten 1,2, Francois Stricher 3, Luis Serrano 3,4, Frederic Rousseau 1,2 and Joost Schymkowitz 1,2   
"Protein building blocks for structural analysis, modeling and design"   
[database](http://brix.switchlab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1299)

**BSD - Biodegradative Strain Database**   
Microorganisms that can degrade aromatic and other organic compounds   
[database](http://bsd.cme.msu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/423)

**BSDB** Mateusz Sikora 1, Joanna I. Sułkowska 2, Bartłomiej S. Witkowski 1 and Marek Cieplak 1   
Biomolecule Stretching Database   
[database](http://info.ifpan.edu.pl/BSDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1300)

**BSORF - *Bacillus subtilis* Open Reading Frames**   
Bacillus subtilis genome database at Kyoto U.   
[database](http://bacillus.genome.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/424)

**BSRD** Lei Li, Dandan Huang, Man Kit Cheung, Wenyan Nong, Qianli Huang and Hoi Shan Kwan   
A repository of bacterial small regulatory RNA   
[database](http://kwanlab.bio.cuhk.edu.hk/BSRD)  [summary](http://www.oxfordjournals.org/nar/database/summary/1597)

**BTKbase** VÄliaho, J1, Smith, C.I.E.2, Vihinen, M.3   
Mutation registry for X-linked agammaglobulinemia   
[database](http://bioinf.uta.fi/BTKbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/123)

**BTO** Marion Gremse 1, Antje Chang 1, Ida Schomburg 1, Andreas Grote 1, Maurice Scheer 1, Christian Ebeling 1and Dietmar Schomburg 1   
BRENDA Tissue Ontology   
[database](http://www.brenda-enzymes.org/BTO/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1301)

**BuchneraBase**   
Genome of the pea aphid symbiont *Buchnera* sp. APS   
[database](http://www.buchnera.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1153)

**ButterflyBase**   
Genomics of butterflies (Lepidoptera)   
[database](http://www.butterflybase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1052)

**BYKdb** Christophe Combet   
Bacterial protein tYrosine Kinase database   
[database](http://bykdb.ibcp.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1472)

**C. elegans Project**   
Genome sequencing data at the Sanger Institute   
[database](http://www.sanger.ac.uk/Projects/C_elegans/)  [summary](http://www.oxfordjournals.org/nar/database/summary/430)

**CADB - Conformational Angles DataBase of Proteins** Sheik, S.S., Ananthalakshmi, P., Ramya Bhargavi, G., Sekar, K.   
Conformation angles of protein structures, with associated crystallographic data   
[database](http://cluster.physics.iisc.ernet.in/cadb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/384)

**CADgene** Hui Liu, Wei Liu, Yifang Liao, Long Cheng, Qian Liu, Xiang Ren, Lisong Shi, Xin Tu, Qing Kenneth Wang, and An-Yuan Guo   
Coronary Artery Disease gene database   
[database](http://www.bioguo.org/CADgene/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1400)

**CADRE - Central Aspergillus Data Repository** Mabey Gilsenan, Jane; Cooley, John; Bowyer, Paul   
Central Aspergillus data repository   
[database](http://www.cadre-genomes.org.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/425)

**CAGE** Kawaji H.1, Kasukawa T.1,2, Fukuda S.2, Katayama S.2, Kai C.2, Kawai J.2,3, Carninci P.2,3, and Hayashizaki Y.2,3   
CAGE tags for cap-analysis of gene expression   
[database](http://fantom31p.gsc.riken.jp/cage/mm5/)  [summary](http://www.oxfordjournals.org/nar/database/summary/802)

**CAMERA** Shulei Sun, Jing Chen, Weizhong Li, Ilkay Altintas, Abel Lin, Steve Peltier, Karen Stocks, Eric E. Allen, Mark Ellisman, Jeffrey Grethe, and John Wooley   
Community Cyberinfrastructure for Advanced Microbial Ecology Research and Analysis of metagenomic data   
[database](http://camera.calit2.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1401)

**CAMP** Shaini Thomas, Shreyas Karnik, Ram Shankar Barai, V. K. Jayaraman, and Susan Idicula-Thomas   
Collection of Anti-Microbial Peptides   
[database](http://bicnirrh.res.in/antimicrobial)  [summary](http://www.oxfordjournals.org/nar/database/summary/1385)

**CancerGenes** Higgins ME, Claremont M, Major JE, Sander C, Lash AE   
A gene selection resource for cancer genome projects   
[database](http://cbio.mskcc.org/cancergenes/)  [summary](http://www.oxfordjournals.org/nar/database/summary/951)

**CancerResource** Jessica Ahmed 1, Thomas Meinel 1, Mathias Dunkel 1, Manuela S. Murgueitio 1, Robert Adams1, Corinna Blasse 1, Andreas Eckert 1, Saskia Preissner 1 and Robert Preissner 1   
Cancer-relevant proteins and compound interactions   
[database](http://bioinformatics.charite.de/cancerresource/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1302)

**Candida Genome Database** Inglis, Diane; Arnaud, Martha; Binkley, Jonathan; Shah, Prachi; Skrzypek, Marek; Wymore, Farrell; Binkley, Gail; Miyasato, Stuart; Simison, Matt and Sherlock, Gavin   
*Candida albicans* genome database   
[database](http://www.candidagenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/645)

**CandidaDB** C. dâ€™Enfert1, S. Goyard1, S. Rodriguez-Arnaveilhe1, L. Frangeul2, L. Jones3, F. Tekaia4, O. Bader5, A. Albrecht5, L. Castillo6, A. Dominguez7, J. Ernst8, C. Fradin5, C. Gaillardin9, S. Garcia-Sanchez1, P. de Groot10, B. Hube5, F.M. Klis10, S. Krishnamurthy8, D. Kunze5, M.-C. Lopez7, A. Mavor11, N. Martin7, I. Moszer2, D. OnÉsime9, J. Perez Martin12, R. Sentandreu6, E. Valentin6 and A.J.P. Brown11   
*Candida albicans* genome database   
[database](http://genolist.pasteur.fr/CandidaDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/617)

**CanGEM**   
Gene copy number changes in cancer   
[database](http://www.cangem.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1053)

**canSAR** Bissan Al-Lazikani   
Integrated cancer research and drug discovery resource   
[database](http://cansar.icr.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1531)

**CAPS-DB** Narcis Fernandez-Fuentes   
Classification of helix cappings in protein structures   
[database](http://www.bioinsilico.org/CAPSDB)  [summary](http://www.oxfordjournals.org/nar/database/summary/1489)

**CarpeDB** Locke, C.J., Caldwell, K.A., Caldwell, G.A.   
A database on the genetics of epilepsy   
[database](http://www.carpedb.ua.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/594)

**CaSNP** Qingyi Cao, Meng Zhou, Xujun Wang, Cliff A. Meyer, Yong Zhang, Zhi Chen, Cheng Li, and X. Shirley Liu   
Cancer SNP data on copy number alterations   
[database](http://cistrome.dfci.harvard.edu/CaSNP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1402)

**CASRDB** Hendy, G., Pidasheva, S.   
CASR mutations causing hypercalcemia and/or hyperparathyroidism   
[database](http://www.casrdb.mcgill.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/124)

**CATdb**   
Arabidopsis transcriptome data   
[database](http://urgv.evry.inra.fr/CATdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1054)

**CATH** Pearl, F.M.1, Bennett, C.F.1, Bray, J.E.1, Harrison, A.P.1, Martin, N.2, Shepherd, A.1, Sillitoe, I.1, Thornton, J.3, Orengo, C.A.1   
Classification of protein domain structures   
[database](http://www.cathdb.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/258)

**CATMA - Complete Arabidopsis Transcriptome MicroArray**   
Arabidopsis gene sequence tags   
[database](http://www.catma.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/427)

**CAZy**   
Carbohydrate-Active Enzymes database   
[database](http://www.cazy.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1211)

**cBARBEL** Jianguo Lu 1, Eric Peatman 1, Qing Yang 2, Shaolin Wang 1, Zhiliang Hu 3, James Reecy 3, Huseyin Kucuktas 1 and Zhanjiang Liu 1   
Catfish genome database   
[database](http://www.catfishgenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1303)

**CC+**   
A resource for elucidating sequence-to-structure relationships for coiled-coil folding and assembly   
[database](http://coiledcoils.chm.bris.ac.uk/ccplus/search/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1215)

**CCDB** Subhash M. Agarwal, Dhwani Raghav, Harinder Singh, and G.P.S. Raghava   
Cervical cancer gene database   
[database](http://crdd.osdd.net/raghava/ccdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1403)

**CCDB - The CyberCell Database**   
*E. coli* database at U. Alberta   
[database](http://redpoll.pharmacy.ualberta.ca/CCDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/428)

**CCDS** Pruitt K.1, Ashurst J.3, Maglott D.1, Diekhans M.2, Ostell J.1, Haussler D.2, Birney E.4, Searles S.3, Hubbard T.3 and Durbin R.3   
Consensus set of annotated full-length human protein-coding regions   
[database](http://www.ncbi.nlm.nih.gov/CCDS/)  [summary](http://www.oxfordjournals.org/nar/database/summary/911)

**ccPDB** Gajendra Raghava   
Compilation and Creation of datasets from Protein Data Bank   
[database](http://crdd.osdd.net/raghava/ccpdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1490)

**CCSD - Complex Carbohydrate Structure Database (CarbBank)**   
Complex carbohydrate structure database   
[database](http://www.glycome-db.org/getDownloadPage.action?page=carbbank)  [summary](http://www.oxfordjournals.org/nar/database/summary/429)

**CDD** Marchler-Bauer, A., Panchenko, A.R., Shoemaker, B.A., Thiessen, P.A., Geer, L.Y., Bryant, S.H.   
Curated alignments of protein domains from Pfam, SMART and COG databases   
[database](http://www.ncbi.nlm.nih.gov/Structure/cdd/cdd.shtml)  [summary](http://www.oxfordjournals.org/nar/database/summary/204)

**CDDB** Do-Nyun Kim, Josiah Altschuler, Campbell Strong, GaÃ«l McGill, and Mark Bathe   
Conformational Dynamics of proteins and protein assemblies   
[database](http://www.cdyn.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1404)

**CE**   
Combinatorial Extension method to compute and review 3D protein structure alignments   
[database](http://cl.sdsc.edu/ce.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/259)

**CEBS**   
Database of toxicogenomics, microarray and proteomics data   
[database](http://cebs.niehs.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1055)

**Cell Image Library** David N. Orloff1,\*, Janet H. Iwasa2, Maryann E. Martone1, Mark H. Ellisman1 and Caroline M. Kane3   
Images, videos, and animations of various cell types from diverse organisms   
[database](http://www.cellimagelibrary.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1649)

**CellCircuits** Mak H.C.1, Daly M.2, Gruebel B.2 and Ideker T.2   
Molecular network models: from pairwise molecular interactions to whole pathways   
[database](http://www.cellcircuits.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/980)

**CellLineNavigator** Markus Krupp   
A compendium of cell line expression profiles by microarray analysis   
[database](http://www.medicalgenomics.org/celllinenavigator/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1643)

**CentrosomeDB** Nogales-Cadenas, R.1, Abascal, F.2, DÃ­ez-PÃ©rez, J.2, Carazo, J.M.2, Pascual-Montano, A.1   
Human centrosomal proteins database   
[database](http://centrosome.dacya.ucm.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1267)

**Cereal Small RNA Database**   
Small RNAs expressed in rice and maize   
[database](http://sundarlab.ucdavis.edu/smrnas/)  [summary](http://www.oxfordjournals.org/nar/database/summary/982)

**CFGP** Lee, Yong-Hwan; Choi, Jaeyoung; Cheong, Kyeongchae; Jung, Kyongyong; Jeon, Jongbum; Lee, Gir-Won; Kang, Seogchan; Kim, Sangsoo; Lee, Yin-Won   
Comparative Fungal Genomics Platform   
[database](http://cfgp.riceblast.snu.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1056)

**CGED - Cancer Gene Expression Database** Kato K.1, Yamashita R.1,2, Takagi T.3, Nakai K.2   
Cancer gene expression database   
[database](http://lifesciencedb.jp/cged/)  [summary](http://www.oxfordjournals.org/nar/database/summary/431)

**CharProtDB** Ramana Madupu   
Experimentally Characterized Protein annotations   
[database](http://www.jcvi.org/charprotdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1468)

**ChEBI - Chemical Entities of Biological Interest** de Matos P.1, Ennis M.1, Zbinden M.1, McNaught A.1, AlcÃ¡ntara R.1, Darsow M.1, Guedj M.1,2, Ashburner M.3 and Degtyarenko K.1   
Small molecules, atoms, ions and radicals of biological interest   
[database](http://www.ebi.ac.uk/chebi/)  [summary](http://www.oxfordjournals.org/nar/database/summary/646)

**ChemBank** Ferraiolo P.1, Bodycombe N.E.1, Brudz S.E.1, Clemons P.A.1, Eliasof S.1, George G.A.1, Happ M.P.1, Harris, E.1, Lach A.D.1, Muhlich, J.L. 1, Seiler K.P.1, Selfors L.M.1, Serrano M.A.1, Sullivan J.P.1, Sulthan N.B.1, Tevelev, A.1, Tolliday N.1 and Schreiber S.L.1,2   
Structures and biological activities of small organic molecules   
[database](http://chembank.broadinstitute.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1024)

**ChEMBL** Anna Gaulton   
EMBL's database of bioactive drug-like small molecules   
[database](https://www.ebi.ac.uk/chembldb)  [summary](http://www.oxfordjournals.org/nar/database/summary/1548)

**ChemDB** Chen J.H., Swamidass S.J., Dou Y., Linstead E. and Baldi P.   
3D structures and properties of small molecules   
[database](http://cdb.ics.uci.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1023)

**ChemProt** Olivier Taboureau 1, Sonny Kim Nielsen 1, Karine Audouze 1, Nils Weinhold 1, Daniel Edsga„rd 1, Francisco S. Roque 1, Irene Kouskoumvekaki 1, Alina Bora 2, Ramona Curpan 2, Thomas Skøt Jensen 1, Søren Brunak 1 and Tudor I. Oprea 1,3   
Disease Chemical Biology Database   
[database](http://www.cbs.dtu.dk/services/ChemProt/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1304)

**ChickVD** Wang J.1, He X.2,3, Ruan J.2,3, Dai M.2, Chen J.2, Zhang Y.1,2, Hu Y.2, Ye C.2, Li S.2, Cong L.2, Fang L.2, Liu B.2, Li S.1,2, Wang J.2, Burt D.W.4, Wong G.K.-S.2,5, Yu J.2,6, Yang H.2,6 and Wang J.1,2,7,8   
Sequence variation in the chicken genome   
[database](http://chicken.genomics.org.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/647)

**ChimerDB** Kim N.1, Kim P.1, Nam S.1, Shin S.2 and Lee S.1   
Chimeric (fusion) sequences in human, rat and mouse   
[database](http://genome.ewha.ac.kr/ChimerDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/803)

**ChIPBase** Liang-Hu Qu   
Decoding transcriptional regulation of lncRNA and microRNA genes from ChIP-Seq data   
[database](http://deepbase.sysu.edu.cn/chipbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1594)

**ChiTaRS** Milana Frenkel-Morgenstern   
Chimeric RNAs of two or more different transcripts   
[database](http://chimerasrch.bioinfo.cnio.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1589)

**Chloroplast Genome Database** Cui L., Veeraraghavan N., Richter A., Wall K., Jansen R.K., Leebens-Mack J., Makalowska I. and dePamphilis C.W.   
Chloroplast genome database   
[database](http://chloroplast.cbio.psu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/804)

**ChromDB**   
Chromatin-associated proteins in a broad range of organisms   
[database](http://www.chromdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1057)

**Ciliate IES-MDS database**   
Macro- and micronuclear genes in spirotrichous ciliates   
[database](http://oxytricha.princeton.edu/dimorphism/database.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/649)

**CIPRO** Endo, T.   
An integrated protein database of the ascidian *Ciona intestinalis*   
[database](http://cipro.ibio.jp/2.5)  [summary](http://www.oxfordjournals.org/nar/database/summary/1179)

**CircaDB** Angel Pizarro   
A database of circadian expression profiles   
[database](http://bioinf.itmat.upenn.edu/circa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1645)

**cisRED** Robertson A.G.1, Bilenky M.1, Lin K.1, He A.1, Yuen, W.1, Dagpinar M.1, Varhol R.1, Teague K.1, Griffith O.L.1, Zhang X.1, Pan, Y.1, Hassel M.1, Sleumer M.C.1, Pan, W.1, Pleasance E.D.1, Chuang, M.1, Hao H.1, Li Y.Y.1, Robertson N.1, Fjell C.1, Li B.1, Montgomery S.B.1, Astakhova T.1, Zhou J.2, Sander J.2, Siddiqui A.S.1 and Jones S.J.M.1   
Phylogenetically conserved regulatory DNA sequence motifs   
[database](http://www.cisred.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/805)

**CleanEST**   
Database server for cleansed EST libraries   
[database](http://cleanest.kobic.re.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1201)

**CleanEx**   
Expression reference database, linking heterogeneous expression data to facilitate cross-dataset comparisons   
[database](http://cleanex.vital-it.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/432)

**ClinVar** Maglott D., Chitipiralla S., Church D., Feolo M., Garner J., Jang W., Lee J., Maiti R., Ostell J., Phan L., Riley G., Rubinstein W.S., Shao D., Sherry S., Sirotkin K., Tully R., Villamarin R., and Ward M.   
ClinVaR is an archive centralizing the management of human sequence variation with clinical significance.   
[database](http://www.ncbi.nlm.nih.gov/clinvar/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1570)

**CLIPZ** Mohsen Khorshid 1, Christoph Rodak 1 and Mihaela Zavolan 1   
Experimentally-determined binding sites of RNA-binding proteins   
[database](http://www.clipz.unibas.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1305)

**CloneDB** Valerie Schneider   
Clones and libraries: sequence data, map positions and distributor information   
[database](http://www.ncbi.nlm.nih.gov/clone/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1661)

**ClusterMine360** Kyle Conway   
Microbial PKS/NRPS Biosynthesis   
[database](http://www.sigma54.ca/microbialclusters/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1627)

**CluSTr** Petryszak, R., Binns, D., Fleischmann, W., Kersey, P., Apweiler, R.   
Clusters of UniProt Knowledgebase and IPI proteins   
[database](http://www.ebi.ac.uk/clustr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/205)

**CMGSDB**   
Computational models for gene silencing in C. elegans   
[database](https://bioinformatics.cs.vt.edu/cmgs/CMGSDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1058)

**CnidBase**   
Cnidarian evolution and gene expression database   
[database](http://cnidbase.org/index.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/434)

**COG - Clusters of Orthologous Groups of proteins**   
Protein families from complete microbial genomes   
[database](http://www.ncbi.nlm.nih.gov/COG/)  [summary](http://www.oxfordjournals.org/nar/database/summary/7)

**COG - Eukaryotic Orthologous Groups of proteins** Tatusov, R.L., Natale, D.A., Fedorova, N.D., Jackson, J., Jacobs, A., Krylov, D.M., Mekhedov, S.L., Nikolskaya, A.N., Rao, B.S., Wolf, Y.I., Aravind, L., Lanczycki, C., Masumder, R., Sreekumar, K., Vasudevan, S., Walker, D.R., Tatusova, T.A., Yao, K., Yin, J., Koonin, E.V.   
Protein families from complete eukaryotic genomes   
[database](http://www.ncbi.nlm.nih.gov/COG/)  [summary](http://www.oxfordjournals.org/nar/database/summary/400)

**COGEME Phytopathogenic Fungi and Oomycete EST Database** Soanes, D.M., Talbot, N.J.   
Phytopathogenic fungi and oomycete EST database   
[database](http://cogeme.ex.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/435)

**CoGenT++**   
Complete Genome Tracking database   
[database](http://cgg.ebi.ac.uk/cgg/cpp_sitemap.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/650)

**coliBase**   
A database for *E. coli*, *Salmonella* and *Shigella*   
[database](http://colibase.bham.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/436)

**Colibri**   
*E. coli* genome database at Institut Pasteur   
[database](http://genolist.pasteur.fr/Colibri/)  [summary](http://www.oxfordjournals.org/nar/database/summary/437)

**ColiSNP**   
Mapping non-synonymous SNPs on protein structures   
[database](http://yayoi.kansai.jaea.go.jp/colisnp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1059)

**Collagen Mutation Database** Dalgleish, R.   
Human type I and type III collagen gene mutations   
[database](http://www.le.ac.uk/genetics/collagen/)  [summary](http://www.oxfordjournals.org/nar/database/summary/137)

**COLT-Cancer** Jason Moffar   
Essential gene profiles in human cancer cell lines   
[database](http://colt.ccbr.utoronto.ca/cancer)  [summary](http://www.oxfordjournals.org/nar/database/summary/1532)

**Columba** Rother K.1, Triß S.2, MÜueller H.2, Preißner R.1, Steinke T.3, Leser U.2, FrÖmmel C.1   
Annotation of various protein structures   
[database](http://www.columba-db.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/883)

**COMBREX**   
Computational Bridge to Experiments   
[database](http://combrex.bu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1405)

**COMe - Co-Ordination of Metals etc.** Degtyarenko, K., Contrino, S.   
Classification of bioinorganic proteins (metalloproteins and some other complex proteins)   
[database](http://www.flymine.org/come/)  [summary](http://www.oxfordjournals.org/nar/database/summary/438)

**Comparasite** Watanabe J.1, Wakaguri H.2, Sasaki M.2, Suzuki Y.2 and Sugano S.2   
A database for comparative study of parasite cDNAs   
[database](http://comparasite.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/983)

**Comparative Genometrics** Roten C.-A.H.1, Gamba P.2, Barblan J.-L.1 and Karamata D.1   
DNA walks, nucleotide skews and other biometric measures of prokaryotic genomes   
[database](http://www.unil.ch/comparativegenometrics/)  [summary](http://www.oxfordjournals.org/nar/database/summary/884)

**ComSin** Michail Yu. Lobanov, Benjamin A. Shoemaker, Sergiy O. Garbuzynskiy, Jessica H. Fong, Anna R. Panchenko, and Oxana V. Galzitskaya   
Protein structures in bound and unbound states   
[database](http://antares.protres.ru/comsin/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1354)

**ConoServer** David Craik   
Sequence and structures of peptides expressed by marine cone snails   
[database](http://www.conoserver.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1473)

**ConsensusPathDB** Kamburov, Atanas (contact); Stelzl, Ulrich; Lehrach, Hans; Herwig, Ralf   
Database for integration of human functional interactions   
[database](http://cpdb.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1227)

**ConSurf-DB**   
Sequence conservation profiles of the proteins of known structures   
[database](http://consurfdb.tau.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1269)

**CoPS**   
Comprehensive peptide signature database   
[database](http://cops.igib.res.in/copsv2/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/771)

**CORG - A database for COmparative Regulatory Genomics** Dieterich, C., Wang, H., Rateitschak, K., Luz, H., Vingron, M.   
Conserved non-coding sequence blocks   
[database](http://corg.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/337)

**CORUM**   
Experimentally verified mammalian protein complexes   
[database](http://mips.gsf.de/genre/proj/corum/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1060)

**CoryneRegNet** Baumbach, Jan; Pauling, Josch; RÃ¶ttger, Richard; Tauch, Andreas; Azevedo, Vasco   
Corynebacterial transcription factors and regulatory networks   
[database](http://coryneregnet.cebitec.uni-bielefeld.de/v6/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1167)

**COSMIC - Catalogue Of Somatic Mutations In Cancer**   
Sequence data, samples and publications   
[database](http://www.sanger.ac.uk/genetics/CGP/cosmic/)  [summary](http://www.oxfordjournals.org/nar/database/summary/651)

**CoVDB**   
Coronavirus genes and genomes   
[database](http://covdb.microbiology.hku.hk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1061)

**COXPRESdb** Kinoshita, Kengo; Obayashi, Takeshi; Okamura, Yasunobu; Ito, Satoshi; Tadaka, Shu; Motoike, Ikuko   
Coexpressed genes and networks in human and mouse   
[database](http://coxpresdb.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1062)

**CPDB**   
The circular permutation database   
[database](http://sarst.life.nthu.edu.tw/cpdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1217)

**CPLA** Zexian Liu 1, Jun Cao 1, Xinjiao Gao 1, Yanhong Zhou 2, Longping Wen 1, Xiangjiao Yang 3, Xuebiao Yao1, Jian Ren 4 and Yu Xue 2   
Integrated database of protein lysine acetylation   
[database](http://cpla.biocuckoo.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1306)

**cpnDB** Hill, J.E.1, Penny, S.L.2, Goh, S.H.3 and Hemmingsen, S.M.4   
Chaperonin database   
[database](http://www.oxfordjournals.org/nar/database/a/www.cpndb.ca)  [summary](http://www.oxfordjournals.org/nar/database/summary/923)

**CR-EST - Crop ESTs** C. KÜnne, M. Lange, T. Funke, H. Miehe, T. Thiel, I. Grosse, and U. Scholz   
Barley, wheat, pea, and potato ESTs   
[database](http://pgrc.ipk-gatersleben.de/cr-est/)  [summary](http://www.oxfordjournals.org/nar/database/summary/624)

**Cre Transgenic Database** Nagy, A.   
Cre transgenic mouse lines   
[database](http://www.mshri.on.ca/nagy/)  [summary](http://www.oxfordjournals.org/nar/database/summary/286)

**CREMOFAC** Agrawal S.1,3, Chetan Kumar C.1 and M.R.S. Rao1,2   
Chromatin remodeling factors   
[database](http://www.jncasr.ac.in/cremofac/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1154)

**CryptoDB - *Cryptosporidium* database**   
*Cryptosporidium parvum* genome database   
[database](http://cryptodb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/439)

**Crystallography Open Database** Saulius Grazulis   
Crystal structures of small molecules   
[database](http://www.crystallography.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1483)

**CSA - Catalytic Site Atlas**   
Enzyme active sites and catalytic residues in enzymes of known 3D structure   
[database](http://www.ebi.ac.uk/thornton-srv/databases/CSA/)  [summary](http://www.oxfordjournals.org/nar/database/summary/440)

**CSD - Cambridge Structural Database**   
Crystal structure information for organic and metal organic compounds.   
[database](http://www.ccdc.cam.ac.uk/prods/csd/csd.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/261)

**CSDBase - Cold Shock Domain database** Weber, M.H.W., Doll, N., Marahiel, M.A.   
Cold shock domain-containing proteins   
[database](http://www.molecular-systems.org/csdbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/364)

**CSS - Carbohydrate Structure Suite**   
Carbohydrate 3D structures derived from the PDB   
[database](http://www.glycosciences.de/tools/)  [summary](http://www.oxfordjournals.org/nar/database/summary/652)

**CTCF Binding Site Database**   
Experimentally identified and predicted CTCF binding sties   
[database](http://insulatordb.uthsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1063)

**CTD - Comparative Toxicogenomics Database** Davis, A.P.1, Murphy, C.1, Johnson, R.2, Lay, J.2, Lennon-Hopkins, K.2, Saraceni-Richards, C.2, Sciaky, D.2, King, B.2, Rosenstein, M.2, Wiegers, T.1, and Mattingly, C.1   
A knowledgebase for curated chemical-gene-disease networks   
[database](http://ctdbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1188)

**CTDatabase**   
Cancer-Testis Antigens database   
[database](http://www.cta.lncc.br/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1213)

**CTGA** Tadmouri G.O.   
A database for genetic disorders in Arabs   
[database](http://www.cags.org.ae/)  [summary](http://www.oxfordjournals.org/nar/database/summary/793)

**Cube-DB** Ivana Mihalek   
Functional divergence in human protein families   
[database](http://epsf.bmad.bii.a-star.edu.sg/cube/db/html/home.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1491)

**CutDB** Igarashi Y., Eroshkin A., Gramatikova S., Gramatikoff K., Ying Z., Smith J.W., Osterman, A.L. and Godzik, A.  
Community annotation resource for proteases, their substrates and cleavage sites   
[database](http://cutdb.burnham.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/946)

**CUTG - Codon Usage Tabulated from GenBank**   
Codon usage tables   
[database](http://www.kazusa.or.jp/codon/)  [summary](http://www.oxfordjournals.org/nar/database/summary/30)

**CuticleDB**   
Structural proteins of Arthropod cuticle   
[database](http://bioinformatics.biol.uoa.gr/cuticleDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/653)

**CyanoBase**   
Genomes of cyanobacteria and other photosynthetic bacteria   
[database](http://genome.kazusa.or.jp/cyanobase)  [summary](http://www.oxfordjournals.org/nar/database/summary/68)

**Cyanolyase** Frederic Partensky   
Sequences and motifs of the phycobilin lyase protein family   
[database](http://cyanolyase.genouest.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1606)

**Cybase** Mulvenna J.P., Wang C.K.L. and Craik D.J.   
Proteins with cyclic backbones   
[database](http://www.cybase.org.au/)  [summary](http://www.oxfordjournals.org/nar/database/summary/806)

**CycleBase**   
Gene expression profiles from cell-cycle microarray studies   
[database](http://www.cyclebase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1064)

**Cyclonet** Kolpakov F.1,2, Poroikov V.3, Sharipov R.1,2,4, Kondrakhin Y1,2, Zakharov A.3, Lagunin A.3, Milanesi L.5, and Kel A.6   
A database on cell cycle regulation   
[database](http://cyclonet.biouml.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/794)

**CYGD - Comprehensive Yeast Genome Database**   
MIPS database of yeast genes and proteins   
[database](http://mips.gsf.de/genre/proj/yeast/index.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/441)

**CyMoBase** Odronitz F. and Kollmar M.   
Database for cytoskeletal and motor proteins   
[database](http://www.cymobase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1168)

**Cypriot national mutation database**   
Disease mutations in the Cypriot population   
[database](http://www.goldenhelix.org/cypriot/)  [summary](http://www.oxfordjournals.org/nar/database/summary/654)

**D-HaploDB** Higasa K., Miyatake K., Kukita Y., Tahira T. and Hayashi K.   
Definitive haplotype database   
[database](http://orca.gen.kyushu-u.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/966)

**D2P2** Julian Gough   
Database of Disordered Protein Predictions   
[database](http://d2p2.pro/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1613)

**Dali database** L. Holm   
Fold classification based on structure-structure alignment of proteins   
[database](http://ekhidna.biocenter.helsinki.fi/dali/start/)  [summary](http://www.oxfordjournals.org/nar/database/summary/442)

**DAMPD** Bajic, Vladimir B2; Sundararajan, Vijayaraghava1; Gabere, Musa1; Pretorius, Ashley1; Adam, Saleem1; Christoffels, Alan1; LehvÃ¤slaiho, Minna2; Archer, John A. C.2   
Dragon Antimicrobial Peptide Database   
[database](http://apps.sanbi.ac.za/dampd/Link.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/407)

**DAnCER** Andrei L. Turinsky 1, Brian Turner 1, Rosanne C. Borja 1, James A. Gleeson 1, Michael Heath 1, Shuye Pu 1, Thomas Switzer 1, Dong Dong 2,3, Yunchen Gong 2,3, Tuan On 1,4, Xuejian Xiong 1, Andrew Emili 2,3,4, Jack Greenblatt 2,3,4, John Parkinson 1,4,5,, Zhaolei Zhang 2,3,4 and Shoshana J. Wodak 1,4,5   
Disease-Annotated Chromatin Epigenetics Resource   
[database](http://wodaklab.org/dancer/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1307)

**DARC** Roland Beckman   
Database for Aligned Ribosomal Complexes   
[database](http://darcsite.genzentrum.lmu.de/darc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1492)

**DARNED** Pavel Baranov   
Database of RNA Editing   
[database](http://beamish.ucc.ie/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1673)

**DART - Drug Adverse Reaction Targets**   
Drug adverse reaction target database   
[database](http://xin.cz3.nus.edu.sg/group/drt/dart.asp)  [summary](http://www.oxfordjournals.org/nar/database/summary/443)

**Database for Bacterial Group II Introns** Candales, Manuel; Duong, Adrian; Hood, Keyar; Li, Teng; Neufeld, Ryan; Sun, Runda; McNeil, Bonnie; Wu, Li; Jarding, Ashley; Zimmerly, Stev   
Database for mobile group II introns   
[database](http://www.fp.ucalgary.ca/group2introns/)  [summary](http://www.oxfordjournals.org/nar/database/summary/378)

**Database of Genomic Variants** Feuk L., Zhang J., Khaja R., MacDonald J.R., Duggan G. and Scherer S.W.   
Human genomic variants: frequency, segmental duplications and genome assembly gaps   
[database](http://projects.tcag.ca/variation/)  [summary](http://www.oxfordjournals.org/nar/database/summary/655)

**Database of Genomic Variants archive (DGVa)** Lappalainen I, Skipper L, Maguire M, Spalding D, Flicek P   
The Database of Genomic Variants archive (DGVa) is a repository that provides archiving, accessioning and distribution of publicly available genomic structural variants.   
[database](http://www.ebi.ac.uk/dgva/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1569)

**Database of Germline p53 Mutations**   
Mutations in human tumor and cell line p53 gene   
[database](http://www.lf2.cuni.cz/projects/germline_mut_p53.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/126)

**DATF** Anyuan Guo   
Database of *Arabidopsis* transcription factors   
[database](http://datf.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/656)

**DB-PABP**   
Database of experimentally characterized polyanion-binding proteins   
[database](http://ppa.bcf.ku.edu/DB_PABP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1065)

**DBAli** Marti-Renom M.A.1, Pieper U.2, Eswar N.2, Webb B.2, Madhusudhan M.S.2, and Sali A.2   
Pairwise and multiple structure alignments   
[database](http://www.dbali.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1169)

**DBASS5/3** Emanuele Buratti 1, Martin Chivers 2, Gyulin Hwang 2 and Igor Vorechovsky 2   
Database of Aberrant Splice Sites: sequences flanking cryptic and de novo 3' and 5' splice sites   
[database](http://www.dbass.org.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1308)

**dbCRID** Fanlou Kong, Jing Zhu, Jun Wu, Jianjian Peng, Ying Wang, Qing Wang, Songbin Fu, Li-Lian Yuan, and Tongbin Li   
Database of Chromosomal Rearrangements In Diseases   
[database](http://dbcrid.biolead.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1406)

**DBD** Kummerfeld S.K. and Teichmann S.A.   
Transcription factor prediction database   
[database](http://www.transcriptionfactor.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/807)

**dbDEPC** Xie, Lu; He, Ying; Zhang, Menghuan; Ju, Yuanhu; Yu, Zhonghao; Lv, Daqing; Sun, Han; Yuan, Weilan; He, Hei; Zhang, Jianshe; Li, Hong ,; Li, Jing ,; Wang-Sattler, Rui; Li, Yixue; Zhang, Guoqing   
Differentially Expressed Proteins in Human Cancer   
[database](http://lifecenter.sgst.cn/dbdepc/index.do)  [summary](http://www.oxfordjournals.org/nar/database/summary/1374)

**dbDNV** Meng-Ru Ho, Kuo-Wang Tsai, Chun-houh Chen, and Wen-chang Lin   
Database of Duplicated-gene Nucleotide Variants   
[database](http://140.109.42.20/DNVs)  [summary](http://www.oxfordjournals.org/nar/database/summary/1407)

**dbERGEII**   
Database of experimental results on gene expression   
[database](http://globin.bx.psu.edu/dberge/)  [summary](http://www.oxfordjournals.org/nar/database/summary/657)

**DBETH** Saikat Chakrabarti   
Database for Bacterial ExoToxins for Humans   
[database](http://www.hpppi.iicb.res.in/btox)  [summary](http://www.oxfordjournals.org/nar/database/summary/1505)

**dbLEP** Dou L.1, Wang Y.2, Wu S.1, Wang X.2, Mao Y.2, Li L.2, Tang L.1, Wang X.1, Zhao D.2, He F.1 and Zhu Y.1  
Liver proteome expression profiles   
[database](http://dblep.hupo.org.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1170)

**dbMHC** Helmberg W., Feolo M.   
Genetic and clinical database of the human MHC   
[database](http://www.ncbi.nlm.nih.gov/gv/mhc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/604)

**dbPTM**   
Post-translational modifications of proteins   
[database](http://dbptm.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/885)

**dbQSNP** Tahira, T., Higasa, K., Kukita, Y., Baba, S., Akiyama, J., Miura, K., Hayashi, K.   
Quantification of SNP allele frequencies   
[database](http://qsnp.gen.kyushu-u.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/595)

**dbRES** Tao He, Pufeng Du and Yanda Li   
A database of known RNA editing sites   
[database](http://bioinfo.au.tsinghua.edu.cn/dbRES/)  [summary](http://www.oxfordjournals.org/nar/database/summary/984)

**dbRIP** Song L.1, Wang J.1, Liang P.1, Grover D.2, Batzer M.A.2   
Retrotransposon insertion polymorphisms in human   
[database](http://dbrip.brocku.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/886)

**dbSNP**   
Database of single nucleotide polymorphisms   
[database](http://www.ncbi.nlm.nih.gov/SNP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/127)

**dbSNP-Q** Scott F. Saccone, Jiaxi Quan, Gaurang Mehta, Raphael Bolze, Prasanth Thomas, Ewa Deelman, Jay A. Tischfield, and John P. Rice   
GWAS prioritization tool   
[database](http://cgsmd.isi.edu/dbsnpq)  [summary](http://www.oxfordjournals.org/nar/database/summary/1408)

**DBSubLoc - Database of protein Subcellular Localization**   
Database of protein subcellular localization   
[database](http://www.bioinfo.tsinghua.edu.cn/dbsubloc.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/444)

**DBTBS** Makita Y.1, De Hoon M.J.L.2 and Nakai, K.3   
*B. subtilis* binding factors and promoters   
[database](http://dbtbs.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/31)

**DBTGR** Sierro N.1, Kusakabe T.2, Park K-J.1, Yamashita R.1, Kinoshita K.1,3 and Nakai K.1   
A database of tunicate (*Ciona*) gene regulation   
[database](http://dbtgr.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/808)

**DBTSS** Yamashita R.1, Suzuki, Y.2, Wakakguri, H.2, Nakai, K.1, Sugano, S.2   
Database of transcriptional start sites   
[database](http://dbtss.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/591)

**dbVar** Deanna Church   
Structural variation in chromosomes: inversions, translocations, insertions and deletions   
[database](http://www.ncbi.nlm.nih.gov/dbvar)  [summary](http://www.oxfordjournals.org/nar/database/summary/1642)

**DCCP - Database of Copper-Chelating Proteins**   
Database of copper-chelating proteins   
[database](http://sdbi.sdut.edu.cn/DCCP/en/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/658)

**dcGO** Julian Gough   
domain-centric Gene Ontology   
[database](http://supfam.org/SUPERFAMILY/dcGO)  [summary](http://www.oxfordjournals.org/nar/database/summary/1616)

**DDBJ - DNA Data Bank of Japan** Ikeo, K.1, Ogasawara, O.1, Fukuchi, S.1, Suzuki, Y.1, Sumiyama, K. 2, Saitou, N.2, Okubo, K.1, Sugawara, H.1, Gojobori, T.1, and Tateno, Y.1)   
Annotated collection of all publicly available nucleotide and protein sequences   
[database](http://www.ddbj.nig.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1)

**DDIB - Database of Domain Interactions and Binding** Yu, X.J.1, Chen, M.2, Lin, J.C.1, Li, X.3, Shi, T.L.1, He, W.Z.2 and Li, Y.X.1,2   
Database of domain interactions and binding   
[database](http://lifecenter.sgst.cn/ddib/)  [summary](http://www.oxfordjournals.org/nar/database/summary/659)

**DDOC**   
Functional context of genes implicated in ovarian cancer   
[database](http://apps.sanbi.ac.za/ddoc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1190)

**DDPC** Monique Maqungo 1, Mandeep Kaur 2, Samuel K. Kwofie 1, Aleksandar Radovanovic 2, Ulf Schaefer 2, Sebastian Schmeier 2, Ekow Oppon 1, Alan Christoffels 1 and Vladimir B. Bajic 2   
Database of Genes Associated with Prostate Cancer   
[database](http://apps.sanbi.ac.za/ddpc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1309)

**Death Domain database** Hyun Ho Park   
Protein interaction data for Death Domain superfamily   
[database](http://www.deathdomain.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1474)

**Decoys-R-Us** Ram Samudrala and Michael Levitt   
Computer-generated protein conformations based on sequence data   
[database](http://dd.compbio.washington.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/385)

**deepBase** Jian-Hua Yang, Peng Shao, Hui Zhou, Yue-Qin Chen, and Liang-Hu Qu   
A platform for mining and visualization of next generation sequencing data   
[database](http://deepbase.sysu.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1344)

**Defensins Knowledgebase** Seebah S.1, Anita S.2, Zhuo S.W.2, Yong H.C.2, Chua H.2, Chuon D.2, Beuerman R.1, Verma C.S.2   
Antimicrobial peptides of the defensin family   
[database](http://defensins.bii.a-star.edu.sg/)  [summary](http://www.oxfordjournals.org/nar/database/summary/945)

**DEG - Database of Essential Genes**   
Database of essential genes from bacteria and yeast   
[database](http://tubic.tju.edu.cn/deg/)  [summary](http://www.oxfordjournals.org/nar/database/summary/445)

**Degradome Database**   
Proteases, protease inhibitors and protease mutations in human, chimpanzee, mouse, and rat   
[database](http://degradome.uniovi.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1187)

**Déjà vu** Errami, M., Trusty, D., Zhaohui S. and Garner H.R.   
Déjà vu is a manually curated repository of duplicate citations found in s   
[database](http://spore.vbi.vt.edu/dejavu/duplicate/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1171)

**Dfam** Rob Finn   
Human DNA repeat families   
[database](http://dfam.janelia.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1585)

**DG-CST**   
Disease gene conserved sequence tags   
[database](http://dgcst.ceinge.unina.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/661)

**DGA** Warren Kibbe   
Disease and Gene Annotations database   
[database](http://dga.nubic.northwestern.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1617)

**DIANA-LncBase** Artemis Hatzigeorgiou   
No description supplied   
[database](http://www.microrna.gr/LncBase)  [summary](http://www.oxfordjournals.org/nar/database/summary/1598)

**diArk** Odronitz F., Hellkamp M. and Kollmar M.   
Database of eukaryotic sequencing projects   
[database](http://www.diark.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1172)

**Diatom EST Database**   
ESTs from two diatom algae, *Thalassiosira pseudonana* and *Phaeodactylum tricornutum*   
[database](http://www.biologie.ens.fr/diatomics/EST/)  [summary](http://www.oxfordjournals.org/nar/database/summary/662)

**DictyBase**   
Genome information, literature and experimental resources for *Dictyostelium discoideum*   
[database](http://dictybase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/446)

**DIGIT** Anna Tramontano   
Database of ImmunoGlobulin sequences and Integrated Tools   
[database](http://www.biocomputing.it/digit4/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1556)

**DIMA**   
Domain interaction map: experimental and predicted protein domain interactions   
[database](http://webclu.bio.wzw.tum.de/dima/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1066)

**DIP - Database of Interacting Proteins** Xenarios, I., Salwinski, L., Xiaoqun, JD., Higney, P., Kim, SM., Eisenberg, D.   
Experimentally-determined protein-protein interactions   
[database](http://dip.doe-mbi.ucla.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/104)

**DiProDB**   
Database for dinucleotide properties   
[database](http://diprodb.fli-leibniz.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1191)

**Disease Ontology** Lynn Schriml   
Ontology for a variety of human diseases   
[database](http://diseaseontology.sf.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1530)

**DiseaseMeth** Yan Zhang   
Human disease methylation database   
[database](http://202.97.205.78/diseasemeth)  [summary](http://www.oxfordjournals.org/nar/database/summary/1539)

**DisProt - Database of Protein Disorder**   
Information about proteins that lack fixed 3D structure in their native states   
[database](http://www.dabi.temple.edu/disprot/)  [summary](http://www.oxfordjournals.org/nar/database/summary/447)

**DistiLD** Lars Juhl Jensen   
Diseases and Traits In Linkage Disequilibrium blocks   
[database](http://distild.jensenlab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1540)

**DNAreplication.net**   
Database for the eukaryotic DNA replication community   
[database](http://www.dnareplication.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1238)

**DNASU Plasmid Repository** Catherine Y. Seiler1, Jin Park1, Amit Sharma1, Preston Hunter1, Padmini Surapaneni1, Casey Sedillo1, James Field2, Rhys Algar2, Andrea Price1, Jason Steel1, Andrea Throop1, Michael Fiacco1, and Joshua LaBaer1   
DNASU Plasmid Repository, Protein Structure Initiative Material Repository (PSI-MR)   
[database](http://dnasu.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1295)

**DNAtraffic** Joanna Krwawicz   
DNA dynamics during the cell cycle   
[database](http://dnatraffic.ibb.waw.pl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1557)

**DoBISCUIT** Natsuko Ichikawa   
Database Of BIoSynthesis clusters CUrated and InTegrated   
[database](http://www.bio.nite.go.jp/pks/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1607)

**Dockground**   
Protein-protein interfaces in co-crystallized protein structures   
[database](http://dockground.bioinformatics.ku.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1155)

**DOMINE**   
Known and predicted protein domain interactions observed in PDB entries,   
[database](http://domine.utdallas.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1067)

**DOMINO**   
Domain peptide interactions   
[database](http://mint.bio.uniroma2.it/domino/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1033)

**DomIns - Database of Domain Insertions** Aroul-Selvam R.1 and Sasidharan R.2   
Domain insertions in known protein structures   
[database](http://www.domins.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/448)

**DOMMINO** Dmitry Korkin   
Database of MacroMolecular INteractions   
[database](http://dommino.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1493)

**DoOP - Databases of Orthologous Promoters** Barta E.1, SebestyÉn E.1, PÁlfy T.B.1, TÓth G.1, Ortutay C.P.1and Patthy L.2   
Clusters of orthologous upstream sequences from chordates and plants   
[database](http://doop.abc.hu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/663)

**DOOR**   
Predicted operons in bacterial and archaeal genomes   
[database](http://csbl1.bmb.uga.edu/OperonDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1250)

**DoriC** Chun-Ting Zhang   
DoriC regions in bacterial and archaeal genomes   
[database](http://tubic.tju.edu.cn/doric5.0/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1664)

**doRiNA** Christoph Dietrich   
Database of RNA interactions in post-transcriptional regulation   
[database](http://dorina.mdc-berlin.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1463)

**DPInteract**   
Binding sites for *E. coli* DNA-binding proteins   
[database](http://arep.med.harvard.edu/dpinteract/)  [summary](http://www.oxfordjournals.org/nar/database/summary/106)

**DPVweb** Adams M.J. and Antoniw J.F.   
Viruses of plants, fungi and protozoa   
[database](http://www.dpvweb.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/810)

**DR.VIS** Zhang Xiaoyan   
Human Disease-Related Viral Integration Sites   
[database](http://www.scbit.org/dbmi/drvis)  [summary](http://www.oxfordjournals.org/nar/database/summary/1541)

**DRASTIC**   
Database resource for analysis of signal transduction in plant cells   
[database](http://www.drastic.org.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/888)

**DRC - Database of Ribosomal Crosslinks** Baranov, P.V., Kubarenko, A.V, Gurvich, O.L., Shamolina, T.A., Brimacombe, R.   
Ribosomal crosslinking data   
[database](http://www.molgen.mpg.de/~ag_ribo/ag_brimacombe/drc/defaultlow.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/105)

**DroID - Drosophila Interactions Database** Yu J, Pacifico S., Guest G., Parrish J.R., and Finley R.L., Jr.   
Drosophila gene and protein interaction data   
[database](http://www.droidb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/928)

***Drosophila* microarray centre**   
Data and tools for *Drosophila* gene expression studies   
[database](http://www.flyarrays.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/449)

**Drosophila polymorphism database** Casillas S., Petit N. and Barbadilla A.   
Drosophila polymorphism database   
[database](http://dpdb.uab.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/774)

**DroSpeGe** Gilbert D.G.   
Drosophila Species Genomes   
[database](http://insects.eugenes.org/DroSpeGe/)  [summary](http://www.oxfordjournals.org/nar/database/summary/924)

**DRTF** Gao G, Zhong Y, Guo A, Zhu Q, Tang W, Zheng W, Gu X, Wei L, Luo J.   
Database of rice transcription factors   
[database](http://drtf.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1156)

**DrugBank**   
Combined information on drugs and drug targets   
[database](http://www.drugbank.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/811)

**DRYGin** Judice L. Y. Koh, Huiming Ding, Michael Costanzo, Anastasia Baryshnikova, Kiana Toufighi, Gary D. Bader, Chad L. Myers, Brenda J. Andrews, and Charles Boone   
Data Repository for Yeast Genetic Interaction Networks   
[database](http://drygin.ccbr.utoronto.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1367)

**DSD** Toseland C.P., McSparron H., Doytchinova I.A., and Flower D.R.   
Database of dehydrogenase enzyme stereospecificities   
[database](http://www.ddg-pharmfac.net/dsd/DSD/dehydrog.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/892)

**DSDBASE** Vinayagam, A., Pugalenthi G., Rajesh R., Sowdhamini, R.   
Database on disulfide bonds in proteins   
[database](http://caps.ncbs.res.in/dsdbase/dsdbase.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/264)

**DSMM - a Database of Simulated Molecular Motions** Finocchiaro, G.2, Wang, T.1, Hoffmann, R.1, Gonzalez, A.1, Wade, R.C.1   
Database of Simulated Molecular Motions   
[database](http://projects.villa-bosch.de/dbase/dsmm/)  [summary](http://www.oxfordjournals.org/nar/database/summary/386)

**Dynamic Proteomics** Frenkel-Morgenstern, M.1, Cohen, A.A.1 Geva-Zatorsky, N.1 Eden, E.1 Prilusky, J.2, Issaeva, I.1, Sigal, A.3, Cohen-Saidon, C.1 Liron, Y.1 Cohen, L.1 Danon, T.1 Perzov, N.1, and Alon, U.1   
Dynamics and localizations of endogenous fluorescently-tagged proteins in living human cells   
[database](http://www.weizmann.ac.il/mcb/UriAlon/DynamProt/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1293)

**DynaProt 2D** Drews, O. and Gorg, A.   
Proteome database of *Lactococcus lactis*   
[database](http://www.wzw.tum.de/proteomik/lactis/)  [summary](http://www.oxfordjournals.org/nar/database/summary/731)

**EBI BioSample Database** Mikhail Gostev   
Biological samples used as sources of sequence, structure or expression data   
[database](http://www.ebi.ac.uk/biosamples/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1458)

**EBI Enzyme Portal** Christoph Steinbeck   
Various kinds of information about enzymes: small-molecule chemistry, biochemical pathways and drug compounds   
[database](http://www.ebi.ac.uk/enzymeportal)  [summary](http://www.oxfordjournals.org/nar/database/summary/1626)

**EBI Genomes**   
EBI's collection of databases for the analysis of complete and unfinished viral, pro- and eukaryotic genomes   
[database](http://www.ebi.ac.uk/genomes/)  [summary](http://www.oxfordjournals.org/nar/database/summary/451)

**EBI patent sequences** Weizhong Li, Hamish McWilliam, Ana Richart de la Torre, Adam Grodowski, Irina Benediktovich, Mickael Goujon, Stephane Nauche, and Rodrigo Lopez   
Non-redundant databases of patent DNA and protein sequences   
[database](http://www.ebi.ac.uk/patentdata/nr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1340)

**eBLOCKS** Su Q., Lu L., Saxonov S. and Brutlag D.L.   
Highly conserved protein sequence blocks   
[database](http://motif.stanford.edu/distributions/eblocks/)  [summary](http://www.oxfordjournals.org/nar/database/summary/666)

**ECgene**   
Genome annotation for alternative splicing   
[database](http://genome.ewha.ac.kr/ECgene/)  [summary](http://www.oxfordjournals.org/nar/database/summary/667)

***Echo*BASE** Misra R.V.1, Horler R.S.P.1, Reindl W.1, Goryanin I.I.2 and Thomas G.H.1   
Post-genomic studies of *Escherichia coli*   
[database](http://www.ecoli-york.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/623)

**EciD**   
Protein interaction predictions by several different methods   
[database](http://ecid.bioinfo.cnio.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1280)

**ECMDB** David Wishart   
Escherichia coli Metabolome Database   
[database](http://www.ecmdb.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1628)

**EcoCyc** Karp, P.D.1, Collado-Vides, J.2, Paulsen, I.3, Riley, M.1, Saier, M.4, Paley, S.1, Bonavides, C.2, Gama-Castro, S.2   
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[database](http://ecocyc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/108)

**EcoGene** Rudd K.   
Genomes of cyanobacteria and other photosynthetic bacteria   
[database](http://ecogene.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/69)

**EcoliWiki** Jim Hu   
Community-based pages about non-pathogenic E. coli   
[database](http://ecoliwiki.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1562)

**ECRbase** Loots G.G. and Ovcharenko I.   
Evolutionary conserved regions, promoters, and transcription factor binding sites   
[database](http://ecrbase.dcode.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1157)

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Alternative splicing deduced from EST data   
[database](http://edas2.bioinf.fbb.msu.ru/)  [summary](http://www.oxfordjournals.org/nar/database/summary/631)

**Edinburgh Mouse (EMAP) Atlas**   
Atlas of developing mouse embryo anatomy   
[database](http://www.emouseatlas.org/Atlas/intro.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/20)

**EDULISS** Kun-Yi Hsin 1, Hugh P. Morgan 1, Steven R. Shave 1, Andrew C. Hinton 1, Paul Taylor 1 and Malcolm D. Walkinshaw 1   
EDinburgh University Ligand Selection System   
[database](http://eduliss.bch.ed.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1310)

**EENdb** Bo Zhang   
Engineered endonucleases: zinc finger nucleases and transcription activator-like effector nucleases   
[database](http://eendb.zfgenetics.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1608)

**eF-site - Electrostatic surface of Functional site**   
Electrostatic potentials and hydrophobic properties of the active sites   
[database](http://ef-site.protein.osaka-u.ac.jp/eF-site/)  [summary](http://www.oxfordjournals.org/nar/database/summary/452)

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Predicted secreted bacterial proteins   
[database](http://www.effectors.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1409)

**eggNOG** Powell, Sean1; Szklarczyk, Damian2; Trachana, Kalliopi1; Roth, Alexander3; Kuhn, Michael4; Muller, Jean5,6; Arnold, Roland7; Rattei, Thomas8; Letunic, Ivica1; Doerks, Tobias1; Jensen, Lars2; von Mering, Christian3; Bork, Peer1,9   
Evolutionary genealogy of genes: Non-supervised Orthologous Groups   
[database](http://eggnog.embl.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1068)

**EGO - Eukaryotic Gene Orthologs**   
Orthologous DNA sequences in the TIGR gene indices   
[database](http://compbio.dfci.harvard.edu/tgi/ego/)  [summary](http://www.oxfordjournals.org/nar/database/summary/453)

**EHCO** Hsu C.-N.1, Lai J.-M.2, Liu C.-H.1, Tseng H.-H.3, Lin C.-Y.4, Lin K.-T.1, Yeh H.-H.3, Sung T.-Y.1, Hsu W.-L.1, Su L.-J.4, Lee S.-A.4,5, Chen C.-H.3,4, Lee G.-C.1,5, Lee DT1,5, Shiue Y.-L.6, Yeh C.-W.7, Chang C.-H.4, Kao C.-Y.5, Huang C.-Y.F.3,4,5,8,9,10   
Encyclopedia of Hepatocellular Carcinoma genes Online   
[database](http://ehco.iis.sinica.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/889)

**EID: Exon-Intron Database** Fedorov A.1, Shepelev V.2   
*B. subtilis* binding factors and promoters   
[database](http://bpg.utoledo.edu/~afedorov/lab/eid.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/32)

**ELM - Eukaryotic Linear Motif: functional sites in eukaryotic proteins** Cathryn M. Gould, Francesca Diella, Allegra Via, PÃ¥l Puntervoll, Christine GemÃ¼nd, Sophie Chabanis-Davidson, Sushama Michael, Ahmed Sayadi, Jan Christian Bryne, Claudia Chica, Markus Seiler, Norman E. Davey, Niall Haslam, Robert J. Weatheritt, Aidan Budd, Tim Hughes, Jakub Pa?, Leszek Rychlewski, Gilles TravÃ©, Rein Aasland, Manuela Helmer-Citterich, Rune Linding, and Toby J. Gibson   
No description supplied   
[database](http://elm.eu.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1347)

**EMAGE** Richardson, L., Venkataraman, S., Stevenson, P., Yang, Y., Burton, N., Rao, J., Fisher, M., Baldock, R., Davidson, D., and Christiansen, J.   
Edinburgh Mouse Atlas gene expression database   
[database](http://www.emouseatlas.org/emage/)  [summary](http://www.oxfordjournals.org/nar/database/summary/812)

**EMDataBank** Catherine L. Lawson 1, Matthew L. Baker 2, Christoph Best 3, Chunxiao Bi 1, Matthew Dougherty2, Powei Feng 4, Glen van Ginkel 3, Batsal Devkota 1, Ingvar Lagerstedt 3, Steven J. Ludtke 2, Richard H. Newman 3, Tom J. Oldfield 3, Ian Rees 2, Gaurav Sahni 3, Raul Sala 1, Sameer Velankar 3, Joe Warren 4, John D. Westbrook 1, Kim Henrick 3, Gerard J. Kleywegt 3, Helen M. Berman 1 and Wah Chiu 2   
"3D cryo-electron microscopy maps, models and metadata"   
[database](http://emdatabank.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1311)

**EMGlib - Enhanced Microbial Genomes Library**   
Completely-sequenced prokaryotic genomes   
[database](http://pbil.univ-lyon1.fr/emglib/emglib.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/70)

**EMMA**   
European Mouse Mutant Archive   
[database](http://www.emmanet.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1370)

**ENCODE Project at UCSC** Rosenbloom, Kate1; Dreszer, Timothy1; Malladi, Venkat1; Long, Jeffrey1; Sloan, Cricket1; Raney, Brian1; Cline, Melissa1; Karolchik, Donna1; Barber, Galt1; Clawson, Hiram1; Diekhans, Mark1; Fujita, Pauline1; Goldman, Mary1; Gravell, Robert1; Kuhn, Robert1; Harte, Rachel1; Hinrichs, Angie1; Kirkup, Vanessa1; Learned, Katrina1; Maddren, Morgan1; Meyer, Laurence1; Pohl, Andy1,2; Rhead, Brooke1; Wong, Mathew1; Zweig, Ann1; Haussler, David1,3; Kent, Jim1   
Encyclopedia of DNA Elements, all functional elements in the human genome   
[database](http://genome.ucsc.edu/ENCODE)  [summary](http://www.oxfordjournals.org/nar/database/summary/985)

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Annotated information on eukaryotic genomes   
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[database](http://www.ensemblgenomes.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1297)

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Gene-centered information at NCBI   
[database](http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene)  [summary](http://www.oxfordjournals.org/nar/database/summary/668)

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NCBI's collection of databases for the analysis of complete and unfinished viral, pro- and eukaryotic genomes   
[database](http://www.ncbi.nlm.nih.gov/sites/entrez?db=genome)  [summary](http://www.oxfordjournals.org/nar/database/summary/458)

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Enzyme nomenclature and sequences   
[database](http://www.expasy.org/enzyme/)  [summary](http://www.oxfordjournals.org/nar/database/summary/109)

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[database](http://www.chem.qmul.ac.uk/iubmb/enzyme/)  [summary](http://www.oxfordjournals.org/nar/database/summary/459)

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[database](http://epd.vital-it.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/33)

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[database](http://epgd.biosino.org/EPGD/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1069)

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Database of structure-inferred antigenic epitopes   
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[database](http://equilibrator.weizmann.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1514)

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[database](http://datam.i2r.a-star.edu.sg/ergdbV2/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/460)

**ERGO-Light**   
Integrated biochemical data on 10 bacterial genomes: Publicly-available portion of the ERGO database   
[database](http://www.ergo-light.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/461)

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Ethanol-related genes in human and model organisms   
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[database](http://euhcvdb.ibcp.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1034)

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Comprehensive public domain nucleotide sequence data   
[database](http://www.ebi.ac.uk/ena/)  [summary](http://www.oxfordjournals.org/nar/database/summary/2)

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[database](http://www.psb.ugent.be/rRNA/)  [summary](http://www.oxfordjournals.org/nar/database/summary/463)

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[database](http://www.europhenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1071)

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Automatically generated protein domain families   
[database](http://www.everest.cs.huji.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/963)

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A database for evolutionary analysis of overlapping genes   
[database](http://neobio.cs.pusan.ac.kr/evog/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1266)

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Human genes and their vertebrate orthologs   
[database](http://jbirc.jbic.or.jp/hinv/evola/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1072)

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Database on exosomes, membrane vesicles of endocytic origin released by diverse cell types   
[database](http://www.exocarta.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1558)

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Families of proteins functioning in the eye   
[database](http://eyesite.cryst.bbk.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/464)

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Enzyme catalytic mechanism database   
[database](http://mbs.cbrc.jp/EzCatDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/613)

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Functional effects of various human SNPs   
[database](http://compbio.cs.queensu.ca/F-SNP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1074)

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Human transcription factor binding data from ChIP-seq   
[database](http://www.factorbook.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1595)

**FANTOM**   
Functional annotation of mouse full-length cDNA clones   
[database](http://fantom.gsc.riken.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/465)

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[database](http://cgl.imim.es/fcp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/716)

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SNPs located within promoters, UTRs, etc., of human genes   
[database](http://sysbio.kribb.re.kr:8080/fesd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/669)

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Plant pathogen *Fusarium graminearum* genome database   
[database](http://mips.helmholtz-muenchen.de/genre/proj/FGDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/815)

**FIMM**   
Functional molecular immunology data   
[database](http://research.i2r.a-star.edu.sg/fimm/)  [summary](http://www.oxfordjournals.org/nar/database/summary/150)

**FINDbase** van Baal S.1, Kaimakis P.1, Phommarinh M.2, Koumbi D.3, Cuppens H.4, Riccardino F.5, Macek M., Jr.6, Scriver C.R.2 and Patrinos G.P.1,7   
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[database](http://www.findbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1020)

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[database](http://firedb.bioinfo.cnio.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/986)

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A database for the functional analysis of the *Arabidopsis* genome   
[database](http://urgv.evry.inra.fr/projects/FLAGdb++/HTML/index.shtml)  [summary](http://www.oxfordjournals.org/nar/database/summary/128)

**FLIGHT**   
*Drosophila* phenotypes, gene expression and protein interaction data   
[database](http://flight.icr.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/816)

**FLJ Human cDNA Database** Isogai, Takao   
Annotated human full-length cDNA sequences   
[database](http://flj.lifesciencedb.jp/top/)  [summary](http://www.oxfordjournals.org/nar/database/summary/37)

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[database](http://flyatlas.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1667)

**FlyBase** McQuilton, Peter; St. Pierre, Susan; Thurmond, James   
*Drosophila* sequences and genomic information   
[database](http://flybase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/71)

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Database of the *Drosophila* nervous system   
[database](http://flybrain.neurobio.arizona.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/767)

**FlyEx**   
Atlas of the spatiotemporal expression of segmentation genes in *Drosophila*>   
[database](http://urchin.spbcas.ru/flyex/ and http://flyex.uchicago.edu/flyex/index.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/1236)

**FlyFactorSurvey** Lihua Julie Zhu 1,2, Ryan G. Christensen 3, Majid Kazemian 4, Christopher J. Hull 5, Metewo Selase Enuameh 1, Matthew D. Basciotta 1, Jessie A. Brasefield 1, Cong Zhu 1, Yuna Asriyan 1, David S. Lapointe 5, Saurabh Sinha 4,6, Scot A. Wolfe 1,7 and Michael H. Brodskyp 1,2   
Drosophila transcription factor binding specificities determined using the bacterial one-hybrid system   
[database](http://pgfe.umassmed.edu/TFDBS/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1312)

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An integrated database for Drosophila and Anopheles genomics   
[database](http://www.flymine.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/670)

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**FLYSNP**   
SNP data for Drosophila melanogaster   
[database](http://flysnp.imp.ac.at/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1073)

**FlyTED** Jun Zhao, Graham Klyne, Elizabeth Benson, Elin Gudmannsdottir, Helen White-Cooper, and David Shotton   
Drosophila Testis Gene Expression Database   
[database](http://www.fly-ted.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1379)

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Drosophila transcription factors   
[database](http://www.flytf.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1158)

**FlyTrap**   
*Drosophila* transgenic lines created using an intron protein trap strategy   
[database](http://flytrap.med.yale.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/467)

**FlyView**   
*Drosophila* development and genetics   
[database](http://flyview.uni-muenster.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/14)

**ForestTreeDB** Pavy N.1, Johnson J.2, Crow J.2, Paule C.2, Kunau T.2, MacKay J.1 and Retzel E.2   
Annotated ESTs from diverse organs of spruce, pine and poplar   
[database](http://foresttree.org/ftdb)  [summary](http://www.oxfordjournals.org/nar/database/summary/971)

**fPOP** Yan Yuan Tseng, Z. Jeffrey Chen, and Wen-Hsiung Li   
Footprinting protein functional surfaces by comparative patterns   
[database](http://pocket.uchicago.edu/fpop/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1353)

**FragmentStore** Jessica Ahmed 1, Catherine L. Worth 1, Paul Thaben 1, Christian Matzig 1, Corinna Blasse 1, Mathias Dunkel 1 and Robert Preissner 1   
"Comprehensive database of fragments linking metabolites, toxic molecules and drugs"   
[database](http://bioinformatics.charite.de/fragment_store)  [summary](http://www.oxfordjournals.org/nar/database/summary/1313)

**FREP**   
Functional repeats in mouse cDNAs   
[database](http://facts.gsc.riken.go.jp/FREP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/468)

**fRNAdb**   
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[database](http://www.ncrna.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1027)

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[database](http://fatcat.ljcrf.edu/fatcat/struct_neighbor/)  [summary](http://www.oxfordjournals.org/nar/database/summary/818)

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[database](http://fugoid.webhost.utexas.edu/introndata/main.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/782)

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Transcriptome analyses of cDNA from various protozoan parasites.   
[database](http://fullmal.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/72)

**FunCoup** Erik Sonnhammer   
Networks of Functional Coupling of proteins   
[database](http://funcoup.sbc.su.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1521)

**Fungal Genome Size Database** Kullman, B.1, Tamm, H. 1,2 and Kullman, K.3   
Genome sizes of various fungi   
[database](http://www.zbi.ee/fungal-genomesize/)  [summary](http://www.oxfordjournals.org/nar/database/summary/955)

**FungiDB** Jason Stajich   
Functional genomics of fungi   
[database](http://fungidb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1509)

**FUNPEP**   
Low-complexity peptides capable of forming amyloid plaque   
[database](http://swift.cmbi.kun.nl/swift/FUNPEP/gergo/)  [summary](http://www.oxfordjournals.org/nar/database/summary/164)

**FunShift**   
Functional divergence between the subfamilies of a protein domain family   
[database](http://funshift.cgb.ki.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/671)

**FunSimMat**   
Gene Ontology-based functional similarity values for proteins and protein families   
[database](http://funsimmat.bioinf.mpi-inf.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1075)

**FunTree** Nicholas Furnham   
Evolution of novel enzyme functions in enzyme superfamilies   
[database](http://www.ebi.ac.uk/thornton-srv/databases/FunTree/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1515)

**FusariumDB** Bongsoo Park, Jongsun Park, Kyeong-Chae Cheong, Jaeyoung Choi, Kyongyong Jung, Donghan Kim, Yong-Hwan Lee, Todd J. Ward, Kerry O'Donnell, David M. Geiser, and Seogchan Kang   
Comparative genomics of Fusarium strains   
[database](http://www.fusariumdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1410)

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Database of bacterial and archaeal gene fusion events   
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**GÉnoPlante-Info** Samson, D., Legeai, F., Karsenty, E., Reboux, S., Veyrieras, J.-B., Just, J., Barillot, E.   
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[database](http://www.genoplante.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/351)

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Genes to Cognition   
[database](http://www.genes2cognition.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1228)

**G4LDB** Qian Li   
G-quadruplex Ligands Database   
[database](http://www.g4ldb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1652)

**GABI-Kat SimpleSearch database** Weisshaar, Bernd; Kleinboelting, Nils; Huep, Gunnar; Kloetgen, Andreas; Viehoever, Prisca   
T-DNA insertions in *Arabidopsis*, their flanking sequence tags   
[database](http://www.gabi-kat.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/935)

**GabiPD** RiaÃ±o-PachÃ³n, D.M.1,2, Nagel, A.1, Neigenfind, J.1, Wagner, R.1, Basekow, R.1, Weber, E.1, Mueller-Roeber, B.2, Diehl, S.3, and Kersten, B.1,2   
A plant integrative 'omics' database   
[database](http://www.gabipd.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/672)

**GadFly**   
Genome annotation database of *Drosophila*   
[database](http://www.fruitfly.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/471)

**Gallus Gbrowse**   
Genomic information on chicken and other avian species   
[database](http://birdbase.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1076)

**GDSC** Mathew Garnett   
Genomics of Drug Sensitivity in Cancer: Sensitivity for anti-cancer drugs in various cell lines   
[database](http://www.cancerrxgene.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1653)

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*Gallus* expression *in situ* hybridization analysis   
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2D gel electrophoresis patterns from completed genomes   
[database](http://www.gelscape.ualberta.ca:8080/htm/gdbIndex.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/222)

**GeMInA** Lynn M. Schriml1, Cesar Arze1, Suvarna Nadendla1, Anu Ganapathy1, Victor Felix1, Anup Mahurkar1, Katherine Phillippy2, Aaron Gussman1,2, Sam Angiuoli1, Elodie Ghedin3, Owen White1 and Neil Hall4   
Genomic Metadata for Infectious Agents   
[database](http://gemina.igs.umaryland.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1381)

**GenAtlas**   
Human genes, markers, and phenotypes   
[database](http://www.genatlas.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/57)

**GenBank®**   
An annotated collection of all publicly available nucleotide and protein sequences   
[database](http://www.ncbi.nlm.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/3)

**GenColors** Marius Felder   
Genome annotation and comparison database for smaller genomes   
[database](http://sgb.fli-leibniz.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1668)

**GenDiS**   
Genomic distribution of protein structural superfamilies   
[database](http://caps.ncbs.res.in/gendis/home.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/674)

**Gene Expression Barcode** Matthew N. McCall, Karan Uppal, Harris A. Jaffee, Michael J. Zilliox, and Rafael A. Irizarry   
Gene expression data sorted into two groups: expressed and not expressed genes   
[database](http://rafalab.jhsph.edu/barcode)  [summary](http://www.oxfordjournals.org/nar/database/summary/1411)

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Gene expression in dental tissue   
[database](http://bite-it.helsinki.fi/)  [summary](http://www.oxfordjournals.org/nar/database/summary/24)

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An informal collection of pages on human genes   
[database](http://en.wikipedia.org/wiki/Portal:Gene_Wiki)  [summary](http://www.oxfordjournals.org/nar/database/summary/1371)

**Gene3D** Lees, Jon; Yeats, Corin; Orengo, Christine; Perkins, James; Sillitoe, Ian; Dessailly, Benoit; Rentzsch, Robert   
Precalculated structural assignments for whole genomes   
[database](http://cathwww.biochem.ucl.ac.uk:8080/Gene3D/)  [summary](http://www.oxfordjournals.org/nar/database/summary/472)

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Revised and improved annotation of Affymetrix human gene probe sets   
[database](http://genecards.weizmann.ac.il/geneannot/)  [summary](http://www.oxfordjournals.org/nar/database/summary/326)

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[database](http://www.genecards.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/350)

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Curated database for protozoan and bacterial genomes sequenced at the Sanger Centre   
[database](http://www.genedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/328)

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Expert annotation of *Arabidopsis* gene and protein families   
[database](http://urgi.versailles.inra.fr/Genefarm/)  [summary](http://www.oxfordjournals.org/nar/database/summary/675)

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Gene Location database, formerly known as Unified database for human genome mapping (UDB)   
[database](http://genecards.weizmann.ac.il/geneloc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/348)

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Gene indices of human, mouse, zebrafish, *Arabidopsis*, and *Drosophila*   
[database](http://genenest.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/327)

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[database](http://wwwmgs.bionet.nsc.ru/mgs/gnw/genenet/)  [summary](http://www.oxfordjournals.org/nar/database/summary/329)

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[database](http://genecards.weizmann.ac.il/genenote/)  [summary](http://www.oxfordjournals.org/nar/database/summary/325)

**GenePaint**   
Gene expression patterns in the mouse   
[database](http://www.genepaint.org/Frameset.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/330)

**GeneSigDB** Baker, Erich; Jay, Jeremy; Bubier, Jason; Langston, Michael; Chesler, Elissa   
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[database](http://genespeed.ccf.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1037)

**GeneTack** Mark Borodovsky   
Genes with frameshifts in prokaryotic genomes and eukaryotic mRNA sequences   
[database](http://topaz.gatech.edu/GeneTack/db.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1590)

**Genetic Codes**   
Deviations from the standard genetic codes in various organisms and organelles   
[database](http://www.ncbi.nlm.nih.gov/Taxonomy/Utils/wprintgc.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/480)

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A general guide on human hereditary diseases   
[database](http://ghr.nlm.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/479)

**GeneTide**   
A transcriptome-focused member of the GeneCards suite   
[database](http://genecards.weizmann.ac.il/genetide/)  [summary](http://www.oxfordjournals.org/nar/database/summary/676)

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Expression patterns in an embryonic stem library of gene trap insertions   
[database](http://www.cmhd.ca/genetrap/)  [summary](http://www.oxfordjournals.org/nar/database/summary/481)

**GeneTrees** Allan Dickerman   
Pre-compiled alignments and gene phylogenies for a variety of taxonomic groups   
[database](http://genetrees.vbi.vt.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1018)

**GeneWeaver** Erich Baker   
Functional genomics analysis system   
[database](http://www.geneweaver.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1544)

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*E. coli* genome database at Nara Institute   
[database](http://ecoli.aist-nara.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/482)

**Génolevures**   
A comparison of S. cerevisiae and 14 other yeast species   
[database](http://www.genolevures.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/483)

**GenoList**   
An integrated environment for comparative analysis of microbial genomes   
[database](http://genolist.pasteur.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1077)

**Genome Database for Rosaceae**   
Genomics of apple, cherry, peach, pear, raspberry, rose and strawberry   
[database](http://www.rosaceae.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1078)

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Integrated view of complete genomes   
[database](http://www.ebi.ac.uk/GenomeReviews/)  [summary](http://www.oxfordjournals.org/nar/database/summary/678)

**Genome3D** Tony Lewis   
Domain structure predictions and 3D models for proteins from model genomes   
[database](http://beta.genome3d.eu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1614)

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DNA structural properties of sequenced genomes   
[database](http://www.cbs.dtu.dk/services/GenomeAtlas/)  [summary](http://www.oxfordjournals.org/nar/database/summary/611)

**GenomeRNAi** Horn T., Arziman Z., Berger J. and Boutros M.   
Cell-based RNAi phenotypes database   
[database](http://genomernai.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/989)

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Conserved regulatory elements of human and mouse genes   
[database](http://genometrafac.cchmc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1036)

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Structural annotations of complete genomes   
[database](http://gene3d.biochem.ucl.ac.uk/Gene3D/)  [summary](http://www.oxfordjournals.org/nar/database/summary/489)

**Genomicus** Alexandra Louis   
Syntenic relationships between eukaryote genomes   
[database](http://www.dyogen.ens.fr/genomicus)  [summary](http://www.oxfordjournals.org/nar/database/summary/1669)

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[database](http://genprotec.mbl.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/165)

**GENSAT**   
Gene Expression Nervous System ATlas   
[database](http://www.gensat.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/918)

**GEO - Gene Expression Omnibus**   
Public gene expression repository   
[database](http://www.ncbi.nlm.nih.gov/geo/)  [summary](http://www.oxfordjournals.org/nar/database/summary/603)

**GermOnline** Primig, M.   
Expression data for the mitotic and meiotic cell cycle and gametogenesis in yeast and higher eukaryotes   
[database](http://www.germonline.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/485)

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SAGE data on gene expression in male germ cell development   
[database](http://germsage.nichd.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1199)

**GiardiaDB.org**   
Genome resources for anaerobic pathogens Trichomonas vaginalis and Giardia lamblia   
[database](http://giardiadb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1197)

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DDBJ's database of completely sequenced genomes   
[database](http://gib-is.genes.nig.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/484)

**GISSD**   
Group I Intron Sequence and Structure Database   
[database](http://www.rna.whu.edu.cn/gissd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1079)

**GLIDA**   
GPCR-Ligand Database   
[database](http://pharminfo.pharm.kyoto-u.ac.jp/services/glida/)  [summary](http://www.oxfordjournals.org/nar/database/summary/819)

**Glycan**   
Carbohydrate database, part of the KEGG system   
[database](http://www.genome.jp/kegg/glycan/)  [summary](http://www.oxfordjournals.org/nar/database/summary/486)

**Glycan Fragment DB** Wonpil Im   
Database of glycan 3D structures   
[database](http://www.glycanstructure.org/fragment-db)  [summary](http://www.oxfordjournals.org/nar/database/summary/1611)

**Glycoconjugate Data Bank**   
Annotated structures of glycan molecules   
[database](http://www.glycostructures.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1080)

**GlycoMapsDB**   
Conformational maps of disaccharides   
[database](http://www.glycosciences.de/modeling/glycomapsdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/988)

**GlycomeDB** RenÃ© Ranzinger, Stephan Herget, Claus-Wilhelm von der Lieth, and Martin Frank   
Carbohydrate structures   
[database](http://www.glycome-db.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1412)

**GlycoSuiteDB** Cooper, C., Joshi, H., Harrison, M., Wilkins, M., Packer, N.   
N- and O-linked glycan structures and biological sources   
[database](http://www.glycosuite.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/292)

**GO - Gene Ontology** Judith Blake   
Gene ontology consortium database   
[database](http://www.geneontology.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/487)

**GOBASE** O'Brien, E.A., Zhang, Y., Wang, E., Yang, L., Marie, V., Lang, B.F., and Burger, G.   
Organelle genome database   
[database](http://gobase.bcm.umontreal.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/74)

**GOLD** Kyrpides, Nikos; Pagani, Ioanna; Liolios, Konstantinos; Chen, I-Min; Smirnova, Tatyana; Nosrat, Bahador; Markowitz, Victor   
Genomes online database: a listing of completed and ongoing genome projects   
[database](http://www.genomesonline.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/75)

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Genes, proteins, and pathways implicated in lipid- associated disorders   
[database](http://gold.tugraz.at/)  [summary](http://www.oxfordjournals.org/nar/database/summary/363)

**GONUTS** Jim Hu   
Gene Ontology Normal Usage Tracking System   
[database](http://gowiki.tamu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1561)

**GOPaD** Alterovitz G.1,2,3,4, Xiang M.5, Mohan M.4 and Ramoni M.F.1,3,4   
The Gene Ontology Partition Database   
[database](http://bcl.med.harvard.edu/proj/gopart/)  [summary](http://www.oxfordjournals.org/nar/database/summary/939)

**GPCR NaVa database**   
A database of natural sequence variants within the family of human G Protein-Coupled Receptors   
[database](http://nava.liacs.nl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1180)

**GPCRDB**   
G protein-coupled receptors   
[database](http://www.gpcr.org/7tm/)  [summary](http://www.oxfordjournals.org/nar/database/summary/166)

**gpDB - G-protein database**   
G-proteins and their interaction with GPCRs   
[database](http://bioinformatics.biol.uoa.gr/gpDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/679)

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Gene expression in macrophages   
[database](http://gpxmea.gti.ed.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/891)

**GrainGenes**   
Molecular and phenotypic information on wheat, barley, rye, triticale, and oats   
[database](http://wheat.pw.usda.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/488)

**Gramene** Jaiswal P.1, Ni J.1, Yap I.1, Ware D.2,4, Spooner W.2, Youens-Clark K.2, Ren L.2, Liang C.2, Zhao W.2, Ratnapu K.2, Faga B.2, Canaran P.2, Fogleman M.1, Hebbard C.1, Avraham S.2, Schmidt S.2, Casstevens T.M.3, Buckler E.S.3,4, Stein L.2 and McCouch S.1   
A resource for comparative grass genomics   
[database](http://www.gramene.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/607)

**Greengenes** DeSantis T.Z.1, Hugenholtz P.2, Larsen N.3, Rojas M.4, Brodie E.L.1, Keller K.5, Huber T.6, Dalevi D.7, Hu P.1 and Andersen G.L.1   
A database of chimera-checked prokaryotic 16S rRNA genes   
[database](http://greengenes.lbl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/878)

**GreenPhylDB**   
Comparative genomics of rice and Arabidopsis thaliana   
[database](http://greenphyl.cirad.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1081)

**Greglist**   
G-quadruplex motifs and potentially G-quadruplex regulated genes   
[database](http://tubic.tju.edu.cn/greglist/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1082)

**GRSDB** Kostadinov R., Malhotra N., Viotti M., Shine R., Dâ€™Antonio L. and Bagga P.   
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[database](http://bioinformatics.ramapo.edu/GRSDB2/)  [summary](http://www.oxfordjournals.org/nar/database/summary/820)

**GTOP - Genomes To Protein structures** Fukuchi, S., Homma, K., Sakamoto, S., Nishikawa, K.   
Protein fold predictions from genome sequences   
[database](http://spock.genes.nig.ac.jp/~genome/gtop.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/322)

**GtRDB - Genomic tRNA Database** Todd M. Lowe   
tRNA sequences in complete genomes   
[database](http://gtrnadb.ucsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/490)

**GWAS Central** Hastings, R.K., Beck, T., Gollapudi, S., Free, R.C., Brookes, A.J.   
Curated human polymorphisms   
[database](https://www.gwascentral.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/131)

**GWASdb** Junwen Wang   
Human genetic variants identified by genome wide association studies   
[database](http://jjwanglab.org/gwasdb)  [summary](http://www.oxfordjournals.org/nar/database/summary/1542)

**GWIDD** Petras J. Kundrotas, Zhengwei Zhu, and Ilya A. Vakser   
Genome-WIde Docking Database: 3D structures of protein complexes   
[database](http://gwidd.bioinformatics.ku.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1365)

**GXA** Kapushesky, M., Emam, I., Holloway, E., Kurnosov, P., Zorin, A., Malone, J., Rustici, G., Williams, E., Parkinson, H., and Brazma, A.   
Gene Expression Atlas   
[database](http://www.ebi.ac.uk/gxa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1294)

**GXD - Mouse Gene Expression Database** Hill, D.P., Begley, D.A., Finger, J.H., Hayamizu, T.F., McCright, I.J., Smith, C.M., Beal, J.S., Corbani, L.E., Blake, J.A., Eppig, J.T., Kadin, J.A., Richardson, J.E., Ringwald, M.   
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[database](http://www.informatics.jax.org/expression.shtml)  [summary](http://www.oxfordjournals.org/nar/database/summary/15)

**GyDB**   
Gypsy database of mobile genetic elements   
[database](http://gydb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1083)

**H-DBAS** Takeda J.1,2, Suzuki Y.3, Nakao M.4,5, Kuroda T.6, Sugano S.3, Gojobori T.2,7 and Imanishi T.2,8   
Human database of alternative splicing   
[database](http://jbirc.jbic.or.jp/h-dbas/)  [summary](http://www.oxfordjournals.org/nar/database/summary/970)

**H-Invitational Database, an integrated database of human genes and transcripts** Takeda, J.1, Yamasaki, C.1, Murakami, K. 1, Sera, M.1, Hara, Y. 1, Nagai, Y. 1, Mamiya, K. 1, Endo, T. 1, Habara, T. 1, Obi, N. 1, Imanishi, T.1 and Gojobori, T. 1,2   
Full-length human cDNA clones   
[database](http://www.h-invitational.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/685)

**H2DB** Eli Kaminuma   
Heritability data for various species with trait-associated genomic loci   
[database](http://tga.nig.ac.jp/h2db/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1637)

**HaemB**   
Factor IX gene mutations, insertions and deletions   
[database](http://www.kcl.ac.uk/ip/petergreen/haemBdatabase.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/130)

**HAGR - Human Ageing Genomic Resources** Tacutu, R.1, Craig, T.1, Budovsky, A. 2,3, Wuttke, D. 1, Lehmann, G. 2, Taranukha, D2, Costa, J. 4, Fraifeld, V.E. 2 and de Magalhães J.P.1,\*   
Genes related to ageing in humans and model organisms   
[database](http://genomics.senescence.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/680)

**HAMAP** Bridge, A. (contact); Pedruzzi, I.; Rivoire, C.; Auchincloss, A.; Coudert, E.; Keller, G.; de Castro, E.; Baratin, D.; Cuche, B.; Bougueleret, L.; Poux, S.; Redaschi, N.; Xenarios, I.   
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[database](http://www.expasy.org/sprot/hamap/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1210)

**HaploReg** Luke Ward   
SNP-centric access to chromatin state information   
[database](http://compbio.mit.edu/HaploReg)  [summary](http://www.oxfordjournals.org/nar/database/summary/1529)

**HapMap Project** Thorisson, G.A., Stein, L.D.   
SNP Consortium data   
[database](http://snp.cshl.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/344)

**HaptenDB** Singh M.K., Srivastava S., Raghava G.P.S. and Varshney G.C   
Curated database of hapten molecules   
[database](http://www.imtech.res.in/raghava/haptendb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/682)

**HbVar**   
Human hemoglobin variants and thalassemias   
[database](http://globin.cse.psu.edu/globin/hbvar/)  [summary](http://www.oxfordjournals.org/nar/database/summary/491)

**HBVdb** Christophe Combet   
A knowledge database for the Hepatitis B Virus   
[database](http://hbvdb.ibcp.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1618)

**HCAD - Human Chromosome Aberration Database** hoffmann@cbio.mskcc.org or valencia@cnio.es   
Chromosomal breakpoints and affected genes   
[database](http://www.ihop-net.org/UniPub/HCAD)  [summary](http://www.oxfordjournals.org/nar/database/summary/683)

**HCV Database** Carla Kuiken   
Variation in hepatitis C virus sequences   
[database](http://hcv.lanl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/492)

**HCVDB - Hepatitis C Virus Database**   
The hepatitis C virus database   
[database](http://hepatitis.ibcp.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/473)

**HDBase** Nat Goodman   
A website for Huntington's disease research   
[database](http://hdbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/907)

**HEG-DB**   
Predicted highly expressed genes in prokaryotic genomes   
[database](http://genomes.urv.cat/HEG-DB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1084)

**HemaExplorer** Frederik Otzen Bagger   
No description supplied   
[database](http://servers.binf.ku.dk/shs/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1646)

**HemBase**   
Genes transcribed in differentiating human erythroid cells   
[database](http://hembase.niddk.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/493)

**Heme Protein Database**   
Heme types, protein structures, axial ligands and Em values   
[database](http://hemeprotein.info/heme.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1085)

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Transcriptional regulation in hematopoiesis   
[database](http://bioinformatics.wistar.upenn.edu/HemoPDB)  [summary](http://www.oxfordjournals.org/nar/database/summary/494)

**HepSeq** Gnaneshan, S., Ijaz, S., Moran, J., Ramsay, M. and Green, J.   
Epidemiological, clinical, and sequence data on the Hepatitis B virus   
[database](http://www.hpa-bioinformatics.org.uk/HepSEQ-Research/Public/Web_Front/main.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/972)

**Herb Ingredient Targets** Hao Ye, Li Ye, Hong Kang, Duanfeng Zhang, Lin Tao, Kailin Tang, Xueping Liu, Ruixin Zhu, Qi Liu, Y. Z. Chen, Yixue Li, and Zhiwei Cao   
Herbal active Ingredients and their Targets   
[database](http://lifecenter.sgst.cn/hit)  [summary](http://www.oxfordjournals.org/nar/database/summary/1413)

**HERVd - Human Endogenous Retrovirus database**   
Human endogenous retrovirus database   
[database](http://herv.img.cas.cz/)  [summary](http://www.oxfordjournals.org/nar/database/summary/495)

**Het-PDB Navi** Yamaguchi, A.1, Tomoda, S.2, Yura, K.3, Go, M.1   
Protein-small molecule interactions   
[database](http://hetpdbnavi.nagahama-i-bio.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/360)

**HEXEvent** Klemens Hertel   
Human Exone Splicing Events   
[database](http://hertellab.mmg.uci.edu/cgi-bin/HEXEvent/HEXEventWEB.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/1591)

**HFV database** Carla Kuiken   
Hemorrhagic fever virus sequence database   
[database](http://hfv.lanl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1503)

**HGNC Database** Gray, K.A., Daugherty, L.C., Gordon, S.M., Seal, R.L., Wright, M.W. and Bruford, E.A.   
Human gene nomenclature database: Approved symbols for all human genes   
[database](http://www.genenames.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/73)

**HGPD** Maruyama, Yukio; Kawamura, Yoshifumi; Nishikawa, Tetsuo; Isogai, Takao; Nomura, Nobuo; Goshima, Naoki   
Human Gene and Protein Database: experimental results of human proteomics   
[database](http://www.hgpd.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1286)

**HGT-DB, Horizontal Gene Transfer-DataBase** Garcia-Vallve, S., Guzman, E, Montero, MA., Romeu, A.   
Putative horizontally-transferred genes in prokaryotic genomes   
[database](http://genomes.urv.es/HGT-DB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/352)

**HGVS Databases**   
A compilation of human mutation databases   
[database](http://www.hgvs.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/496)

**HHMD** Yan Zhang, Jie Lv, Hongbo Liu, Jiang Zhu, Jianzhong Su, Qiong Wu, Yunfeng Qi, Fang Wang, and Xia Li   
Human Histone Modification Database   
[database](http://bioinfo.hrbmu.edu.cn/hhmd)  [summary](http://www.oxfordjournals.org/nar/database/summary/1345)

**HIC-Up** Kleywegt, G.J.   
Structures of small molecules (³hetero-compounds²)   
[database](http://xray.bmc.uu.se/hicup/)  [summary](http://www.oxfordjournals.org/nar/database/summary/265)

**hiPathDB** Sanghyuk Lee   
Human Integrated Pathway Database   
[database](http://hipathdb.kobic.re.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1517)

**Histome** Sanjeev Galande   
Human histone database   
[database](http://www.histome.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1475)

**Histone Database** Sullivan, S.1, Sink, D.W.2, Trout, K.L.2, Makalowska, I.2, Taylor, P.M.1, Baxevanis, A.D.2, Landsman, D.1   
Histone and histone fold sequences and structures   
[database](http://research.nhgri.nih.gov/histones/)  [summary](http://www.oxfordjournals.org/nar/database/summary/167)

**HitPredict** Hao Ye 1,2, Li Ye 1,2, Hong Kang 3, Duanfeng Zhang 3, Lin Tao 4,5, Kailin Tang 2Xueping Liu 1,2, Ruixin Zhu 3, Qi Liu 3, Y. Z. Chen 5, Yixue Li 2,6, and Zhiwei Cao 3   
Quality assessed protein-protein interactions in 9 species   
[database](http://hintdb.hgc.jp/htp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1314)

**Hits** Pagni, M.1, Falquet, L.1, Iseli, C.2, Jongeneel, V.2, Junier, T.3, Bucher, P.3   
A database of protein domains and motifs   
[database](http://hits.isb-sib.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/200)

**HIV Drug Resistance Database** Urvi Parikh, Brendan A. Larder, John W. Mellors, Raymond F Schinazi, Charles E. Calef   
Mutations in HIV genes that confer resistance to anti-HIV drugs   
[database](http://www.hiv.lanl.gov/content/sequence/RESDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/497)

**HIV Interactions database**   
Protein interactions of HIV proteins   
[database](http://www.ncbi.nlm.nih.gov/RefSeq/HIVInteractions/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1233)

**HIV Molecular Immunology Database**   
HIV epitopes   
[database](http://www.hiv.lanl.gov/content/immunology/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/168)

**HIV RT and Protease Sequence Database** Rhee, S.-Y., Gonzales, M.J., Kantor, R., Betts, B.J., Ravela, J., Shafer, R.W.   
HIV reverse transcriptase and protease sequences   
[database](http://hivdb.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/365)

**HIV Sequence Database** Leitner, T., Foley, B., Hahn, B., McCutchan, F., Marx, P., Wolinsky, S., Mellors, J., Moore, J., Korber, B.   
HIV RNA sequences   
[database](http://www.hiv.lanl.gov/content/index)  [summary](http://www.oxfordjournals.org/nar/database/summary/76)

**HLungDB** Lishan Wang, Yuanyuan Xiong, Yihua Sun, Zhaoyuan Fang, Li Li, Hongbin Ji, and Tieliu Shi   
Database of Human Lung Cancer Research   
[database](http://www.megabionet.org/bio/hlung/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1375)

**HMDB**   
Human Metabolome Database   
[database](http://www.hmdb.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1265)

**HMDB - The Human Metabolome Database** Wishart D.S.1,5,7, Tzur D.1, Knox C.1, Eisner R.1, Guo A.C.1, Young N.1, Cheng D.1, Jewell K.1, Arndt D.1, Sawhney S.5, Fung C.5, Nikolai L.1, Lewis M.1, Coutouly M.-A.1, Forsythe I.1, Tang P.1, Shrivastava S.1, Jeroncic K.1, Stothard P.1, Amegbey G.1, Block D.1, Hau D.D.1, Wagner J.1, Miniaci J.2, Clements M.3, Gebremedhin M.3, Guo N.3, Zhang Y.3, Duggan G.E.6, MacInnis G.D.6, Weljie A.M.6, Dowlatabadi R.6, Bamforth F.4, Clive D.3, Greiner R.1, Li L.3, Marrie M.4, Sykes B.D.2, Vogel H.J.6, Querengesser L.1   
Curated human metabolite and metabolism data   
[database](http://www.hmdb.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/991)

**HMPD**   
Human mitochondrial protein database   
[database](http://bioinfo.nist.gov/hmpd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/686)

**HmtDB - Human Mitochondrial DataBase** Rubino, Francesco; Piredda, Roberta; Calabrese, Francesco; Simone, Domenico; Lang, Martin; Calabrese, Claudia; Petruzzella, Vittoria; Tommaseo-Ponzetta, Mila; Gasparre, Giuseppe; Attimonelli, Marcella   
Variability data and tools for analysis of human mitochondrial genome sequences   
[database](http://www.hmtdb.uniba.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1174)

**HOCOMOCO** Ivan Kulakovskiy   
HOmo sapiens COmprehensive MOdel COllection of hand-curated transcription factor binding site models   
[database](http://autosome.ru/HOCOMOCO,http://cbrc.kaust.edu.sa/hocomoco/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1596)

**HOINVGEN** Ingo Paulsen1 and Arndt von Haeseler2,3,4,5   
Homologous genes in invertebrate genomes   
[database](http://pbil.univ-lyon1.fr/databases/hoinvgen/HOINVGEN.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/830)

**Hollywood**   
Exon annotation database   
[database](http://hollywood.mit.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/821)

**Homeobox Page** BÜrglin T.R.   
Information relevant to homeobox proteins, classification, and evolution   
[database](http://www.biosci.ki.se/groups/tbu/homeo.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/169)

**Homeodomain Resource**   
Homeodomain sequences, structures, and related genetic and genomic information   
[database](http://research.nhgri.nih.gov/homeodomain/)  [summary](http://www.oxfordjournals.org/nar/database/summary/170)

**HomoloGene**   
Automatically detected homologous genes in complete eukaryotic genomes   
[database](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=homologene)  [summary](http://www.oxfordjournals.org/nar/database/summary/605)

**Homophila** Gribskov, M.1,2, Bier, E.2, Reiter, L.T.2, Chien, S.1,2   
*Drosophila* homologs of human disease genes   
[database](http://superfly.ucsd.edu/homophila/)  [summary](http://www.oxfordjournals.org/nar/database/summary/8)

**HOMSTRAD - Homologous Structure Alignment Database**   
Curated structure-based alignments for protein families   
[database](http://tardis.nibio.go.jp/homstrad/)  [summary](http://www.oxfordjournals.org/nar/database/summary/498)

**Hoppsigen**   
Human and mouse homologous processed pseudogenes   
[database](http://pbil.univ-lyon1.fr/databases/hoppsigen.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/687)

**HORDE - Human Olfactory Receptor Data Exploratorium** Olender, T., Glusman, G., Feldmesser, E., Khen, M., Lancet, D.   
Olfactory receptor genes and proteins   
[database](http://bioportal.weizmann.ac.il/HORDE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/366)

**HotRegion** Ozlem Keskin   
Database of interaction Hotspots   
[database](http://prism.ccbb.ku.edu.tr/hotregion)  [summary](http://www.oxfordjournals.org/nar/database/summary/1522)

**HotSprint**   
Hot spots (functionally and structurally important residues) in protein interfaces   
[database](http://prism.ccbb.ku.edu.tr/hotsprint/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1086)

**HOWDY** Koike, T., Tsurumine, M., Inoue, A., Uchida, N., Iwashima, M., Suzuki, K., Kuroda, M.   
Integrated human genomic information   
[database](http://howdy.biosciencedbc.jp/HOWDY/top_en.pl)  [summary](http://www.oxfordjournals.org/nar/database/summary/324)

**HOX-PRO**   
Clustering of homeobox genes   
[database](http://www.iephb.nw.ru/labs/lab38/spirov/hox_pro/hox-pro00.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/293)

**hp-DPI**   
Database of protein interactions in *Helicobacter pylori*   
[database](http://dpi.nhri.org.tw/hp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/664)

**HPID - Human Protein Interaction database**   
Human protein interaction database   
[database](http://wilab.inha.ac.kr/hpid//)  [summary](http://www.oxfordjournals.org/nar/database/summary/688)

**HPMR - Human Plasma Membrane Receptome**   
Plasma membrane protein sequences, literature, and expression database   
[database](http://receptome.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/499)

**HPRD - Human Protein Reference Database**   
Domain architecture, post-translational modifications, interaction networks and disease   
[database](http://www.hprd.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/500)

**HPTAA**   
Human potential tumor-associated antigens   
[database](http://www.bioinfo.org.cn/hptaa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/822)

**HRTBLDb** Brian A. Kennedy, Wenqing Gao, Tim H.-M. Huang, and Victor X. Jin   
Hormone Receptors Target Binding Loci   
[database](http://motif.bmi.ohio-state.edu/hrtbldb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1377)

**HS3D - Homo Sapiens Splice Sites Dataset** Pollastro, P., Rampone, S.   
Human exon, intron, and splice regions   
[database](http://www.sci.unisannio.it/docenti/rampone/)  [summary](http://www.oxfordjournals.org/nar/database/summary/36)

**HTPSELEX**   
Transcription factor binding site sequences obtained using high-throughput SELEX method   
[database](http://ccg.vital-it.ch/htpselex/)  [summary](http://www.oxfordjournals.org/nar/database/summary/823)

**HUGE - Human Unidentified Gene-Encoded large proteins**   
Large (>50 kDa) human proteins and cDNA sequences   
[database](http://www.kazusa.or.jp/huge/)  [summary](http://www.oxfordjournals.org/nar/database/summary/171)

**HugeIndex - Human Gene Expression Index** Haverty, P.1, Weng, Z.2, Best, N.3, Auerback, K.3, Hsiao, L.3, Jensen, R.4, Gullans, S.3   
mRNA expression levels of human genes in normal tissues   
[database](http://zlab.bu.edu/HugeSearch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/23)

**Human BAC Ends Database**   
Non-redundant human BAC end sequences   
[database](http://www.jcvi.org/cms/research/projects/tdb/overview)  [summary](http://www.oxfordjournals.org/nar/database/summary/77)

**Human MtDB** Ingman M.   
Human mitochondrial genome database   
[database](http://www.genpat.uu.se/mtDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/824)

**Human OligoGenome Resource** Daniel Newburger   
Oligonucleotides for targeted resequencing of the human genome   
[database](http://oligogenome.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1549)

**Human p53, human hprt, rodent lacI and rodent lacZ databases**   
Mutations at the human p53 and hprt genes; rodent transgenic lacI and lacZ mutations   
[database](http://www.ibiblio.org/dnam/mainpage.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/134)

**Human PAML Browser**   
Positive selection in human genes detected through genome comparison   
[database](http://mendel.gene.cwru.edu/adamslab/cgi-bin/paml/pbrowser.py)  [summary](http://www.oxfordjournals.org/nar/database/summary/1087)

**Human PAX6 Allelic Variant Database**   
Mutations in human PAX6 gene   
[database](http://pax6.hgu.mrc.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/136)

**Human Proteinpedia**   
Community portal for sharing and integration of human proteomic data   
[database](http://www.humanproteinpedia.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1229)

**HumHot** Nishant K.T.1, Kumar C.2 and Rao M.R.S.1,2   
Human meiotic recombination hot spots   
[database](http://www.jncasr.ac.in/humhot/)  [summary](http://www.oxfordjournals.org/nar/database/summary/825)

**HuRef**   
A web resource for individual human genomics   
[database](http://huref.jcvi.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1185)

**HuSiDa - Human siRNA database**   
Human siRNA database   
[database](http://itb.biologie.hu-berlin.de/~nebulus/sirna/index.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/689)

**HvrBase++** Kohl J.1, Paulsen I.1, Laubach T.1, Radtke A.1, von Haeseler A.2,3,4,5   
A phylogenetic database of sequence samples from all primates   
[database](http://www.hvrbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/38)

**Hymenoptera Genome** Monica C. Munoz-Torres, Justin T. Reese, Christopher P. Childers, Anna K. Bennett, Jaideep P. Sundaram, Kevin L. Childs, Juan M. Anzola, Natalia Milshina, and Christine G. Elsik   
Genome sequences and annotation for honey bee Apis mellifera and the parasitoid wasp, Nasonia vitripennis   
[database](http://hymenopteragenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1414)

**HyperCLDB**   
Hypertext version of the Cell Line Data Base   
[database](http://bioinformatics.istge.it/hypercldb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1242)

**I2D - Interologous Interaction Database** Brown K.R.1,2 and Jurisica I.1,2,3   
Online Predicted Human Interaction Database   
[database](http://ophid.utoronto.ca/i2d/)  [summary](http://www.oxfordjournals.org/nar/database/summary/897)

**IARC TP53 Database** Olivier, M.1, Hollstein, M.2, Harris, C.C..3, and Hainaut, P.1   
Human TP53 somatic and germline mutations   
[database](http://www-p53.iarc.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/362)

**IBIS** Panchenko, Anna; Shoemaker, Benjamin; Zhang, Dachuan; Tyagi, Manoj; Thangudu, Ratna; Fong, Jessica; Marchler-Bauer, Aron; Bryant, Steve; Madej, Tom   
Inferred Biomolecular Interaction Server: protein-protein, ligand- and nucleic acid-binding sites   
[database](http://www.ncbi.nlm.nih.gov/Structure/ibis/ibis.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/1363)

**ICEberg** Hong-Yu OU   
Integrative and Conjugative Elements in Bacteria   
[database](http://db-mml.sjtu.edu.cn/ICEberg/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1506)

**IDBD**   
Infectious Disease Biomarker Database   
[database](http://biomarker.korea.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1088)

**IDEAL** Satoshi Fukuchi   
Intrinsically Disordered proteins with Extensive Annotations and Literature   
[database](http://www.ideal.force.cs.is.nagoya-u.ac.jp/IDEAL/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1494)

**IEDB-3D** Julia Ponomarenko 1,2, Nikitas Papangelopoulos 1, Dirk M. Zajonc 3, Bjoern Peters 3,Alessandro Sette3 and Philip E. Bourne 1,2   
Structural data within the Immune Epitope Database   
[database](http://www.immuneepitope.org/bb_structure.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1315)

**IGDB.NSCLC** Yuh-Shan Jou   
Integrated Genomic Database of Non-Small Cell Lung Cancer   
[database](http://igdb.nsclc.ibms.sinica.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1533)

**IGDD** Sanchari Pradhan, Mainak Sengupta, Anirban Dutta, Kausik Bhattacharyya, Sumit K. Bag, Chitra Dutta, and Kunal Ray   
Indian Genetic Disease Database   
[database](http://www.igdd.iicb.res.in/IGDD/home.aspx)  [summary](http://www.oxfordjournals.org/nar/database/summary/1415)

**IGRhCellID** Cheng-Kai Shiau, De-Leung Gu, Chian-Feng Chen, Chi-Hung Lin, and Yuh-Shan Jou   
Human Cell Lines Identification Resources   
[database](http://igrcid.ibms.sinica.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1416)

**IKMC** Martin Ringwald 1, Vivek Iyer 2, Jeremy C. Mason 1, Kevin R. Stone 1, Hamsa D. Tadepally 1, James A. Kadin 1, Carol J. Bult 1, Janan T. Eppig 1, Darren J. Oakley 2, Sebastien Briois 3, Elia Stupka 4, Vincenza Maselli4, Damian Smedley 5, Songyan Liu 6,Jens Hansen 7, Richard Baldock 8, Geoff G. Hicks 6 and William C. Skarnes2   
Data and resources from the International Knockout Mouse Consortium   
[database](http://www.knockoutmouse.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1316)

**IL2Rgbase**   
X-linked severe combined immunodeficiency mutations   
[database](http://research.nhgri.nih.gov/scid/)  [summary](http://www.oxfordjournals.org/nar/database/summary/501)

**IMG Genomes** Kyrpides, Nikos; Markowitz, Victor; Chen, I-Min; Palaniappan, Krishna; Chu, Ken; Szeto, Ernest; Grechkin, Yuri; Ratner, Anna; Jacob, Biju; Huang, Jinghua; Williams, Peter; Huntemann, Marcel; Anderson, Iain; Mavromatis, Konstantinos; Ivanova, Natalia   
Comparative analysis of microbial genomes sequenced at the DOE Joint Genome Institute   
[database](http://img.jgi.doe.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/828)

**IMG/M** Nikos; Markowitz, Victor; Chen, I-Min; Chu, Ken; Szeto, Ernest; Palaniappan, Krishna; Grechkin, Yuri; Ratner, Anna; Jacob, Biju; Pati, Amrita; Huntemann, Marcel; Liolios, Konstantinos; Pagani, Ioanna; Anderson, Iain; Mavromatis, Konstantinos; Ivanova, Natalia   
A data management and analysis system for metagenomes   
[database](http://img.jgi.doe.gov/m/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1089)

**IMGT** Lefranc, M.-P.   
Immunoglobulin, T cell receptor, MHC, IgSF and MhcSF standardized and integrated information system   
[database](http://www.imgt.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/172)

**IMGT/3Dstructure-DB** Ehrenman, F., Kaas, Q., and Lefranc, M.-P.   
Immunoglobulin, T cell receptor, MHC and RPI 3D structures from human and other vertebrate species   
[database](http://www.imgt.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/502)

**IMGT/GENE-DB** Giudicelli, V., Duroux, P., Ginestoux, C., Bellahcene, F., and Lefranc, M.-P.   
Immunoglobulin and T cell receptor genes from human and other vertebrate species   
[database](http://www.imgt.org/IMGT_GENE-DB/GENElect?livret=0/)  [summary](http://www.oxfordjournals.org/nar/database/summary/503)

**IMGT/HLA** Robinson J., Waller M.J., Marsh S.G.E.   
Polymorphic sequences of human MHC and related genes   
[database](http://www.ebi.ac.uk/imgt/hla/)  [summary](http://www.oxfordjournals.org/nar/database/summary/173)

**IMGT/LIGM-DB** Duroux, P., Giudicelli, V., Jabado-Michaloud, J., Regnier, L., Lefranc, M.-P.   
Immunoglobulin and T cell receptor sequences from human and other vertebrate species   
[database](http://www.imgt.org/cgi-bin/IMGTlect.jv/)  [summary](http://www.oxfordjournals.org/nar/database/summary/504)

**IMGT/PRIMER-DB** Folch, G., Ehrenman, F. and Lefranc, M.-P.   
Immunoglobulin and T cell receptor oligonucleotide sequences from human and other vertebrate species   
[database](http://www.imgt.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/505)

**IMOTdb** Pugalenthi G., Bhaduri A. and Sowdhamini R.   
Spatially interacting motifs in proteins   
[database](http://caps.ncbs.res.in/imotdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/829)

**Imprinted Gene Catalogue** Morison, I.M.1, Glaser, R.2   
Imprinted genes and parent-of-origin effects database   
[database](http://www.otago.ac.nz/IGC/)  [summary](http://www.oxfordjournals.org/nar/database/summary/294)

**InBase** Perler, F.B.   
All known inteins (protein splicing elements): properties, sequences, bibliography   
[database](http://www.neb.com/neb/inteins.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/174)

**IndelFR** Zheng Zhang   
Indel Flanking Region Database   
[database](http://indel.bioinfo.sdu.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1495)

**INFEVERS**   
Hereditary inflammatory disorder and familial mediterranean fever mutation data   
[database](http://fmf.igh.cnrs.fr/infevers/)  [summary](http://www.oxfordjournals.org/nar/database/summary/506)

**Influenza Virus Resource** Bao Y., Bolotov P., Zaslavsky L. and Tatusova T.   
NCBI Influenza Virus Sequence Database   
[database](http://www.ncbi.nlm.nih.gov/genomes/FLU/FLU.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/909)

**InnateDB** Karin Breuer   
A database of mammalian innate immune response   
[database](http://www.innatedb.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1671)

**Inparanoid**   
A database of eukaryotic orthologs   
[database](http://inparanoid.sbc.su.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/690)

**InSatDb** Archak S., Meduri E., Sravana Kumar P. and Nagaraju J.   
Sequences and properties of insect microsatellites   
[database](http://www.cdfd.org.in/insatdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/932)

**IntAct** Kerrien, Samuel1; Aranda, Bruno1; Breuza, Lionel2 , Bridge, Alan2 ; Broackes-Carter, Fiona3 ; Chen, Carol4 ; Duesbury, Margaret1 ; Dumousseau, Marine1; Feuermann, Marc2, Hinz, Ursula2, Jandrasits, Christine1; Jimenez, Rafael1; Khadake, Jyoti1 ; Mahadevan, Usha5; Masson, Patrick2; Pedruzzi, Ivo2; Pfeiffenberger, Erik1 ; Porras, Pablo1 ; Raghunath, Arathi5 ; Roechert, Bernd2 ; Orchard, S.1 and Hermjakob, Henning1   
Protein-protein interaction data   
[database](http://www.ebi.ac.uk/intact/)  [summary](http://www.oxfordjournals.org/nar/database/summary/507)

**Integr8 (formerly Proteome Analysis Database)** Kersey P.J., Bower L., Horne A.D. and Apweiler R.   
Functional classification of proteins in whole genomes   
[database](http://www.ebi.ac.uk/integr8/)  [summary](http://www.oxfordjournals.org/nar/database/summary/223)

**IntEnz** AlcÃ¡ntara R.1, Ast V.1, Axelsen K.B.2, Darsow M.1, de Matos P.1, Ennis M.1, Morgat A.2,3 and Degtyarenko K.1   
Integrated enzyme database and enzyme nomenclature   
[database](http://www.ebi.ac.uk/intenz/)  [summary](http://www.oxfordjournals.org/nar/database/summary/508)

**Inter-Chain Beta-Sheets**   
Protein-protein interactions mediated by interchain beta-sheet formation   
[database](http://icbs.ics.uci.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/770)

**InterActive Fly**   
*Drosophila* genes and their roles in development   
[database](http://www.sdbonline.org/fly/aimain/1aahome.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/509)

**InterDom**   
Putative protein domain interactions   
[database](http://interdom.i2r.a-star.edu.sg/)  [summary](http://www.oxfordjournals.org/nar/database/summary/510)

**InterEvol** Raphael Guerois   
Evolution of protein-protein Interfaces   
[database](http://biodev.cea.fr/interevol)  [summary](http://www.oxfordjournals.org/nar/database/summary/1523)

**Interferome** Rusinova, Irina; Yu, Simon; Forster, Sam; Kannan, Anitha; Masse, Marion; Cumming, Helen; Chapman, Ross; Hertzog, Paul   
Database of Interferon Regulated Genes   
[database](http://www.interferome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1244)

**Interferon Stimulated Gene Database**   
Genes induced by treatment with interferons   
[database](http://www.lerner.ccf.org/labs/williams/xchip-html.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/16)

**InterFil**   
Human Intermediate Filament database   
[database](http://www.interfil.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1021)

**International Gene Trap Consortium Database**   
International mouse Gene Trap Consortium data   
[database](http://www.genetrap.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/827)

**InterPro** Sarah Hunter1, Philip Jones1, Alex Mitchell1, Rolf Apweiler1, Teresa K. Attwood, Alex Bateman3, Thomas Bernard4, David Binns1, Peer Bork5, Sarah Burge1, Edouard de Castro6, Penny Coggill3, Matthew Corbett1, Ujjwal Das1, Louise Daugherty1, Lauranne Duquenne4, Robert D. Finn3, Matthew Fraser1, Julian Gough7, Daniel Haft8, Nicolas Hulo6, Daniel Kahn4, Elizabeth Kelly9, Ivica Letunic5, David Lonsdale1, Rodrigo Lopez1, Martin Madera7, John Maslen1, Craig McAnulla1, Jennifer McDowall1, Conor McMenamin1, Huaiyu Mi10, Prudence Mutowo-Muellenet1, Nicola Mulder9, Darren Natale11, Christine Orengo12, Sebastien Pesseat1, Marco Punta3, Antony F. Quinn1, Catherine Rivoire6, Amaia Sangrador-Vegas1, Jeremy D. Selengut8, Christian J. A. Sigrist6, Maxim Scheremetjew1, John Tate3, Manjulapramila Thimmajanarthanan,1 Paul D. Thomas10, Cathy H. Wu12, Corin Yeats, and Siew-Yit Yong1   
Protein families and domains   
[database](http://www.ebi.ac.uk/interpro/)  [summary](http://www.oxfordjournals.org/nar/database/summary/207)

**Interrupted coding sequences**   
Interrupted coding sequences - frameshifts, stop codons, sequencing errors in microbial genomes   
[database](http://www-bio3d-igbmc.u-strasbg.fr/ICDS/)  [summary](http://www.oxfordjournals.org/nar/database/summary/826)

**iPAVS** Pradeep Kumar Sreenivasaiah   
Integrated Pathway Analysis and Visualization System   
[database](http://ipavs.cidms.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1518)

**IPD - Immuno Polymorphism Database** Robinson, J., Waller, M.J., Marsh, S.G.E.   
Major histocompatibility complex sequences   
[database](http://www.ebi.ac.uk/ipd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/367)

**IPD-ESTDAB** Robinson J., Waller M.J., Marsh S.G.E.   
Immunologically characterised melanoma cell lines   
[database](http://www.ebi.ac.uk/ipd/estdab/)  [summary](http://www.oxfordjournals.org/nar/database/summary/692)

**IPD-HPA - Human Platelet Antigens** Robinson J., Waller M.J., Marsh S.G.E.   
Immuno polymorphism of human platelet antigens   
[database](http://www.ebi.ac.uk/ipd/hpa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/693)

**IPD-KIR - Killer-cell Immunoglobulin-like Receptors** Robinson J., Waller M.J., Marsh S.G.E.   
Immuno polymorphism of killer-cell Ig-like receptors   
[database](http://www.ebi.ac.uk/ipd/kir/)  [summary](http://www.oxfordjournals.org/nar/database/summary/694)

**IPD-MHC** Robinson J., Waller M.J., Marsh S.G.E.   
Sequences of the major histocompatibility complex   
[database](http://www.ebi.ac.uk/ipd/mhc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/691)

**IPI - International Protein Index** Kersey, P.J., Duarte, J., Apweiler, R.   
Non-redundant sets of human, mouse and rat proteins   
[database](http://www.ebi.ac.uk/IPI)  [summary](http://www.oxfordjournals.org/nar/database/summary/696)

**iProClass** Wu, C.H.1, Huang, H.1, Chen, Y.2, Barker, W.C.2   
Annotated protein database with family, function, and structure information   
[database](http://pir.georgetown.edu/iproclass/)  [summary](http://www.oxfordjournals.org/nar/database/summary/208)

**iProLINK** Hu Z.Z. and Wu C.H.   
Annotated literature sources for protein features and names   
[database](http://pir.georgetown.edu/iprolink/)  [summary](http://www.oxfordjournals.org/nar/database/summary/914)

**IRESdb - the Internal Ribosome Entry Site database** Bonnal, S., Boutonnet, C., Prado-Lourenco, L., Vagner, S.   
The Internal Ribosome Entry Site database   
[database](http://ifr31w3.toulouse.inserm.fr/IRESdatabase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/379)

**IRESite** Mokrejs M.1,2, Vopalensky V.1, Kolenaty O.1, Masek T.1, Feketova Z.1, Sekyrova P.3, Skaloudova B.1, Kriz V.4 and Pospisek M.1,5   
Experimentally studied internal ribosome entry sites   
[database](http://www.iresite.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/831)

**IRIS - International Rice Information System** McLaren, CG, Bruskiewich, RM   
Rice germplasm geneology and field data; rice structural and functional genomics and proteomics   
[database](http://rice.generationcp.org/germplasm/)  [summary](http://www.oxfordjournals.org/nar/database/summary/353)

**ISED** Yang, I.S.1,2, Lee, J.-L.2, Lee, J.S.1, Mitchell, W.P.3,4, Oh, H.-B.2, Kang, C.2, and Kim, K.H.1   
Influenza virus Sequence and Epitope Database   
[database](http://influenza.korea.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1290)

**Isfinder** Siguier P.1, Perochon J.1, Lestrade L.1, Mahillon J.2 and Chandler M.1   
A database of bacterial Insertion Sequences   
[database](http://www-is.biotoul.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/832)

**Islander**   
Pathogenicity islands and prophages in bacterial genomes   
[database](http://www.indiana.edu/~islander/)  [summary](http://www.oxfordjournals.org/nar/database/summary/512)

**Isobase** Daniel Park, Rohit Singh, Michael Baym, Chung-Shou Liao, and Bonnie Berger   
IsoRank PPI Network Alignment Based Ortholog Database   
[database](http://isobase.csail.mit.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1417)

**ITS2**   
Predicted structures of internal transcribed spacer 2 (ITS2)   
[database](http://its2.bioapps.biozentrum.uni-wuerzburg.de/cgi-bin/index.pl?about)  [summary](http://www.oxfordjournals.org/nar/database/summary/1090)

**ITTACA** Elfilali A.1,2, Lair S.1,2, Verbeke C.1,2, La Rosa P.1, Radvanyi F.2 and Barillot E.1,2   
Microarray gene expression and clinical data on tumors   
[database](http://bioinfo.curie.fr/ittaca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/833)

**IUBMB Nomenclature database** Gerard P. Moss   
Nomenclature of enzymes, membrane transporters, electron transport proteins and other proteins   
[database](http://www.chem.qmul.ac.uk/iubmb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/513)

**IUPAC Nomenclature database** Gerard P. Moss   
Nomenclature of biochemical and organic compounds approved by the IUBMB-IUPAC Joint Commission   
[database](http://www.chem.qmul.ac.uk/iupac/)  [summary](http://www.oxfordjournals.org/nar/database/summary/514)

**IUPHAR-DB** Harmar, A.J., Hills, R.A., Rosser, E.M., Jones, M., Buneman, O.P., Dunbar, D.R., Greenhill, S.D., Hale, V.A., Sharman, J.L., Bonner, T.I., Catterall, W.A., Davenport, A.P., Delagrange, P., Dollery, C.T., Foord, S.M., Gutman, G.A., Laudet, V., Neubig, R.R., Ohlstein, E.H., Olsen, R.W., Peters, J., Pin, J.-P., Ruffolo, R.R., Searls, D.B., Wright, M.W., and Spedding, M.   
IUPHAR recommendations on receptor nomenclature and drug classification   
[database](http://www.iuphar-db.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1240)

**IUPHAR-RD**   
The International Union of Pharmacology recommendations on receptor nomenclature and drug classification   
[database](http://www.iuphar-db.org/iuphar-rd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/515)

**IVDB - Influenza Virus Database** Chang S.1,2, Zhang J.1, Liao X.1, Zhu X.1,3, Wang D.1, Zhu J.1, Feng T.1, Yang H.1, Yu J.1 and Wang J.1   
Annotated sequences and geographic distribution of the influenza virus   
[database](http://influenza.psych.ac.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/993)

**JAIL**   
Structure-based interface library for macromolecules   
[database](http://bioinformatics.charite.de/jail/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1192)

**JASPAR**   
Collection of PSSMs for transcription factor DNA-binding sites   
[database](http://jaspar.cgb.ki.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/516)

**Jenalib: Jena Library of Biological Macromolecules** Reichert, J., Suehnel, J.   
Visualization and analysis of 3D biopolymer structures   
[database](http://www.fli-leibniz.de/IMAGE.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/267)

**JSNP** Kuroda M.1, Uchida N.1, Kawaguchi T.1, Yasuda E.1, Tanaka T.2, Takagi T.2 and Nakamura Y.2   
Japanese SNP database   
[database](http://snp.ims.u-tokyo.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/517)

**KaPPA-View**   
Kazusa Plant Pathway Viewer   
[database](http://kpv.kazusa.or.jp/kpv4)  [summary](http://www.oxfordjournals.org/nar/database/summary/1418)

**KaryotypeDB** Nenno M.   
Karyotype and chromosome data for animal and plant species   
[database](http://www.nenno.it/karyotypedb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/777)

**KBERG** Tang S.1, Zhang Z.1, Tan S.L.1, Tang M.-H.E.1, Kumar A.P.1, Ramadoss S.K.1, and Bajic V.B.2   
KnowledgeBase for Estrogen Responsive Genes   
[database](http://datam.i2r.a-star.edu.sg/kberg/)  [summary](http://www.oxfordjournals.org/nar/database/summary/949)

**KDBI** Ji Z.L.1, Han B.C.1, Wang Y.P.1, Zhang Y.T.1, Liang L.1, Han L.Y.2, Zheng C.J.2, Chen Y.Z.2   
Kinetic Data of Bio-molecular Interaction   
[database](http://bidd.nus.edu.sg/group/kdbi/kdbi.asp)  [summary](http://www.oxfordjournals.org/nar/database/summary/138)

**KEGG - Kyoto Encyclopedia of Genes and Genomes** Kanehisa, Minoru; Goto, Susumu; Sato, Yoko; Furumichi, Miho; Tanabe, Mao   
Metabolic and regulatory pathways   
[database](http://www.genome.jp/kegg/)  [summary](http://www.oxfordjournals.org/nar/database/summary/112)

**KEGG LIGAND Database** Goto, S.1, Okuno, Y.1, Hattori, M.1, Nishioka, T.2, Kanehisa, M.1   
Chemical compounds and reactions in biological pathways   
[database](http://www.genome.jp/kegg/ligand.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/113)

**KIDFamMap** Jinn-Moon Yang   
Kinase-inhibitor-disease family map   
[database](http://gemdock.life.nctu.edu.tw/KIDFamMap/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1609)

**Kidney Development Database** Davies J.A.   
Kidney development and gene expression   
[database](http://golgi.ana.ed.ac.uk/kidhome.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/17)

**KineticDB** Bogatyreva, N.S.1, Osypov, A.A.2, Ivankov, D.N.1   
Kinetic data on folding of single-domain globular proteins   
[database](http://kineticdb.protres.ru/db/index.pl)  [summary](http://www.oxfordjournals.org/nar/database/summary/1226)

**KinG: Kinases in Genomes** Gnanavel, M., Rakshambikai, R. and Srinivasan, N.   
KinG: Kinases in Genomes is a comprehensive collection of Ser/Thr/Tyr specific protein kinases and similar sequences encoded in the completed genomes of eukaryotes and prokaryotes. This site provides a detailed classification based on sequence similarity between catalytic domains of protein kinases.   
[database](http://king.mbu.iisc.ernet.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/518)

**KinMutBase**   
Disease-causing protein kinase mutations   
[database](http://www.uta.fi/imt/bioinfo/KinMutBase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/139)

**Kinomer**   
Classification of protein kinases encoded in various eukatotic species   
[database](http://www.compbio.dundee.ac.uk/kinomer/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1273)

**Klotho** Stuppy J.1, Kling S.1, Holcomb J.2, Dunford-Shore B.2, Sadekar S.1, Cannon B.1, Abbott J.1, Tullock A.1, Campbell T.1, Wilson S.1, Fabrizio F.2, Wise W.B.1 and Kazic T.1   
Collection and categorization of biological compounds   
[database](http://www.biocheminfo.org/klotho/)  [summary](http://www.oxfordjournals.org/nar/database/summary/111)

**Knottin database**   
Database of knottins - small proteins with an unusual "disulfide through disulfide" knot   
[database](http://knottin.cbs.cnrs.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/519)

**KUPS** Xue-wen Chen 1,2, Jong Cheol Jeong 2 and Patrick Dermyer 2   
Interacting and non-interacting protein pairs   
[database](http://www.ittc.ku.edu/chenlab/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1317)

**L1Base**   
Functional annotation and prediction of LINE-1 elements   
[database](http://line1.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/697)

**Laminin Database** Daiane C. F. Golbert, Leandra Linhares-Lacerda, Luiz G. Almeida, Eliane Correa-de-Santana, Alice R. de Oliveira, Alex S. Mundstein, Wilson Savino, and Ana T. R. de Vasconcelos   
Laminin Database   
[database](http://www.lm.lncc.br/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1419)

**LAMP** Achchuthan Shanmugasundram1,2,\*, Faviel F Gonzalez-Galarza1, Jonathan Wastling2, Olga Vasieva1and Andrew R Jones1   
Library of Apicomplexan Metabolic Pathways (LAMP): A manually curated database for metabolic pathways of apicomplexan parasites   
[database](http://www.llamp.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1580)

**Leaf Senescence Database** Xiaochuan Liu, Zhonghai Li, Zhiqiang Jiang, Yi Zhao, Jinying Peng, Jinpu Jin, Hongwei Guo, and Jingchu Luo   
Leaf senescence-associated genes, mutants and phenotypes   
[database](http://www.eplantsenescence.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1421)

**LEGER** Dieterich G., KÄrst U., Fischer E., Wehland J. and JÄnsch L.   
Comparative genomics of pathogenic and non-pathogenic *Listeria* spp.   
[database](http://leger2.gbf.de/cgi-bin/expLeger.pl)  [summary](http://www.oxfordjournals.org/nar/database/summary/834)

**Legume Information System** Waugh M.1, Anderson W.1, Bell C.2, Inman J.1, Schilkey F.1, Sullivan J.1, May G.3   
Model legume Medicago ESTs, gene expression and proteomic data   
[database](http://www.comparative-legumes.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/80)

**LegumelIP** Patrick Zhao   
Model Legumes Integrative database Platform   
[database](http://plantgrn.noble.org/LegumeIP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1555)

**LeptoList** CÃ©dric Cabau1, Virginie Cubas1, Gang Fang1,3, Christine Ho1, Zhou Yu1, Ivan Moszer2,3, Antoine Danchin1,3   
*Leptospira interrogans* genome database   
[database](http://microme.genomics.org.cn/program/GenoListPERL/index.pl?database=leptolist)  [summary](http://www.oxfordjournals.org/nar/database/summary/521)

**LGICdb** Le Novere, N.   
Ligand-gated ion channel subunit sequences   
[database](http://www.ebi.ac.uk/compneur-srv/LGICdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/176)

**LIFEdb** Mehrle A.1, Rosenfelder H.1, Schupp I.1, del Val C.2, Arlt D.1, Hahne F. 1, Bechtel S. 1, Simpson J.3, Hofman O.4, Winston Hide W.1, Glatting K.-H.2, Huber W.5, Pepperkok R.4, Poustka A.1 and Wiemann S.1   
A database on localization, interaction, functional assays and expression of human proteins   
[database](http://www.dkfz.de/gpcf/lifedb.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/522)

**LigAsite**   
Biologically relevant binding sites in proteins with known apo-structures   
[database](http://www.scmbb.ulb.ac.be/Users/benoit/LigASite/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1091)

**Lipase Engineering Database** Fischer, M., Pleiss, J.   
Integrated information on sequence, structure, and function of lipases and esterases   
[database](http://www.led.uni-stuttgart.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/368)

**Lipid MAPS** Cotter D.1, Maer A.1, Guda C.2, Saunders B.1, and Subramaniam S.1,3   
Lipid-associated proteins   
[database](http://www.lipidmaps.org/data/proteome/index.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/835)

**Lncipedia** Pieter-Jan Volders   
Human lncRNA gene sequences and structures   
[database](http://www.lncipedia.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1599)

**lncRNAdb** Paulo P. Amaral, Michael B. Clark, Dennis K. Gascoigne, Marcel E. Dinger, and John S. Mattick   
Long Non-Coding RNA Database   
[database](http://www.lncrnadb.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1420)

**LncRNADisease** Geng Chen1,2,3#, Ziyun Wang2#, Dongqing Wang2#, Chengxiang Qiu2, Mingxi Liu4, Xing Chen4, Qipeng Zhang2, Guiying Yan4\*, and Qinghua Cui1,2,3\*   
LncRNADisease: a database for long noncoding RNA associated diseases   
[database](http://cmbi.bjmu.edu.cn/lncrnadisease)  [summary](http://www.oxfordjournals.org/nar/database/summary/1579)

**LOCATE** Fink J.L.1,2, Aturaliya R.N.1,2, Davis M.J.2, Zhang F. 2, Hanson K.1,2, Teasdale M.S. 2, Kai C. 3, Kawai, J.3,4, Carninci P.3,4, Hayashizaki Y.3,4 and Teasdale R.D.1,2   
Subcellular localization of mouse proteins   
[database](http://locate.imb.uq.edu.au/)  [summary](http://www.oxfordjournals.org/nar/database/summary/836)

**LocDB** Shruti Rastogi 1, and Burkhard Rost 1,2,3   
Experimental annotations of localization for Homo sapiens and Arabidopsis thaliana   
[database](http://www.rostlab.org/services/locDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1318)

**Locus-specific variation database**   
Human Genetics Unit's Locus Specific Databases   
[database](http://lsdb.hgu.mrc.ac.uk/home.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/135)

**LOLA**   
List of lists annotated: a comparison of gene sets identified in different microarray experiments   
[database](http://www.lola.gwu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/778)

**Lowe Syndrome Mutation Database**   
Mutations in the OCRL1 gene encoding phosphatidylinositol-4,5-bisphosphate 5-phosphatase   
[database](http://research.nhgri.nih.gov/lowe/)  [summary](http://www.oxfordjournals.org/nar/database/summary/523)

**LOX-DB** LÜtteke, T.1, Krieg, P.2, FÜrstenberger, G.2, von der Lieth, C.-W.1   
Mammalian, invertebrate, plant and fungal lipoxygenases   
[database](http://www.oxfordjournals.org/nar/database/a/www.glycosciences.de/spec/lox-db/)  [summary](http://www.oxfordjournals.org/nar/database/summary/524)

**LPFC**   
Library of protein family core structures   
[database](http://helix-web.stanford.edu/LPFC/)  [summary](http://www.oxfordjournals.org/nar/database/summary/269)

**LUCApedia** Laura Landweber   
Predicted genome, proteome, and reactome of LUCA   
[database](http://eeb.princeton.edu/lucapedia)  [summary](http://www.oxfordjournals.org/nar/database/summary/1662)

**LumbriBASE**   
ESTs of the earthworm *Lumbricus rubellus*   
[database](http://www.earthworms.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/698)

**M3D**   
Many Microbe Microarrays Database   
[database](http://m3d.bu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1092)

**MachiBase**   
Drosophila melanogaster 5' mRNA transcription start site database   
[database](http://machibase.gi.k.u-tokyo.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1224)

**MACiE** Holliday, Gemma1; Andreini, Claudia2,3; Fischer, Julia1; Rahman, Syed1; Almonacid, Daniel4; Williams, Sophie1 and Pearson, William5   
Mechanism, Annotation and Classification in Enzymes   
[database](http://www.ebi.ac.uk/thornton-srv/databases/MACiE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/893)

**MAGEST**   
Ascidian (*Halocynthia roretzi*) gene expression patterns   
[database](http://magest.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/18)

***Magnaporthe grisea* Database**   
*Magnaporthe grisea* integrated physical/genetic map   
[database](http://www.broadinstitute.org/annotation/fungi/magnaporthe/)  [summary](http://www.oxfordjournals.org/nar/database/summary/525)

**MaizeGDB** Lawrence, C.J.1, Dong, Q.1, Polacco, M.L.3, Seigfried, T.E.1, Brendel, V.1,2   
Maize genetics and genomics database   
[database](http://www.maizegdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/526)

**MALISAM**   
Manual alignments for structurally analogous motifs in proteins   
[database](http://prodata.swmed.edu/malisam/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1093)

**MAMEP - Molecular Anatomy of the Mouse Embryo Project**   
Gene expression data on mouse embryos   
[database](http://mamep.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/699)

**Mammalian Gene Collection**   
Full-length open reading frame clones for human, mouse, and rat genes   
[database](http://mgc.nci.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/600)

**MamMiBase** de Vasconcelos A.T.R.1, GuimarÃes A.C.R.1, Castelletti C.H.M.1, Caruso C.S.1, Ribeiro C.1, Yokaichiya F.1, ArmÔa G.R.G.3, Pereira G.S.P.1, da Silva I.T.1, Schrago C.G.2, Fernandes A.L.V.1, da Silveira A.R.1, Carneiro A.G.1, Carvalho B.M.1, Viana C.J.M.1, Gramkow D.1, Lima F.J.1, CorrÊa L.G.G.1, Mudado M.A.1, Nehab-Hess P.2, de Souza R.1, CorrÊa R.L.1 and Russo C.A.M.2   
Mammalian Mitochondrial genome database   
[database](http://www.mammibase.lncc.br/)  [summary](http://www.oxfordjournals.org/nar/database/summary/894)

**MamPol** Egea R.1, Casillas S.1, FernÃ¡ndez E.2, Senar MA.2 and Barbadilla A.1   
Mammalia Polymorphism Database   
[database](http://mampol.uab.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/952)

**MAPPER** Alberto Riva   
Putative transcription factor binding sites in various genomes   
[database](http://genome.ufl.edu/mapperdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/700)

**MAPU** Gnad, F.1, Oroshi, M.1, Birney, E.2, Mann, M.1   
Max-Planck Unified Proteome Database   
[database](http://www.mapuproteome.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/950)

**MapViewer**   
Display of genomic information by chromosomal position   
[database](http://www.ncbi.nlm.nih.gov/projects/mapview/)  [summary](http://www.oxfordjournals.org/nar/database/summary/54)

**MAtDB2**   
MIPS *Arabidopsis thaliana* database   
[database](http://mips.helmholtz-muenchen.de/plant/athal/)  [summary](http://www.oxfordjournals.org/nar/database/summary/527)

**MatrixDB** Emilie Chautard 1, Marie Fatoux-Ardore 1, Lionel Ballut 1, Nicolas Thierry-Mieg 2 and Sylvie Ricard-Blum 1   
Extracellular matrix interaction database   
[database](http://matrixdb.ibcp.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1319)

**MBGD - Microbial Genome Database** Uchiyama I.   
Microbial genome database for comparative analysis   
[database](http://mbgd.genome.ad.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/528)

**MDPD**   
Mutation Database for Parkinson's Disease   
[database](http://datam.i2r.a-star.edu.sg/mdpd/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1256)

***Medicago trunculata* Database**   
*Medicago trunculata*-related resources   
[database](http://www.medicago.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/539)

**MedicCyc**   
Biochemical pathways in *Medicago truncatula*   
[database](http://www.noble.org/mediccyc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1159)

**MegaMotifbase**   
Structural motifs in protein families and superfamilies   
[database](http://caps.ncbs.res.in/MegaMotifbase/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1094)

**MeGX** Lombardot T.1, Kottman R.1, Pfeffer H.1, Richter M.1, Teeling H.1, Quast C.1 and GlÃ¶ckner F.O.1,2   
Database portal for marine ecological genomics   
[database](http://www.megx.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/837)

**MeMotif** Annalisa Marsico, Kerstin Scheubert, Anne Tuukkanen, Andreas Henschel, Christof Winter, Rainer Winnenburg, and Michael Schroeder   
Linear motifs in alpha-helical transmembrane proteins   
[database](http://projects.biotec.tu-dresden.de/memotif)  [summary](http://www.oxfordjournals.org/nar/database/summary/1346)

**MEPD: A Medaka gene expression pattern database** Henrich, T.1, Ramialison, M.1, Quiring, R.2, Wittbrodt, B.2, Furutani-Seiki, M.1, Wittbrodt, J.2, Kondoh, H.1   
Medaka (freshwater fish *Oryzias latipes*) gene expression pattern database   
[database](http://ani.embl.de:8080/mepd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/339)

**MeRNA** Stefan L.R.1, Zhang R.1, Levitan A.G.1, Hendrix D.K.1,2, Brenner S.E.1,2 and Holbrook S.R.1   
Metal ion binding sites in RNA structures   
[database](http://merna.lbl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/838)

**MEROPS** Neil D. Rawlings, Alan J. Barrett and Alex Bateman   
Proteolytic enzymes (proteases/peptidases)   
[database](http://merops.sanger.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/177)

**mESAdb** Koray D. Kaya, GÃ¶khan KarakÃ¼lah, Cengiz M. Yak?c?er, Aybar C. Acar, and Ã–zlen Konu   
microRNA Expression and Sequence Analysis Database   
[database](http://konulab.fen.bilkent.edu.tr/mirna/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1455)

**meta.MicrobesOnline** Dylan Chivian   
A suite of Web-based comparative genomic tools for metagenome analysis   
[database](http://www.meta.microbesonline.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1620)

**MetaBase** Dan Bolser   
Wiki database of biological databases   
[database](http://metadatabase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1560)

**MetaBioME** Vineet K. Sharma, Naveen Kumar, Tulika Prakash, and Todd D. Taylor   
Metagenomic BioMining Engine: homologs of commercially useful enzymes in metagenomic datasets   
[database](http://metasystems.riken.jp/metabiome/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1361)

**MetaboLights** Christoph Steinbeck   
A database for metabolomics experiments and the associated metadata   
[database](http://www.ebi.ac.uk/metabolights)  [summary](http://www.oxfordjournals.org/nar/database/summary/1629)

**MetaCrop**   
Biochemical pathways and enzymes in crop plants   
[database](http://metacrop.ipk-gatersleben.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1095)

**MetaCyc** Caspi, Ron1; Altman, Tomer1; Dreher, Kate2; Fulcher, Carol1; Subhraveti, Pallavi1; Keseler, Ingrid1; Kothari, Anamika1; Krummenacker, Markus1; Latendresse, Mario1; Mueller, Lukas3; Ong, Quang1; Paley, Suzanne1; Pujar, Anuradha3; Shearer, Alexander1; Travers, Michael1; Weerasinghe, Deepika1; Zhang, Peifen2; Karp, Peter1   
Metabolic pathways and enzymes from various organisms .   
[database](http://metacyc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/114)

**Metagrowth** Ogata, H. and Claverie, J.-M.   
Growth requirements of bacterial pathogens   
[database](http://igs-server.cnrs-mrs.fr/axenic/)  [summary](http://www.oxfordjournals.org/nar/database/summary/614)

**Metalloprotein Site Database** Castagnetto, J.M., Hennessy, S.W., Roberts, V.A., Getzoff, E.D., Tainer, J.A., Pique, M.E.   
Metal-binding sites in metalloproteins   
[database](http://metallo.scripps.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/179)

**MetalPDB** Andreini, C.1,2, Cavallaro, G.1, Lorenzini, S.1, and Rosato, A.1,2   
Metal-binding sites and their structural environment within macromolecular structures   
[database](http://metalweb.cerm.unifi.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1575)

**MetaRouter**   
Compounds and pathways related to bioremediation   
[database](http://pdg.cnb.uam.es/MetaRouter/)  [summary](http://www.oxfordjournals.org/nar/database/summary/701)

**metaTIGER**   
Metabolic evolution resource and its application to Plasmodium evolution   
[database](http://www.bioinformatics.leeds.ac.uk/metatiger/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1270)

**MethDB** Grunau, C.1, Renault, E.1, Hindermann, W.2, Roizes, G.1   
DNA methylation data, patterns, and profiles   
[database](http://www.methdb.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/19)

**MethyCancer**   
Links between DNA methylation levels and cancer   
[database](http://methycancer.psych.ac.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1096)

**MethylomeDB** Fatemeh Haghighi   
DNA methylation profiles in human and mouse brain   
[database](http://epigenomics.columbia.edu/methylomedb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1559)

**METscout** Gregor Eichele   
Spatial organization of metabolic reactions in the mouse   
[database](http://metscout.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1647)

**MFunGD**   
MIPS mouse functional genomics database   
[database](http://mips.gsf.de/genre/proj/mfungd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/839)

**MGD - Mouse Genome Database** Bult, Carol (contact); Eppig, Janan; Blake, Judith; Kadin, James; Richardson, Joel; Mouse Genome Database Group, The   
Mouse genome database   
[database](http://www.informatics.jax.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/87)

**MHCBN** Bhasin M. and Raghava G.P.S.   
A database of MHC binding and non-binding peptides   
[database](http://www.imtech.res.in/raghava/mhcbn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/702)

**MHCPEP**   
MHC-binding peptides   
[database](http://bio.dfci.harvard.edu/DFRMLI/)  [summary](http://www.oxfordjournals.org/nar/database/summary/181)

**MICdb - Database of Prokaryotic Microsatellites** Sreenu, V.B.1, Ranjitkumar, G.1, Swaminathan, S.1, Priya, S.1, Bose, B.1, Narendra Pavan, M.1, Nagaraju, J.2, Nagarajaram, H.A.1   
Prokaryotic microsatellites   
[database](http://micas.cdfd.org.in:8080/MIC/)  [summary](http://www.oxfordjournals.org/nar/database/summary/343)

**MicrobesOnline** Paramvir S. Dehal, Marcin P. Joachimiak, Morgan N. Price, John T. Bates, Jason K. Baumohl, Dylan Chivian, Greg D. Friedland, Katherine H. Huang, Keith Keller, Pavel S. Novichkov, Inna L. Dubchak, Eric J. Alm, and Adam P. Arkin   
A suite of Web-based tools for comparative genomics   
[database](http://www.microbesonline.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1358)

**MiCroKit** Ren, J.1,2, Liu, Z.2, Gao, X.2, Jin, C.2, Ye, M.3, Zou, H.3, Wen, L.2, Zhang, Z.4, Yao, X.2\*, and Xue, Y.1,2\*   
Midbody, Centrosome and Kinetochore proteins   
[database](http://microkit.biocuckoo.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1022)

**microRNA.org**   
microRNA target predictions and expression profiles   
[database](http://www.microrna.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1097)

**MicroScope** Claudine Medigue   
Microbial Genome Annotation & Analysis Platform   
[database](http://www.genoscope.cns.fr/agc/microscope/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1666)

**MicrosporidiaDB**   
Functional Genomic Resource for Microsporidia   
[database](http://microsporidiadb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1422)

**MiMI**   
Michigan Molecular Interactions   
[database](http://mimi.ncibi.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1237)

**MiMI - Michigan Molecular Interactions** Jayapandian, M1, Chapman, A.1, Tarcea V.G.1, Yu, C.1, Elkiss, A.1, Ianni, A.1, Liu, B.1, Nandi, A.1, Santos, C.2, Andrews, P.3, Athey, B.4, States, D.5 and Jagadish, H.V.1   
Unified resource on protein-protein interactions   
[database](http://mimi.ncibi.org/MiMI/home.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/942)

**MimoDB** Jian Huang   
Mimotope database, active site-mimicking peptides selected from phage-display libraries   
[database](http://immunet.cn/mimodb)  [summary](http://www.oxfordjournals.org/nar/database/summary/1470)

**MINAS** Roland Sigel   
Metal Ions in Nucleic AcidS   
[database](http://www.minas.uzh.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1485)

**Minimotif Miner** Schiller, Martin; Merlin, Jerlin; Mi, Tian.; Deverasetty, Sandeep; Gryk, Michael; Bill, Travis; Brooks, Andrew; Lee, Logan; Rathnayake, Viraj; Ross, Christian; Sargeant, David; Strong, Christy; Watts, Paula; Rajasekaran, Sanguthevar   
Search tools for short functional motifs involved in posttranslational modifications, binding to other proteins, nucleic acids, or small molecules   
[database](http://mnm.engr.uconn.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1283)

**MINT** Briganti, Leonardo1; Licata, Luana1; Peluso, Daniele2; Perfetto, Livia1; Iannuccelli, Marta1; Galeota, Eugenia1; Sacco, Francesca1; Palma, Anita1; Nardozza, Aurelio1; Santonico, Elena1; Castagnoli, Luisa1; Cesareni, Gianni1,2   
Molecular INTeraction database   
[database](http://mint.bio.uniroma2.it/mint/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1032)

**MIPModDB** R. Sankararamakrishnan   
Major Intrinsic Protein superfamily Models   
[database](http://bioinfo.iitk.ac.in/MIPModDB)  [summary](http://www.oxfordjournals.org/nar/database/summary/1477)

**MIPS resources**   
Databases at Munich Information Center for Protein Sequences   
[database](http://mips.gsf.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/88)

**MIPSPlantsDB** Spannagl, Manuel; Nussbaumer, Thomas; Martis, Mihaela; Rößner, Stephan; Pfeifer, Matthias; Bader, Kai; Sharma, Sapna; Gundlach, Heidrun   
MIPS Plants Databases   
[database](http://mips.gsf.de/proj/plant/jsf/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1029)

**miR2Disease**   
Literature-curated database for validatedly or potentially pathogenic roles of dysregulated miRNAs in human disease   
[database](http://www.mir2disease.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1234)

**miRBase** Griffiths-Jones S., Grocock R.J., van Dongen S., Bateman A. and Enright A.J.   
Database of microRNAs (small noncoding RNAs)   
[database](http://www.mirbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/529)

**miRecords**   
Experimentally validated miRNAs   
[database](http://mirecords.umn.edu/miRecords/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1278)

**miREX** Wojciech Karlowski   
Plant microRNA Expression data   
[database](http://bioinfo.amu.edu.pl/mirex)  [summary](http://www.oxfordjournals.org/nar/database/summary/1464)

**miRGator**   
microRNA target prediction, functional analysis, and gene expression data   
[database](http://genome.ewha.ac.kr/miRGator/miRGator.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1098)

**miRGen** Megraw M.1,2, Sethupathy P.1,2, Corda B.1,2 and Hatzigeorgiou A.G.1,2,3   
Animal microRNAs located in introns, exons, UTRs, pseudogenes and CpG islands   
[database](http://www.diana.pcbi.upenn.edu/miRGen/)  [summary](http://www.oxfordjournals.org/nar/database/summary/994)

**MIRIAM Registry?** Nick Juty   
Minimal Information Required In the Annotation of Models   
[database](http://www.ebi.ac.uk/miriam/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1502)

**miRNAMap**   
microRNA precursors and their mapping to targets in vertebrate genomes   
[database](http://mirnamap.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/895)

**miRNEST** Izabela Makalowska   
microRNAs in animal and plant EST sequences   
[database](http://mirnest.amu.edu.pl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1465)

**miROrtho**   
Computational prediction of animal microRNA genes   
[database](http://cegg.unige.ch/mirortho/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1232)

**miRTarBase**   
Experimentally validated microRNA-target interactions   
[database](http://mirtarbase.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1423)

**MiST - Microbial Signal Transduction database** Ulrich L.E.1,3 and Zhulin I.B.1,2,3   
Signal transduction proteins in complete microbial genomes   
[database](http://genomics.ornl.gov/mist/)  [summary](http://www.oxfordjournals.org/nar/database/summary/959)

**MitoDat**   
Mitochondrial proteins (predominantly human)   
[database](http://www-lecb.ncifcrf.gov/mitoDat/)  [summary](http://www.oxfordjournals.org/nar/database/summary/83)

**MitoDrome** Dâ€™Elia D.1, Catalano D.1, Licciulli F.1, Turi A.1, Tripoli G.2, Porcelli D.2, Saccone C.2,3 and Caggese C.2   
*Drosophila* nuclear-encoded proteins targeted to the mitochondrion   
[database](http://mitodrome.ba.itb.cnr.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/226)

**MitoGenesisDB** Jean-Christophe Gelly 1,2,3, Mickael Orgeurp 2, Claude Jacq 4 and Gae‰lle Lelandais 1,2,3   
Expression data to explore spatio-temporal dynamics of mitochondrial biogenesis   
[database](http://www.dsimb.inserm.fr/dsimb_tools/mitgene/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1320)

**MITOMAP**   
Human mitochondrial genome   
[database](http://www.mitomap.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/84)

**Mitome** Yong Seok Lee, Jeongsu Oh, and Ui Wook Hwang   
Comparative analysis of metazoan mitochondrial genomes   
[database](http://mitome.knu.ac.kr//)  [summary](http://www.oxfordjournals.org/nar/database/summary/1099)

**MitoMiner** Alan Robinson   
Mitochondrial proteomics data   
[database](http://mitominer.mrc-mbu.cam.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1550)

**MITOP2**   
Mitochondrial proteins, genes, and diseases   
[database](http://www.mitop2.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/86)

**MitoProteome**   
Mitochondrial protein sequences encoded by mitochondrial and nuclear genes   
[database](http://www.mitoproteome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/532)

**MitoRes** Catalano D.1, Licciulli F.1, Grillo G.1, Turi A.1, Saccone C.1,2 and D'Elia D.1   
Nuclear genes coding for mitochondrial proteins   
[database](http://mitores.ba.itb.cnr.it/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/85)

**MitoZoa** Lanave C.1, Licciulli F.2, Incampo L.2, Marolla A.2, Attimonelli M.2   
Mitochondrial genomes in Metazoa   
[database](http://mi.caspur.it/mitozoa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/64)

**MMCD**   
A resource for metabolomics research based on nuclear magnetic resonance spectroscopy and mass spectrometry.   
[database](http://mmcd.nmrfam.wisc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1181)

**MMDB** Madej, Tom; Addess, Kenneth; Fong, Jessica; Geer, Lewis; Geer, Renata; Lanczycki, Christopher; Liu, Chunlei; Lu, Shennan; Marchler-Bauer, Aron; Panchenko, Anna; Chen, Jie; Thiessen, Paul; Wang, Yanli'; Zhang, Dachuan; Bryant, Steve   
All experimentally-determined 3D structures, linked to NCBI Entrez   
[database](http://www.ncbi.nlm.nih.gov/Structure/)  [summary](http://www.oxfordjournals.org/nar/database/summary/270)

**MMMDB** Masahiro Sugimoto   
Mouse Multiple Tissue Metabolomics Database   
[database](http://mmdb.iab.keio.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1519)

**MMsINC**   
Database of commercially-available compounds for virtual screening and chemoinformatics   
[database](http://mms.dsfarm.unipd.it/MMsINC/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1239)

**MNCDB**   
MIPS Neurospora crassa database   
[database](http://mips.helmholtz-muenchen.de/genre/proj/ncrassa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/533)

**ModBase** Pieper, U., Eswar, N., Stuart, A.C., Braberg, H., Madhusudhan, M.S., Davis, F., Rossi, A., Marti-Renom, M.A., Sali, A.   
Annotated comparative protein structure models   
[database](http://salilab.org/modbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/331)

**modMine** Sergio Contrino   
Mining of modENCODE data   
[database](http://intermine.modencode.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1545)

**MODOMICS** Czerwoniec, A.1, Dunin-Horkawicz, S.2, Purta, E.3,4, Kaminska, K.H.3, Kasprzak, J.M.1, Bujnicki, J.M.1,3, Grosjean, H.5, and Rother, K.3   
A database of RNA modification pathways   
[database](http://genesilico.pl/modomics/)  [summary](http://www.oxfordjournals.org/nar/database/summary/840)

**MoKCa**   
Mutations of Kinases in Cancer   
[database](http://strubiol.icr.ac.uk/extra/mokca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1271)

**MolliGen**   
Genomic data on mollicutes   
[database](http://cbi.labri.fr/outils/molligen/)  [summary](http://www.oxfordjournals.org/nar/database/summary/534)

**MolMovDB - Database of Macromolecular Movements**   
Descriptions of protein and macromolecular motions, including movies   
[database](http://bioinfo.mbb.yale.edu/MolMovDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/262)

**MonarchBase** Zhan, S.1 and Reppert, S.M.1   
Genome biology of the monarch butterfly *Danaus plexippus*   
[database](http://monarchbase.umassmed.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1572)

**Monosaccharide Browser**   
Space filling Fischer projections of monosaccharides   
[database](http://www.terravivida.com/vivida/monosaccharide/)  [summary](http://www.oxfordjournals.org/nar/database/summary/535)

**MOPED** Eugene Kolker   
Model Organism Protein Expression Database   
[database](http://moped.proteinspire.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1547)

**MOsDB** Karlowski W.1, Schoof H.2,3, Spannagl M.2,3, Yang L.3 and Mayer K.F.X.3   
MIPS *Oryza sativa* database   
[database](http://mips.gsf.de/proj/plant/jsf/rice/index.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/536)

**Mouse Phenome Database** Bogue M., Grubb S., Maddatu T., Grubb, S. and Bult C.   
Phenotypic and genotypic data from inbred strains of mice   
[database](http://www.jax.org/phenome/)  [summary](http://www.oxfordjournals.org/nar/database/summary/995)

**Mouse SAGE**   
SAGE libraries from various mouse tissues and cell lines   
[database](http://mouse.img.cas.cz/sage/)  [summary](http://www.oxfordjournals.org/nar/database/summary/537)

**Mouse Transposon Insertion Database**   
Mouse transposon insertion database   
[database](http://mouse.ccgb.umn.edu/transposon/)  [summary](http://www.oxfordjournals.org/nar/database/summary/540)

**Mouse Tumor Biology Database** Bult C.J., Krupke D.M, Naf D., Sundberg J.P., Eppig J.T.   
Mouse tumor names, classification, incidence, pathology, genetic factors   
[database](http://tumor.informatics.jax.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/152)

**Mousebook** Andrew Blake, Karen Pickford, Simon Greenaway, Steve Thomas, Amanda Pickard, Christine M. Williamson, Niels C. Adams, Alison Walling, Tim Beck, Martin Fray, Jo Peters, Tom Weaver, Steve D. M. Brown, John M. Hancock, and Ann-Marie Mallon   
Mutant mouse lines held at MRC Harwell   
[database](http://www.mousebook.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1369)

**MouseIndelDB**   
Mouse Indel Polymorphism Database   
[database](http://variation.osu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1391)

**Mpact** Gueldener U.1, Muensterkoetter M.1, Oesterheld M.1, Pagel P.1, Ruepp A.1, Mewes H.W.1,2 and Stuempflen V.1   
Yeast protein-protein interaction data   
[database](http://mips.gsf.de/genre/proj/mpact/)  [summary](http://www.oxfordjournals.org/nar/database/summary/841)

**MPDB - Molecular Probe Database** Marra, D., Romano, P.   
Information on synthetic oligonucleotides proven useful as primers or probes   
[database](http://bioinformatics.istge.it/srs71m/)  [summary](http://www.oxfordjournals.org/nar/database/summary/296)

**MPID-T2** Ranganathan, S.1, Govindarajan, K.R.1, Kangueane, P.2, Tan, T.W.1   
Class I and Class II MHC-peptide complexes   
[database](http://biolinfo.org/mpid-t2/)  [summary](http://www.oxfordjournals.org/nar/database/summary/107)

**MPIM - Mitochondrial Protein Import Machinery**   
Mitochondrial protein import machinery of plants   
[database](http://www.plantenergy.uwa.edu.au/applications/mpimp/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/538)

**MPromDB**   
Mammalian promoter database   
[database](http://bioinformatics.wistar.upenn.edu/MPromDb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/842)

**MSY Breakpoint Mapper**   
Sequence-tagged sites in the human Y chromosome   
[database](http://breakpointmapper.wi.mit.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1100)

**MtbRegList** Jacques P.E.1,2, Gervais A.L.1,2, Cantin M.2, Lucier J.F.3, Dallaire G.2, Drouin G.1, Gaudreau L.1, Goulet J.2 and Brzezinski R.1   
Gene expression in *Mycobacterium tuberculosis*   
[database](http://www.usherbrooke.ca/vers/MtbRegList/)  [summary](http://www.oxfordjournals.org/nar/database/summary/896)

**MUGEN Mouse Database**   
Murine models of immune processes and immunological diseases14   
[database](http://www.mugen-noe.org/database/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1101)

**MulPSSM** Ramakrishnan G., Mohanty S., Krishnadev O. and Srinivasan N.   
A searchable database of multiple position specific scoring matrices of protein domain families.   
[database](http://mulpssm.mbu.iisc.ernet.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/844)

**MutDB**   
Predicted biochemical effects of human genetic variation: maping of SNPs on protein sequence and structure   
[database](http://mutdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1102)

**MvirDB** Zhou C.E.Z., Smith J., Lam M.W., Zemla A.T., Dyer M. and Slezak T.   
Protein toxins, virulence factors, and antibiotic resistance genes   
[database](http://mvirdb.llnl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/996)

**NAPP** Daniel Gautheret   
Nucleic Acid Phylogenetic Profile database   
[database](http://rna.igmors.u-psud.fr/NAPP)  [summary](http://www.oxfordjournals.org/nar/database/summary/1466)

**Narcisse**   
Conserved syntenies for various animal, plant and bacterial genomes   
[database](http://narcisse.toulouse.inra.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1103)

**NASCarrays**   
Nottingham Arabidopsis Stock Centre microarray database   
[database](http://affymetrix.arabidopsis.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/541)

**NATsDB** Yong Zhang1, Jiongtang Li1, Lei Kong1, Ge Gao1, Qing-Rong Liu2 and Liping Wei1   
Natural Antisense Transcripts DataBase   
[database](http://natsdb.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/997)

**NCBI BioSample/BioProject** Ilene Mizrachi   
BioProject and BioSample databases at NCBI   
[database](http://www.ncbi.nlm.nih.gov/biosample)  [summary](http://www.oxfordjournals.org/nar/database/summary/1457)

**NCBI BioSystems** Lewis Y. Geer, Aron Marchler-Bauer, Renata C. Geer, Lianyi Han, Jane He, Siqian He, Chunlei Liu, Wenyao Shi, and Stephen H. Bryant   
Biological pathways with associated literature, molecular, sequence, and chemical data   
[database](http://www.ncbi.nlm.nih.gov/biosystems)  [summary](http://www.oxfordjournals.org/nar/database/summary/1368)

**NCBI Bookshelf** Marilu Hoeppner   
No description supplied   
[database](http://www.ncbi.nlm.nih.gov/books)  [summary](http://www.oxfordjournals.org/nar/database/summary/1663)

**NCBI Epigenomics** Ian M. Fingerman, Lee McDaniel, Xuan Zhang, Walter Ratzat, Tarek Hassan, Zhifang Jiang, Robert F. Cohen, and Gregory D. Schuler   
Reference epigenome maps related to human health   
[database](http://www.ncbi.nlm.nih.gov/epigenomics/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1424)

**NCBI Protein database**   
All protein sequences: translated from GenBank and imported from other protein databases   
[database](http://www.ncbi.nlm.nih.gov/protein)  [summary](http://www.oxfordjournals.org/nar/database/summary/542)

**NCBI Taxonomy**   
Names of all organisms that are represented in GenBank   
[database](http://www.ncbi.nlm.nih.gov/Taxonomy/taxonomyhome.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/297)

**NCBI Viral genomes**   
Viral genome resource at NCBI   
[database](http://www.ncbi.nlm.nih.gov/genomes/VIRUSES/viruses.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/602)

**NCIR - Non-Canonical Interactions in RNA** Nagaswamy, U., Huang, H-C., Larios-Sanz, M., Wang, J., Zhao, Q., Fox, G.E.   
Non-standard base-base interactions in known RNA structures   
[database](http://prion.bchs.uh.edu/bp_type/)  [summary](http://www.oxfordjournals.org/nar/database/summary/380)

**NCL Resource** Mole, S.E.   
Mutations and polymorphisms in neuronal ceroid lipofuscinoses (NCL) genes   
[database](http://www.ucl.ac.uk/ncl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/142)

**ncRNAs database** Szymanski, M.1, Erdmann, V.A.2, Barciszewski, J.1   
Noncoding RNAs with regulatory functions   
[database](http://biobases.ibch.poznan.pl/ncRNA/)  [summary](http://www.oxfordjournals.org/nar/database/summary/381)

**NDB**   
Nucleic acid-containing structures   
[database](http://ndbserver.rutgers.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/272)

**Negatome** Pawel Smialowski, Philipp Pagel, Philip Wong, Barbara Brauner, Irmtraud Dunger, Gisela Fobo, Goar Frishman, Corinna Montrone, Thomas Rattei, Dmitrij Frishman, and Andreas Ruepp   
Non-interacting protein and domain pairs   
[database](http://mips.helmholtz-muenchen.de/proj/ppi/negatome)  [summary](http://www.oxfordjournals.org/nar/database/summary/1364)

**NegProt - Negative Proteome database**   
A tool for comparison of complete proteomes   
[database](http://superfly.ucsd.edu/negprot/)  [summary](http://www.oxfordjournals.org/nar/database/summary/703)

**NEIBank** Wistow G.1, Peterson K.1, Gao J.1, Buchoff P.1, Hauser M.A.2, Bowes Rickman C.3 and Hoover D.4   
EyeSAGE, EyeBrowse and Eye Disease Gene Databases   
[database](http://neibank.nei.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1025)

**Nematode.net** Mitreva, Makedonka; Martin, John,; Abubucker, Sahar; Heizer, Esley; Taylor, Christina   
Parasitic nematode sequencing project   
[database](http://nematode.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/543)

**Nematodes.org** Sujai Kumar   
Wiki for coordinating nematode sequencing projects   
[database](http://www.nematodes.org/nematodegenomes/index.php/Main_Page)  [summary](http://www.oxfordjournals.org/nar/database/summary/1564)

**NEMBASE**   
Nematode sequence and functional data database   
[database](http://www.nematodes.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/544)

**NESbase** la Cour, T.2, Gupta, R.1, Rapacki, K.1, Skriver, K.2, Poulsen, F. M.2, Brunak, S.1   
Nuclear export signals   
[database](http://www.cbs.dtu.dk/databases/NESbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/375)

**NetAffx**   
Public Affymetrix probesets and annotations   
[database](http://www.affymetrix.com/analysis/index.affx/analysis/index.affxanalysis/index.affx)  [summary](http://www.oxfordjournals.org/nar/database/summary/545)

**Network of Cancer Genes** An, O.1, Pendino, V.1, D'Antonio, M.1, Ratti, E.1, Gentilini, M.1, Ciccarelli, F.1,2   
Network properties of cancer genes   
[database](http://bio.ieo.eu/ncg)  [summary](http://www.oxfordjournals.org/nar/database/summary/1373)

**NetworKIN**   
Network approach to human protein kinases and their substrate proteins   
[database](http://networkin.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1104)

**NetwoRx** Kristen Fortney   
Chemogenomic experiments in yeast: connection of drug response to biological pathways, phenotypes, and networks   
[database](http://ophid.utoronto.ca/networx/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1623)

**Newt-omics** Thilo Borchardt   
Data on red spotted newt Notophthalmus viridescens   
[database](http://newt-omics.mpi-bn.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1526)

**neXtProt** Pascale Gaudet   
A knowledge for human proteins   
[database](http://www.nextprot.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1459)

**NGSmethDB** Michael Hackenberg 1, Guillermo Barturen 1 and Jos‚ L. Oliver 1   
Single-cytosine-resolution DNA methylation data   
[database](http://bioinfo2.ugr.es/meth/NGSmethDB.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1321)

**NHPRTR** Gary Schroth   
Nonhuman Primate Reference Transcriptome Resource   
[database](http://nhprtr.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1638)

**NIAS** Masaru Takeya 1, Fukuhiro Yamasaki 1, Shihomi Uzuhashi 2, Takayuki Aoki 1Hiroyuki Sawada 1, Toshirou Nagai 1, Keisuke Tomioka 1, Norihiko Tomooka 1,Toyozo Sato 1 and Makoto Kawase 1   
Databases for genetic resources and plant disease information   
[database](http://www.gene.affrc.go.jp/databases_en.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1322)

**NIH Genetic Testing Registry** Wendy Rubinstein   
No description supplied   
[database](http://www.ncbi.nlm.nih.gov/gtr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1641)

**NLSdb** Nair, Rajesh2, Carter, Phil1, Rost, Burkhard3   
Nuclear localization signals   
[database](http://rostlab.org/services/nlsdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/376)

**NMPdb - Nuclear matrix associated proteins database**   
Nuclear matrix associated proteins database   
[database](http://www.rostlab.org/db/NMPdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/704)

**NMPDR - National Microbial Pathogen Data Resource** Overbeek R.1, Stevens R.2,3, Aziz R.K.4, Bartels, D.2, Cohoon M.2, Disz T.2, Edwards R.A.1,5,6, Gerdes S.Y.1, Hwang K.2, Kubal M.2, Margaryan G.R.2, McNeil L.K.7, Meyer F.2,3, Mihalo W.2, Olsen G.J.8, Olson R.2, Osterman A.L.1,6, Paarmann D.2, Paczian T.2, Parrello B.1, Pusch G.D.1,2, Reich C.7,8, Rodionov D.A.6, Shi X.2, Vassieva O.1, Vonstein V.1, Zagnitko O.P.1, Xia F.2, Zinner J.2   
A database for functional annotation and comparative analysis of microbial genomes   
[database](http://www.nmpdr.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1040)

**NNDB** Douglas H. Turner and David H. Mathews   
Nearest Neighbor parameters for predicting RNA folding   
[database](http://rna.urmc.rochester.edu/NNDB)  [summary](http://www.oxfordjournals.org/nar/database/summary/1349)

**non-B DB** Regina Z. Cer, Kevin H. Bruce, Uma S. Mudunuri, Ming Yi, Natalia Volfovsky, Brian T. Luke, Albino Bacolla, Jack R. Collins, and Robert M. Stephens   
non-B DNA forming motifs in mammalian genomes   
[database](http://nonb.abcc.ncifcrf.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1425)

**NONCODE** Zhao, Yi; Chen, Run-Sheng; Bu, Dechao; Yu, Kuntao; Sun, Silong; Xie, Chaoyong; Miao, Ruoyu; Xiao, Hui; Liao, Qi; Luo, Haitao; Zhao, Guoguang; Liu, Zhiyong; Liu, Changning   
A database of noncoding RNAs   
[database](http://noncode.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/705)

**NOPdb: Nucleolar Proteome Database** Leung A.K.1, Trinkle-Mulcahy L2. and Lamond, A.I.2   
Nucleolar proteome database   
[database](http://www.lamondlab.com/NOPdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/706)

**NORINE**   
A database of nonribosomal peptides   
[database](http://bioinfo.lifl.fr/norine/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1105)

**NPACT** Subhash Agarwal   
Naturally occuring Plant based Anticancerous Compound Targets   
[database](http://crdd.osdd.net/raghava/npact/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1654)

**NPD - Nuclear Protein Database** Dellaire, G.1, Farrall, R.2, Bickmore, W.A.2   
Proteins localized in the nucleus   
[database](http://npd.hgu.mrc.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/369)

**NPIDB (Nucleic Acid - Protein Interaction DataBase)** Sergei Spirin   
Database of structures of nucleic acid - protein complexes   
[database](http://npidb.belozersky.msu.ru/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1665)

**NPInter** Wu T.1,3, Wang J.1,3, Liu C.2,3, Zhang Y.1,3, Shi B.1,3, Zhu X.1,3, Zhang Z.1,3, SkogerbÃ˜ G.1, Chen L.2,3, Lu H.2,3, Zhao Y.2 and Chen R.1,2   
Noncoding RNA-protein interactions   
[database](http://www.bioinfo.org.cn/NPInter/)  [summary](http://www.oxfordjournals.org/nar/database/summary/845)

**NPRD - Nucleosome Positioning Region Database**   
Nucleosome positioning region database   
[database](http://srs6.bionet.nsc.ru/srs6/)  [summary](http://www.oxfordjournals.org/nar/database/summary/707)

**NRED**   
Noncoding RNA Expression Database   
[database](http://jsm-research.imb.uq.edu.au/nred/cgi-bin/ncrnadb.pl)  [summary](http://www.oxfordjournals.org/nar/database/summary/1195)

**NRESTdb** Mohd-Noor Mat-Isa1, Ahmad-Fuad-Hilmi Mohamad1, Mohd-Yunus Shahrum4, Chee-Choong Hoh2, Mohd-Rashdi Mohd-Amin1, Khairil-Anuar Zainal1, Hoong-Yeet Yeang3, Kiew-Lian Wan1,2 Keng-See Chow3   
Natural Rubber EST Database   
[database](http://www.genomemalaysia.gov.my/nrestdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/921)

**NRG-CING** Jurgen Doreleijers   
Validated NMR structures of proteins and nucleic acid   
[database](http://nmr.cmbi.ru.nl/NRG-CING)  [summary](http://www.oxfordjournals.org/nar/database/summary/1496)

**NRSub**   
Bacillus subtilis genome   
[database](http://pbil.univ-lyon1.fr/nrsub/nrsub.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/89)

**NTDB** Chiu, W. L. A. K., Sze, C. N., Ma, N. T., Chiu, L. F., Leung, C. W., Au-Yeung, S. C. F.   
Thermodynamic data for nucleic acids   
[database](http://ntdb.chem.cuhk.edu.hk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/273)

**Nuclear Receptor Resource** Danielsen, M., Martinez, E.   
Nuclear receptor superfamily   
[database](http://nrr.georgetown.edu/NRR/nrrhome.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/182)

**NucleaRDB** Vroling, Bas; Thorne, David; McDermott, Philip; Joosten, Henk-Jan; Attwood, Teresa; Pettifer, Steve; Vriend, Gert   
Nuclear receptor superfamily   
[database](http://www.receptors.org/NR/)  [summary](http://www.oxfordjournals.org/nar/database/summary/546)

**NURSA** Neil McKenna   
Nuclear Receptor Signaling Atlas   
[database](http://www.nursa.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/789)

**O-GLYCBASE** Julenius, K., Rapacki, K., Brunak, S., Gupta, R.   
O- and C-linked glycosylation sites in proteins   
[database](http://www.cbs.dtu.dk/databases/OGLYCBASE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/209)

**ODB - Operon database** Okuda S.1, Katayama T.2, Kawashima S.2, Goto S.1 and Kanehisa M.1   
Operon database   
[database](http://operondb.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/846)

**OGEE** Weihua Chen   
Online GEne Essentiality database   
[database](http://ogeedb.embl.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1527)

**OGRe - Organellar Genome Retrieval** Tang B., Xu W., Jameson D., Higgs P.   
Mitochondrial genome sequences, gene orders and codon usage tables   
[database](http://ogre.mcmaster.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/547)

**OikoBase** John Manak   
A curated genome expression database of Oikopleura dioica   
[database](http://www.oxfordjournals.org/nar/database/a/128.255.39.186/Oiko/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1639)

**OKCAM**   
Ontology-based Knowledgebase for Cell Adhesion Molecules   
[database](http://okcam.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1186)

**Olfactory Receptor Database**   
Sequences for lfactory receptor-like molecules   
[database](http://senselab.med.yale.edu/senselab/ordb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/184)

**OligoArrayDb**   
Pangenomic sets of microarray probes for organisms with fully sequenced genomes   
[database](http://berry.engin.umich.edu/oligoarraydb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1253)

**OMA** Adrian M. Altenhoff, Adrian Schneider, Gaston H. Gonnet, and Christophe Dessimoz   
Orthologous MAtrix: orthology inference among 1000 complete genomes   
[database](http://www.omabrowser.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1426)

**OMIA - Online Mendelian Inheritance in Animals** Nicholas F.W.   
Catalog of animal genetic and genomic disorders   
[database](http://omia.angis.org.au/)  [summary](http://www.oxfordjournals.org/nar/database/summary/548)

**OMIM - Online Mendelian Inheritance in Man**   
Catalog of human genetic and genomic disorders   
[database](http://www.ncbi.nlm.nih.gov/sites/entrez?db=omim)  [summary](http://www.oxfordjournals.org/nar/database/summary/143)

**OMPdb** Konstantinos D. Tsirigos 1, Pantelis G. Bagos 2 and Stavros J. Hamodrakas 1   
Beta-barrel outer membrane proteins from Gram-negative bacteria   
[database](http://aias.biol.uoa.gr/OMPdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1323)

**OncoDB.HCC** Su WH, Chao CC, Yeh SH, Chen DS, Chen PJ, Jou YS   
Oncogenomic database of hepatocellular carcinoma   
[database](http://oncodb.hcc.ibms.sinica.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1026)

**OncoMine**   
Cancer microarray data by gene or cancer type   
[database](http://www.oncomine.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/709)

**ooTFD** Ghosh D.   
Transcription factors and gene expression   
[database](http://www.ifti.org/ootfd)  [summary](http://www.oxfordjournals.org/nar/database/summary/185)

**Open Proteomics Database**   
Mass-spectrometry-based proteomics data for human, yeast, *E.coli* and *Mycobacterium*   
[database](http://bioinformatics.icmb.utexas.edu/OPD/)  [summary](http://www.oxfordjournals.org/nar/database/summary/710)

**OperonDB**   
Predicted operons in bacterial and archaeal genomes   
[database](http://www.cbcb.umd.edu/cgi-bin/operons/help.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/1259)

**OPM** Andrei L. Lomize   
Orientations of Proteins in Membranes database   
[database](http://opm.phar.umich.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1478)

**OPTIC**   
Orthologous and Paralogous Transcripts in Clades   
[database](http://genserv.anat.ox.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1106)

**ORegAnno**   
Open REGulatory ANNOtation database   
[database](http://www.oreganno.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1107)

**ORENZA** Lespinet O. and Labedan B.   
Web resource for studying ORphan ENZyme Activities   
[database](http://www.orenza.u-psud.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/998)

**ORFDB**   
Collection of ORFs that are sold by Invitrogen   
[database](http://orf.invitrogen.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/550)

**Organelle DB** Wiwatwattana N., Landau C., Cope G.J., Harp G., and Kumar A.   
Organelle proteins and subcellular structures   
[database](http://organelledb.lsi.umich.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/713)

**Organelle genomes**   
Organelle genome resource at NCBI   
[database](http://www.ncbi.nlm.nih.gov/genomes/ORGANELLES/organelles.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/601)

**OriDB - The DNA Replication Origin Database** Nieduszynski, Conrad; Siow, Cheuk; Nieduszynska, Sian; MÃ¼ller, Carolin1   
Confirmed and predicted DNA replication origin sites   
[database](http://www.oridb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/931)

**OrthoDB**   
An hierarchical catalog of orthologous proteins in metazoa   
[database](http://cegg.unige.ch/orthodb/browse)  [summary](http://www.oxfordjournals.org/nar/database/summary/1108)

**OrtholugeDB** Whiteside, M.D., Winsor, G.L., Laird, M.R., Brinkman, F.S.L.   
OrtholugeDB: a bacterial and archaeal orthology resource for improved comparative genomic analysis   
[database](http://www.pathogenomics.sfu.ca/ortholugedb)  [summary](http://www.oxfordjournals.org/nar/database/summary/1573)

**OrthoMCL** Chen F., Mackey A.J., Stoeckert C.J.,Jr. and Roos D.S.   
Orthologous protein clusters from multiple genomes   
[database](http://orthomcl.cbil.upenn.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/847)

**OryGenesDB**   
Rice genes, T-DNA and Ds flanking sequence tags   
[database](http://orygenesdb.cirad.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/848)

**OrysPSSP** Xuan Li   
Small secreted proteins from rice   
[database](http://genoportal.org/PSSP/index.do)  [summary](http://www.oxfordjournals.org/nar/database/summary/1659)

***Oryza* Tag Line** P. Larmande1, C. Gay1, C. Sallaud1, C. PÉrin1, P. Perez2, M. Lorieux3, J.B. Morel4, A.A.T. Johnson1, M. Ruiz1, B. Courtois1 and E. Guiderdoni1   
T-DNA insertion mutants of rice   
[database](http://urgi.versailles.inra.fr/OryzaTagLine/)  [summary](http://www.oxfordjournals.org/nar/database/summary/628)

**Oryzabase** Yamazaki, Y.1, Yoshimura, A.3, Nagato, Y.2, Yamakawa, T.1, Kurata, N.4   
Rice genetics and genomics   
[database](http://www.shigen.nig.ac.jp/rice/oryzabase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/90)

**P2CS** Mohamed Barakat, Philippe Ortet, and David E. Whitworth   
Prokaryotic 2-Component Systems   
[database](http://www.p2cs.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1427)

**P3DB**   
Plant protein phosphorylation database   
[database](http://digbio.missouri.edu/p3db/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1245)

**PA-GOSUB**   
Protein sequences from model organisms, GO assignment and subcellular localization   
[database](http://webdocs.cs.ualberta.ca/~bioinfo/PA/)  [summary](http://www.oxfordjournals.org/nar/database/summary/714)

**PAHdb** Scriver, C.R.1, Hurtubise, M.1, Konecki, D.2, Phommarinh, M.1, Prevost, L.1, Erlandsen, H.3, Stevens, R.3, Waters, P.J.4, Ryan, S.1, McDonald, D.5, Sarkissian, C.1   
Mutations at the phenylalanine hydroxylase locus   
[database](http://www.pahdb.mcgill.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/144)

**PAIDB - Pathogenicity Island Database** Yoon S.H.1, Hur C.-G.2, Oh T.K.3, and Kim J.F.1   
Pathogenicity islands in bacterial genomes   
[database](http://www.gem.re.kr/paidb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/944)

**PAIR** Mingzhi Lin 1, Xueling Shen 2 and Xin Chen 1,2   
Predicted Arabidopsis Interactome Resource   
[database](http://www.cls.zju.edu.cn/pair/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1324)

**PALI** Rakesh R., Bhaskara R. M., and Srinivasan N.   
A Database of pairwise and multiple structural alignments of memnbers of protein domain families of known 3-D structured and structure based phylogenies. Alignments involving members of domain families with not necessarily known 3-D structure are also available in the database.   
[database](http://pali.mbu.iisc.ernet.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/274)

**Pancreas Expression** Rosalind J. Cutts 1, Emanuela Gadaleta 1, Stephan A. Hahn 2, Tatjana Crnogorac-Jurcevic1, Nicholas R. Lemoine 1 and Claude Chelala 1   
Pancreatic Expression database   
[database](http://www.pancreasexpression.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1325)

**PANDIT**   
Protein and associated nucleotide domains with inferred trees   
[database](http://www.ebi.ac.uk/goldman-srv/pandit/)  [summary](http://www.oxfordjournals.org/nar/database/summary/608)

**PANTHER**   
Protein sequence evolution mapped to functions and pathways   
[database](http://www.pantherdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/552)

**PANZEA** Zhao W.1, Canaran P.1, Jurkuta R.2, Fulton T.3, Glaubitz J.2, Buckler E.3,4, Doebley J.2, Gaut B.5, Goodman M.6, Holland J.6,7, Kresovich S.3, McMullen M.8,9, Stein L.1 and Ware D.1,4   
Maize genome project data   
[database](http://www.panzea.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/849)

**Papillomavirus Episteme** Alison McBride   
A database of Papillomaviridae family of viruses   
[database](http://pave.niaid.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1619)

**ParameciumDB** Arnaiz 0. and Sperling L.   
*Paramecium* genome sequencing project   
[database](http://paramecium.cgm.cnrs-gif.fr/db/index)  [summary](http://www.oxfordjournals.org/nar/database/summary/917)

**PartiGeneDB**   
Assembled partial genomes for ~250 eukaryotic organisms   
[database](http://www.partigenedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/715)

**PASS2** Sowdhamini, Ramanathan; Gandhimathi, Arumugam; Nair, Anu   
Structural motifs of protein superfamilies   
[database](http://caps.ncbs.res.in/pass2/)  [summary](http://www.oxfordjournals.org/nar/database/summary/275)

**PathBase**   
European mutant mice pathology database: histopathology photomicrographs and macroscopic images   
[database](http://www.pathbase.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/554)

**Pathguide** Bader G.D., Cary M.P. and Sander C.   
A listing of pathway, signal transduction and protein-protein interaction databases   
[database](http://pathguide.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/898)

**PathoPlant®** Bülow L.1, Schindler M.2 and Hehl R.1   
Signal transduction related to plant-pathogen interactions   
[database](http://www.pathoplant.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/999)

**Pathway Commons** Ethan G. Cerami, Benjamin E. Gross, Emek Demir, Igor Rodchenkov, Ã–zgÃ¼n Babur, Nadia Anwar, Nikolaus Schultz, Gary D. Bader, and Chris Sander   
Metabolic and signaling pathways from multiple organisms   
[database](http://www.pathwaycommons.org/pc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1428)

**Patome** Byungwook Lee1,2, Taehyung Kim1, Seon-Kyu Kim1, Kwang H. Lee2 and Doheon Lee2   
Annotated sequences from patents and patent applications   
[database](http://www.patome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/933)

**PATRIC** Alice R. Wattam1\*, David Abraham1, Oral Dalay1, Terry L. Disz2, 3, Timothy Driscoll1, Joseph L. Gabbard1,4, Roger Gough1, Deborah Hix1, Ronald Kenyon1, Dustin Machi1, Chunhong Mao1, Eric K. Nordberg1, Robert Olson2, 3, Ross Overbeek3, 5, Gordon D. Pusch5, Maulik Shukla1, Julie Schulman1, Rick L. Stevens2, 6, Daniel E. Sullivan1, Veronika Vonstein5, Andrew Warren1, Rebecca Will1, Meredith J.C. Wilson1, Hyun Seung Yoo1, Chengdong Zhang1, Yan Zhang1, Bruno W. Sobral1,7   
PATRIC, the bacterial bioinformatics database and analysis resource   
[database](http://www.patricbrc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1000)

**Patrocles** Samuel Hiard, Carole Charlier, Wouter Coppieters, Michel Georges, and Denis Baurain   
Polymorphic miRNA-mediated gene regulation in vertebrates   
[database](http://www.patrocles.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1372)

**PAZAR**   
Transcription factors and regulatory sequence annotations   
[database](http://www.pazar.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1258)

**PBmice**   
piggyBac transposon insertions in the mouse genome.   
[database](http://idm.fudan.edu.cn/PBmice/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1110)

**PCDB** Ezequiel I. Juritz, Sebastian Fernandez Alberti, and Gustavo D. Parisi   
Protein Conformational Diversity database   
[database](http://pcdb.unq.edu.ar/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1429)

**PCDDB** Lee Whitmore, Benjamin Woollett, Andrew John Miles, D.P. Klose, Robert W. Janes, and B. A. Wallace   
Protein Circular Dichroism Database   
[database](http://pcddb.cryst.bbk.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1430)

**PCRPi-DB** Joan Segura and Narcis Fernandez-Fuentes   
Presaging Critical Residues in Protein interface DataBase   
[database](http://www.bioinsilico.org/PCRPIDB)  [summary](http://www.oxfordjournals.org/nar/database/summary/1431)

**PDB**   
Protein structure databank: all publicly available 3D structures of proteins and nucleic acids   
[database](http://www.rcsb.org/pdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/276)

**PDB-Ligand** Jae-Min Shin and Doo-Ho Cho   
3D structures of small molecules bound to proteins and nucleic acids   
[database](http://www.idrtech.com/PDB-Ligand/)  [summary](http://www.oxfordjournals.org/nar/database/summary/615)

**PDB-REPRDB** Noguchi, T., Akiyama, Y.   
Representative protein chains, based on PDB entries   
[database](http://mbs.cbrc.jp/pdbreprdb-cgi/reprdb_menu.pl)  [summary](http://www.oxfordjournals.org/nar/database/summary/277)

**PDBe** Velankar, Sameer; Alhroub, Younes; Best, Christoph; Caboche, SÃ©golÃ¨ne; Conroy, Matthew; Dana, JosÃ©; Fernandez Montecelo, Manuel; van Ginkel, Glen; Golovin, Adel; Gore, Swanand; Gutmanas, Alexandras; Haslam, Pauline; Hendrickx, Pieter; Heuson, Egon; Hirshberg, Miriam; John, Melford; Lagerstedt, Ingvar; Mir, Saqib; Oldfield, Thomas; Patwardhan, Ardan; Rinaldi, Luana; Sahni, Gaurav; Sanz Garcia, Eduardo; Sen, Sanchayita; Slowley, Robert; Suarez-Uruena, Antonio; Swaminathan, Jawahar; Symmons, Martyn; Vranken, Wim; Wainwright, Michael; Kleywegt, Gerard   
Protein Data Bank in Europe   
[database](http://www.ebi.ac.uk/pdbe/)  [summary](http://www.oxfordjournals.org/nar/database/summary/456)

**PDBj** Haruki Nakamura   
Protein Data Bank Japan   
[database](http://pdbj.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1487)

**PDBselect** Heinz-Uwe Hobohm   
Representative protein structures with low sequence identity   
[database](http://bioinfo.tg.fh-giessen.de/pdbselect/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1177)

**PDBSite**   
3D structure of protein functional sites   
[database](http://srs6.bionet.nsc.ru/srs6bin/cgi-bin/wgetz?-page+LibInfo+-newId+-lib+PDBSite)  [summary](http://www.oxfordjournals.org/nar/database/summary/717)

**PDBsum** Laskowski, R.A.   
Summaries and analyses of PDB structures   
[database](http://www.ebi.ac.uk/pdbsum)  [summary](http://www.oxfordjournals.org/nar/database/summary/278)

**PDB\_TM** GÁbor E. TusnÁdy, Zsuzsanna DosztÁnyi and IstvÁn Simon   
Transmembrane proteins with known 3D structure   
[database](http://pdbtm.enzim.hu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/619)

**PDZBase**   
Protein-protein interactions involving PDZ domains   
[database](http://icb.med.cornell.edu/services/pdz/start)  [summary](http://www.oxfordjournals.org/nar/database/summary/718)

**PEC - Profiling of *E. coli* Chromosome**   
Comprehensive database on *E. coli* genome   
[database](http://shigen.lab.nig.ac.jp/ecoli/pec/)  [summary](http://www.oxfordjournals.org/nar/database/summary/555)

**PEDANT** Frishman, D.1, Mokrejs, M.1, Kosykh, D.1, KastenmÃƒÂ¼ller, G.1, Kolesov, G.1, Zubrzycki, I.1, Gruber, C.2, Geier, B.2, Kaps, A.2, Albermann, K.2, Volz, A.2, Wagner, C.2, Fellenberg, M.2, Heumann, K.2, Mewes, H.-W.3   
Automated analysis of genomic sequences   
[database](http://pedant.gsf.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/354)

**PEDE - Pig Expression Data Explorer** Uenishi H.1,3, Eguchi-Ogawa T.1,3, Shinkai H.2,3, Okumura N.2,3, Suzuki K.2,3, Toki D.2,3, Hamasima N.1,3, Awata T.1,3   
Full-length pig cDNA libraries and ESTs   
[database](http://pede.dna.affrc.go.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/556)

**PEP: Predictions for Entire Proteomes** Carter, P.1, Liu, J.2, Rost, B.1   
Summarized analyses of protein sequences   
[database](http://cubic.bioc.columbia.edu/pep/)  [summary](http://www.oxfordjournals.org/nar/database/summary/377)

**PepCyber:P~Pep**   
Human protein interactions mediated by phosphoprotein-binding domains   
[database](http://pepcyber.umn.edu/PPEP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1111)

**PEPR - Public Expression Profiling Resource**   
Expression profiles in a variety of diseases and conditions   
[database](http://pepr.cnmcresearch.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/558)

**PepSeeker**   
Peptide identification and ion information from proteome experiments   
[database](http://www.oxfordjournals.org/nar/database/a/nwsr.smith.man.ac.uk/pepseeker/)  [summary](http://www.oxfordjournals.org/nar/database/summary/850)

**Peptaibol** Whitmore, L., Wallace, B.A.   
Peptaibol (antibiotic peptide) sequences   
[database](http://peptaibol.cryst.bbk.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/186)

**PeptideAtlas** Desiere F., Deutsch E.W., King N.L., Nesvizhskii A.I, Mallick P., Eng J., Chen S., Eddes J., Loevenich S.N., and Aebersold R.   
Peptides identified in LC-MS/MS proteomics experiments   
[database](http://www.peptideatlas.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/851)

**PepX** Peter Vanhee, Joke Reumers, Francois Stricher, Lies Baeten, Luis Serrano, Joost Schymkowitz, and Frederic Rousseau   
A non-redundant database of protein-peptide complexes   
[database](http://pepx.switchlab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1366)

**PeroxiBase**   
Peroxidases from plants, bacteria and fungi   
[database](http://peroxibase.toulouse.inra.fr/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1218)

**PeroxisomeDB** SchlÜter A.1, Fourcade S.1, DomÈnech-EstÉvez E.1, GabaldÓn T.2, Huerta-Cepas J.2, Berthommier G.3, Ripp R.3, Wanders R.J.A. 4, Poch O.3 and Pujol A.1,5   
Peroxisomal proteins, metabolic routes and diagnostic tools   
[database](http://www.peroxisomedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1001)

**Pfam** Punta, Marco; Coggill, Penny; Eberhardt, Ruth; Mistry, Jaina; Tate, John; Boursnell, Chris; Pang, Ningze; Forslund, Kristoffer; Ceric, Goran; Clements, Jody; Heger, Andreas; Holm, Liisa; Sonnhammer, Erik L.L.; Eddy, Sean; Bateman, Alex; Finn, Robert   
Multiple sequence alignments and hidden Markov models of common protein domains   
[database](http://pfam.sanger.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/210)

**PFD - Protein Folding Database** Buckle A.M.   
Experimental data on protein folding   
[database](http://www.oxfordjournals.org/nar/database/a/??http://pfd.med.monash.edu.au/)  [summary](http://www.oxfordjournals.org/nar/database/summary/719)

**PGDB**   
Prostate and prostatic diseases gene database   
[database](http://www.urogene.org/pgdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/559)

**PGDD** Tae-Ho Lee   
Plant Genome Duplication Database   
[database](http://chibba.agtec.uga.edu/duplication/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1657)

**PGTdb - Prokaryotic Growth Temperature database**   
Prokaryotic growth temperature database   
[database](http://pgtdb.csie.ncu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/720)

**PharmGED**   
PharmacoGenetic Effect Database   
[database](http://bidd.cz3.nus.edu.sg:8080/phg/index.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/1002)

**PharmGKB** Altman R.B., Carrillo M.W., Gong M, Gor W., Hernandez-Boussard T., Holbert D., Kiuchi M., MacBride A., Murray T., Liu F., Thorn C.F., Woon M., Truong T., Zhou T. and Klein T.E.   
Variation in drug response based on human variation   
[database](http://www.pharmgkb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/392)

**PhenoM** Zhaolei Zhang   
Morphological database of essential yeast genes   
[database](http://phenom.ccbr.utoronto.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1510)

**PhenomicDB** Groth P.1, Pavlova N.2, Kalev I.2,Tonov S.2, Georgiev G.2, Pohlenz H.D.1 andWeiss B.1   
A cross-species genotype/phenotype database   
[database](http://www.phenomicdb.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/665)

**PhEVER** Leonor Palmeira, Simon Penel, Vincent Lotteau, Chantal Rabourdin-Combe, and Christian Gautier   
Phylogenetic Exploration of Viruses and their Evolutionary Relationships   
[database](http://pbil.univ-lyon1.fr/databases/phever/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1432)

**PHEXdb** Sabbagh, Y., Tenenhouse, H.S.   
Mutations in PHEX gene causing X-linked hypophosphatemia   
[database](http://www.phexdb.mcgill.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/145)

**PHI-base** Winnenburg R.1, Baldwin T.K.2, Urban M.2, Rawlings C.1, KÃ¶hler J.1 and Hammond-Kosack K.E.2   
Fungal Pathogen Host Interactions   
[database](http://www.phi-base.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/852)

**phiSITE** Lubos Klucar, Matej Stano, and Matus Hajduk   
Gene regulation in bacteriophages   
[database](http://www.phisite.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1356)

**PHOSIDA** Florian Gnad, Jeremy Gunawardena, and Matthias Mann   
Phosphorylation sites in various species identified by mass spectrometry   
[database](http://www.phosida.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1433)

**PhosPhAt**   
Arabidopsis Protein Phosphorylation Site Database   
[database](http://phosphat.mpimp-golm.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1112)

**Phospho.ELM** Dinkel, Holger; Michael, Sushama; Weatheritt, Robert; Davey, Norman; Roey, Kim; Altenberg, Brigitte; Toedt, Grischa; Uyar, Bora.; Seiler, Markus; Budd, Aidan; JÃ¶dicke, Lisa; Dammert, Marcel; Schroeter, Christian; Hammer, Maria; Jehl, Peter; McGuigan, Caroline; Dymecka, Magdalene; Chica, Claudia,; Luck, Katja; Via, Allegra; Chatr-Aryamontri, Andrew; Haslam, Niall; Grebnev, Gleb; Edwards, Richard; Steinmetz, Michel; Diella, Francesca; Gibson, Toby   
Eukaryotic linear motif: functional sites in eukaryotic proteins   
[database](http://www.phosphosite.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/187)

**Phospho3D** Zanzoni A., Ausiello G., Via A., Gherardini P.F. and Helmer-Citterich M.   
3D structures of protein phosphorylation sites   
[database](http://www.biocomputing.it/phospho3d/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1003)

**PhosphoSItePlus** Peter Hornbeck   
Protein phosphorylation sites and other post-translational modifications   
[database](http://www.phosphosite.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1469)

**PhyloFacts** Krishnamurthy N., Brown D., Kirshner D., Glanville J. and SjÖlander K.   
Phylogenomic analysis of protein families   
[database](http://phylogenomics.berkeley.edu/phylofacts/)  [summary](http://www.oxfordjournals.org/nar/database/summary/981)

**PhylomeDB**   
Experimentally validated and predicted serine phosphorylation sites in Arabidopsis thaliana   
[database](http://phylomedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1113)

**PhyloPat**   
Phylogenetic patterns of genes from the Ensembl database   
[database](http://www.cmbi.ru.nl/phylopat/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1200)

**PhytAMP**   
Data repository of plant natural antimicrobial peptides   
[database](http://phytamp.pfba-lab-tun.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1206)

**PHYTOPROT**   
Clusters of predicted plant proteins   
[database](http://urgi.versailles.inra.fr/phytoprot/)  [summary](http://www.oxfordjournals.org/nar/database/summary/560)

**Phytozome** David M Goodstein   
JGI's platform for green plant genomics   
[database](http://www.phytozome.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1551)

**PID**   
NCI-Nature Pathway Interaction Database   
[database](http://pid.nci.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1204)

**PIDD** Wu D.1, Cui F.1, Jernigan R.2 and Wu Z.3   
A database of protein inter-atomic distances   
[database](http://pidd.math.iastate.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/954)

**PIECE** Yong Qiang Gu   
Plant Intron Exon Comparison and Evolution   
[database](http://wheat.pw.usda.gov/piece/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1658)

**PIG - Pathogen Interaction Gateway**   
Host-pathogen protein-protein interactions   
[database](http://pig.vbi.vt.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1263)

**PigGIS** Ruan J.1,2, Guo Y.1,2, Li H.1, Hu Y.1, Song F.1, Huang X.1, Ma L.1,2, Kristiensen K.3, Bolund L.1,4 and Wang J.1,3,4   
Pig genome mapping, genes and ESTs   
[database](http://pig.genomics.org.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/936)

**PINA** Jianmin Wu   
Protein Interaction Network Analysis   
[database](http://cbg.garvan.unsw.edu.au/pina/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1524)

**PINdb**   
Proteins interacting in nucleus (human and yeast)   
[database](http://pin.mskcc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/773)

**PINT** Shaji Kumar M.D.1 and Gromiha M.M.2   
Protein-protein interactions thermodynamic database   
[database](http://www.bioinfodatabase.com/pint/)  [summary](http://www.oxfordjournals.org/nar/database/summary/854)

**PIPs**   
Predicted human protein-protein interactions   
[database](http://www.compbio.dundee.ac.uk/www-pips/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1285)

**PIR - Protein Information Resource** Wu C.H.1, Yeh L.S.2, Huang H.1 and Barker W.C.2   
PIR protein sequence database, has been merged into UniProt Knowledgebase and UniParc   
[database](http://pir.georgetown.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/194)

**piRNABank**   
Sequences and properties of Piwi-interacting RNAs (piRNAs) in human, mouse and rat   
[database](http://pirnabank.ibab.ac.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1114)

**PIRSF** Natale, D.A.1, Arighi, C.1, Barker, W.C.2, Hu, Z. Z. 1, Huang, H.1, Mazumder, R. 1, Nikolskaya, A. N. 1, Vasudevan. S.2, Vinayaka, C. R.2, Yeh, L.S.2, Wu, C. H.1   
PIR's family/superfamily classification of whole proteins   
[database](http://pir.georgetown.edu/pirsf/)  [summary](http://www.oxfordjournals.org/nar/database/summary/561)

**piSite**   
Database of Protein Interaction Sites using multiple binding states in PDB   
[database](http://pisite.hgc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1208)

**PLACE** Higo, K.   
Plant cis-acting regulatory elements   
[database](http://www.dna.affrc.go.jp/PLACE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/40)

**PLANdbAffy** Ramil N. Nurtdinov, Mikhail O. Vasiliev, Anna S. Ershova, Ilia S. Lossev, and Anna S. Karyagina   
Probe-Level Annotation Database for Affymetrix microarrays   
[database](http://affymetrix2.bioinf.fbb.msu.ru/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1380)

**Plant DNA C-values database** Bennett M.D. and, Leitch I.J.   
Genome sizes of various plants and algae   
[database](http://www.kew.org/genomesize/homepage.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/956)

**Plant Genome Central**   
NCBI's portal for various large-scale plant genome and EST sequencing projects   
[database](http://www.ncbi.nlm.nih.gov/genomes/PLANTS/PlantList.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/562)

**Plant Metabolomics** Preeti Bais   
Arabidopsis metabolomics database   
[database](http://plantmetabolomics.vrac.iastate.edu/ver2/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1554)

**Plant MPSS** Nakano M.1, Nobuta K.1, Vemaraju K.2, Singh Tej S.2, Skogen J.W.2, and Meyers B.C.1,2   
Massively parallel signature sequencing of plant genes   
[database](http://mpss.udel.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/843)

**Plant Ontology database** Jaiswal P.1, Avraham S.2, Ilic K.3, Kellogg E.A.4, McCouch S.1, Pujar A.1, Reiser L.3, Rhee S.Y.3, Sachs M.M.5,6, Schaeffer M.6,7, Stein L.2, Stevens P. 4,8, Vincent L.7, Ware D.2,6, Zapata F.4,8   
A controlled vocabulary of plant structures and growth stages   
[database](http://www.plantontology.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/926)

**Plant Organelles Database**   
Images of plant organelles and protocols for plant organelle research12   
[database](http://podb.nibb.ac.jp/Organellome/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1115)

**Plant repeat database**   
Repetitive sequences in plant genomes   
[database](http://plantrepeats.plantbiology.msu.edu/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/588)

**Plant snoRNA DB**   
snoRNA genes in plant species   
[database](http://bioinf.scri.sari.ac.uk/cgi-bin/plant_snorna/home)  [summary](http://www.oxfordjournals.org/nar/database/summary/564)

**Plant Stress-Responsive Gene Catalog**   
Stress-responsive gene in various plant species   
[database](http://dayhoff.generationcp.org:8080/DayhoffWeb2/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1116)

**PLANT-PIs** Consiglio A., Grillo G., Licciulli F., Ceci L.R., Liuni S., Losito N., Volpicella M., Gallerani R., and De Leo F.  
Plant protease inhibitors   
[database](http://plantpis.ba.itb.cnr.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/189)

**PlantCARE** Rombauts, S.1, Bonnet, E.1, Thijs, G.3, Marchal, K.3, Moreau, Y.3, Van de Peer, Y.1, Rouze, P.2   
Plant cis-acting regulatory elements   
[database](http://bioinformatics.psb.ugent.be/webtools/plantcare/html/)  [summary](http://www.oxfordjournals.org/nar/database/summary/41)

**PlantGDB** Dong, Q.1, Schlueter, S.D.1, Brendel, V.1,2   
Actively-transcribed plant genomic sequences   
[database](http://www.plantgdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/355)

**PlantNATsDB** Ming Chen   
Plant natural antisense transcripts   
[database](http://bis.zju.edu.cn/pnatdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1552)

**PlantProm**   
Plant promoter sequences   
[database](http://linux1.softberry.com/berry.phtml?topic=plantprom&group=data&subgroup=plantprom)  [summary](http://www.oxfordjournals.org/nar/database/summary/563)

**PlantRNA** ValÃ©rie Cognat\*, Gaël Pawlak\*, Anne-Marie Duchêne, Magali Daujat, Anaïs Gigant, Thalia Salinas, Morgane Michaud, Bernard Gutmann, Philippe GiegÃ©, Anthony Gobert and Laurence MarÃ©chal-Drouard   
PlantRNA, a database for tRNAs of photosynthetic eukaryotes   
[database](http://plantrna.ibmp.cnrs.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1578)

**PlantsP/PlantsT** Tchieu, J.2, Fana, F.1, Fink, J.L.1, Harper, J.3, Nair, M.2, Niedner, R.H.1, Smith, D.W.2, Steube, K.1, Tam, T.1, Veretnik, S.1, Wang, D.1, Gribskov, M.1   
Functional genomics databases focusing on proteins involved in plant phosphorylation and membrane transport, respectively   
[database](http://plantsp.sdsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/371)

**PlantTFDB**   
Plant Transcription Factor Database   
[database](http://planttfdb.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1117)

**PlantTribes**   
Families of protein-coding genes from five sequenced plant species   
[database](http://fgp.huck.psu.edu/tribedb/index.pl)  [summary](http://www.oxfordjournals.org/nar/database/summary/1118)

**PlasmID**   
A repository for collection and distribution of plasmid clones   
[database](http://plasmid.hms.harvard.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1028)

**PlasmoDB** Bahl, A.1, Brunk, B.2, Coppel, R. L.3, Crabtree, J.2, Diskin, S. J.2, Fraunholz, M. J.1, Grant, G. R.2, Gupta, D.1, Huestis, R. L.3, Kissinger, J. C.1, Labo, P.1, Li, L.1, McWeeney, S. K.2, Milgram, A. J.1, Roos, D. S.1, Schug, J.2, Stoeckert, C. J. Jr.2   
Plasmodium genome   
[database](http://plasmodb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/91)

**PLEXdb** Julie Dickerson   
Gene Expression Resources for Plants and Plant Pathogens   
[database](http://www.plexdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1553)

**PlnTFDB** Paulino PÃ©rez-RodrÃ­guez, Diego Mauricio RiaÃ±o-PachÃ³n, Luiz Gustavo Guedes CorrÃªa, Stefan A. Rensing, Birgit Kersten, and Bernd Mueller-Roeber   
Plant Transcription Factor Database   
[database](http://plntfdb.bio.uni-potsdam.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1387)

**PLPMDB**   
Pyridoxal-5'-phosphate dependent enzymes mutations   
[database](http://www.studiofmp.com/plpmdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/759)

**PLprot**   
*Arabidopsis thaliana* chloroplast protein database   
[database](http://www.plprot.ethz.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/722)

**PMAP**   
Proteolysis Map   
[database](http://pmap.burnham.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1221)

**PMDB - Protein Model Database** CastrignanÃ² T.1, D'Onorio De Meo P.1, Cozzetto D.2, Talamo I. G.2 and Tramontano, A.2,3   
3D protein models obtained from structure predictions   
[database](http://www.caspur.it/PMDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/855)

**PmiRKB** Yijun Meng 1,2,3, Lingfeng Gou 1, Dijun Chen 1, Chuanzao Mao 2, Yongfeng Jin 3, Ping Wu 2,and Ming Chen 1,2   
Plant microRNA knowledge base   
[database](http://bis.zju.edu.cn/pmirkb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1326)

**PMRD** Zhenhai Zhang, Jingyin Yu, Daofeng Li, Zuyong Zhang, Fengxia Liu, Xin Zhou, Tao Wang, Yi Ling, and Zhen Su   
Plant MicroRNA Database   
[database](http://bioinformatics.cau.edu.cn/PMRD)  [summary](http://www.oxfordjournals.org/nar/database/summary/1389)

**Pocketome** Ruben Abagyan   
Small-molecule and/or peptide binding pockets in the structural proteome   
[database](http://www.pocketome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1498)

**POGs/PlantRBP** Walker N., Stiffler N., Barkan A.   
Orthologous groups of RNA binding proteins in plants   
[database](http://plantrbp.uoregon.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/948)

**POINT** Huang T.W.1,2, Tien A.C.1, Huang W.C.2, Lee Y.C.G.1,3, Peng C.L.2, Tseng H.H.1,2, Kao C.Y.2 and Huang C.Y. F.1,2,4   
Prediction of human protein-protein interactome   
[database](http://point.bioinformatics.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/748)

**Polbase** Brad Langhorst   
Biochemical, genetic, and structural information about DNA polymerases   
[database](http://polbase.neb.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1479)

**PolyA\_DB**   
A database of mammalian mRNA polyadenylation   
[database](http://exon.umdnj.edu/lab_home/)  [summary](http://www.oxfordjournals.org/nar/database/summary/723)

**PolyDoms** Jegga A.G.1,2, Gowrisankar S.1,3, Chen J.1,3 and Aronow B.J.1,2,3   
Human coding SNPs mapped onto protein domains   
[database](http://polydoms.cchmc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/973)

**PolymiRTS** Cui, Yan; Ziebarth, Jesse; Bhattacharya, Anindya; Chen, Anlong   
Polymorphism in microRNA Target Site   
[database](http://compbio.uthsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/958)

**Polymorphix** Bazin E.1, Duret L.2, Penel S.2, and Galtier N.1   
A database of sequence polymorphisms   
[database](http://pbil.univ-lyon1.fr/polymorphix/query.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/724)

**PolyQ** Amy L. Robertson, Mark A. Bate, Steve G. Androulakis, Stephen P. Bottomley, and Ashley M. Buckle   
Polyglutamine Repeats in Proteins   
[database](http://pxgrid.med.monash.edu.au/polyq/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1434)

**PoMaMo - Potato Maps and More** Meyer S.1, Nagel A.1, Basekow, R.1, Gebhardt C.2   
A comprehensive database for potato genome data   
[database](http://www.gabipd.org/projects/Pomamo/)  [summary](http://www.oxfordjournals.org/nar/database/summary/620)

**PomBase** Valerie Wood   
Genome database on S. pombe   
[database](http://www.pombase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1511)

**PoSSuM** Kentaro TOMII   
Ligand-binding POcket Similarity Search Using Multiple-Sketches   
[database](http://possum.cbrc.jp/PoSSuM/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1499)

**Poxvirus.org**   
Poxvirus genomic sequences and gene annotation   
[database](http://www.poxvirus.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/725)

**PPD** Toseland C.P., McSparron H., Doytchinova I.A., M.N.Davies, and Flower D.R.   
Experimentally-determined protein pKa values   
[database](http://www.ddg-pharmfac.net/ppd/PPD/pKahomepage.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/856)

**PPDB: Plant Promoter Database**   
Plant promoter database   
[database](http://ppdb.agr.gifu-u.ac.jp/ppdb/cgi-bin/index.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/1119)

**PPDB: Plant Proteomics Database**   
Plant Proteomics Database   
[database](http://ppdb.tc.cornell.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1205)

**PPNEMA** De Giorgi C.1, Rubino F.1, Voukelatou A.1, De Luca F.2 and Attimonelli M.1   
Plant-Parasitic NEMAtode rRNAs   
[database](http://www.ppnema.uniba.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/726)

**PPT-DB**   
Protein Property Prediction and Testing Database   
[database](http://www.pptdb.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1120)

**PR2** Richard Christen   
Protist Ribosomal reference Database   
[database](http://ssu-rrna.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1622)

**Predictive Networks** John Quackenbush   
Integration, navigation, visualization, and analysis of gene interaction networks   
[database](http://predictivenetworks.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1525)

**PReMod**   
Predicted transcriptional regulatory modules in the human genome   
[database](http://genomequebec.mcgill.ca/PReMod/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1005)

**prePPI** Barry Honig   
Predicted and experimentally determined protein-protein interactions for yeast and human   
[database](http://bhapp.c2b2.columbia.edu/PrePPI)  [summary](http://www.oxfordjournals.org/nar/database/summary/1632)

**PREX** Laura Soito, Chris Williamson, Stacy T. Knutson, Jacquelyn S. Fetrow, Leslie B. Poole, and Kimberly J. Nelson   
PeroxiRedoxin classification indEX   
[database](http://csb.wfu.edu/PREX)  [summary](http://www.oxfordjournals.org/nar/database/summary/1435)

**PRF**   
Protein research foundation database of peptides: sequences, literature and unnatural amino acids   
[database](http://www.prf.or.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/565)

**PRGdb** Walter Sanseverino, Guglielmo Roma, Marco De Simone, Luigi Faino, Sara Melito, Elia Stupka, Luigi Frusciante, and Maria Raffaella Ercolano   
Plant disease resistance genes   
[database](http://www.prgdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1388)

**PRIDB** Benjamin A. Lewis, Rasna R. Walia, Michael Terribilini, Jeff Ferguson, Charles Zheng, Vasant Honavar, and Drena Dobbs   
Protein-RNA Interface Database   
[database](http://bindr.gdcb.iastate.edu/PRIDB)  [summary](http://www.oxfordjournals.org/nar/database/summary/1436)

**PRIDE** Jones P.1, CÃ´tÃ© R.G.1, Martens L.2, Quinn A.F.1, Taylor C.F.1, Derache W.1, Hermjakob H.1 and Apweiler R.1   
Proteomics peptide identification database   
[database](http://www.ebi.ac.uk/pride/)  [summary](http://www.oxfordjournals.org/nar/database/summary/857)

**Primer Studio**   
PCR primers for eukaryotic and prokaryotic genes   
[database](http://bioinfo.ebc.ee/PrimerStudio/)  [summary](http://www.oxfordjournals.org/nar/database/summary/728)

**PrimerBank** Athanasia Spandidos, Xiaowei Wang, Huajun Wang, and Brian Seed   
PCR primers for human and mouse genes   
[database](http://pga.mgh.harvard.edu/primerbank/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1386)

**PRINTS** Attwood, T.K.1, Bradley, P.1,2, Gaulton, A.1, Maudling, N. 1, Mitchell, A.1,2, Moulton, G.1   
Hierarchical gene family fingerprints   
[database](http://www.bioinf.man.ac.uk/dbbrowser/PRINTS/)  [summary](http://www.oxfordjournals.org/nar/database/summary/212)

**Pristionchus.org** Dieterich C., Roeseler W., Sobetzko P. and Sommer R.J.   
Genome data of the nematode *Pristionchus pacificus*   
[database](http://www.pristionchus.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1006)

**PRO** Darren A. Natale 1, Cecilia N. Arighi 2, Winona C. Barker 1, Judith A. Blake 3, Carol J. Bult 3, Michael Caudy4, Harold J. Drabkin 3, Peter D'Eustachio 5, Alexei V. Evsikov 3, Hongzhan Huang 2, Jules Nchoutmboube 2, Natalia V. Roberts 2, Barry Smith 6, Jian Zhang 1 and Cathy H. Wu 1,2   
The Protein Ontology: A Structured Representation of Protein Forms and Complexes   
[database](http://pir.georgetown.edu/pro/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1327)

**probeBase** Loy A., Maixner, F, Wagner M. and Horn M.   
rRNA-targeted oligonucleotide probe sequences, DNA microarray layouts, and associated information   
[database](http://www.microbial-ecology.net/probebase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/390)

**PROCOGNATE**   
Protein cognate ligands for the domains in enzyme structures   
[database](http://www.ebi.ac.uk/thornton-srv/databases/procognate/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1121)

**ProDom** Courcelle E., Beausse Y., CarrÈre S., Bru C., Dalmar S., Kahn D.   
Protein domain families   
[database](http://prodom.prabi.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/214)

**PRODORIC**   
Prokaryotic database of gene regulation and regulatory networks   
[database](http://prodoric.tu-bs.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/566)

**ProGlycProt** Alka Rao   
Experimentally characterized Prokaryotic GlycoProteins   
[database](http://www.proglycprot.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1480)

**ProLysED - Prokaryotic Lysis Enzymes Database** Firdaus Raih, M.1, Ahmad, H.A.2, Sharum, M.Y.2, Mohamed, R.1,2   
A database of bacterial protease systems   
[database](http://www.genomemalaysia.gov.my/prolyses/)  [summary](http://www.oxfordjournals.org/nar/database/summary/609)

**PromEC**   
*E. coli* mRNA promoters with experimentally identified transcriptional start sites   
[database](http://margalit.huji.ac.il/promec/)  [summary](http://www.oxfordjournals.org/nar/database/summary/42)

**PROMISCUOUS** Joachim von Eichborn, Manuela S. Murgueitio, Mathias Dunkel, Soeren Koerner, Philip E. Bourne, and Robert Preissner   
Protein-protein and drug-protein interactions for studies of drug repositioning   
[database](http://bioinformatics.charite.de/promiscuous)  [summary](http://www.oxfordjournals.org/nar/database/summary/1437)

**PROMISE** Degtyarenko, K.N., North, A.C.T., Findlay, J.B.C.   
Prosthetic centers and metal ions in protein active sites   
[database](http://metallo.scripps.edu/PROMISE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/193)

**ProNIT**   
Thermodynamic data on protein-nucleic acid interactions   
[database](http://gibk26.bio.kyutech.ac.jp/jouhou/pronit/pronit.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/729)

**ProOpDB** Enrique Merino   
Prokaryotic Operon DataBase   
[database](http://operons.ibt.unam.mx/OperonPredictor/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1507)

**PROPHECY** Fernandez-Ricaud L.1, Warringer J.1, Ericson E.1, Glaab K.1, Davidsson P.1, Nilsson F1, Kemp G.J.L.3, Nerman O.2 and Blomberg A.1   
Profiling of phenotypic characteristics in yeast   
[database](http://prophecy.lundberg.gu.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/730)

**ProPortal** Sallie W. Chisholm   
Prochlorococcus marinus and its phages   
[database](http://proportal.mit.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1508)

**ProRepeat** Jack Leunissen   
Amino acid tandem Repeats in Proteins   
[database](http://prorepeat.bioinformatics.nl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1481)

**ProRule** Sigrist C.J.A.1, Bairoch A.1,2, Bulliard V.1, De Castro E.1, Langendijk-Genevaux P.S.1 and Hulo N.1   
Functional and structural information on PROSITE profiles   
[database](http://www.expasy.org/tools/scanprosite/)  [summary](http://www.oxfordjournals.org/nar/database/summary/899)

**ProSAS**   
Protein Structure and Alternative Splicing: effects of alternative splicing events on protein structure   
[database](http://services.bio.ifi.lmu.de/ProSAS/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1122)

**PROSITE** Hulo, N., Sigrist, C.J.A., Langendijk-Genevaux, P., Le Saux, V., Bairoch, A.   
Biologically-significant protein patterns and profiles   
[database](http://www.expasy.org/prosite/)  [summary](http://www.oxfordjournals.org/nar/database/summary/215)

**Prostate Expression Database**   
Sequences from prostate tissue and cell type-specific cDNA libraries   
[database](http://www.pedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/154)

**ProtChemSI** Olga Kalinina   
Protein-Chemical Structural Interactions   
[database](http://pcidb.russelllab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1500)

**ProtCID** Qifang Xu and Roland L. Dunbrack, Jr   
Protein Common Interface Database   
[database](http://dunbrack2.fccc.edu/protcid)  [summary](http://www.oxfordjournals.org/nar/database/summary/1438)

**Protegen** Brian Yang 1,2,3, Samantha Sayers 1,2,4, Zuoshuang Xiang 1,2,5 and Yongqun He 1,2,5   
Protective antigen database and analysis system   
[database](http://www.violinet.org/protegen/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1328)

**Protein Clusters**   
Related protein sequences (clusters)of Reference Sequence proteins encoded by complete genomes   
[database](http://www.ncbi.nlm.nih.gov/sites/entrez?db=proteinclusters)  [summary](http://www.oxfordjournals.org/nar/database/summary/1246)

**Protein Geometry Database** Donald S. Berkholz, Peter B. Krenesky, John R. Davidson, and P. Andrew Karplus   
Protein conformation and bond angles and lengths   
[database](http://pgd.science.oregonstate.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1351)

**Protein kinase resource**   
Protein kinase sequences, enzymology, genetics, and molecular and structural properties.   
[database](http://pkr.genomics.purdue.edu/pkr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/188)

**Protein Mutant Database** Nishikawa, K.   
Compilation of protein mutant data   
[database](http://pmd.ddbj.nig.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/146)

**Protein Naming Utility** Johannes Goll, Robert Montgomery, Lauren M. Brinkac, Seth Schobel, Derek M. Harkins, Yinong Sebastian, Susmita Shrivastava, Scott Durkin, and Granger Sutton   
Repository of protein names and naming rules   
[database](http://www.jcvi.org/pn-utility)  [summary](http://www.oxfordjournals.org/nar/database/summary/1355)

**Protein Segment Finder**   
A tool for identification of protein segments obeying a set of primary, secondary, and tertiary structure constraints   
[database](http://ari.stanford.edu/psf/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1272)

**Protein-protein interfaces**   
Interacting residues in protein-protein interfaces in PDB   
[database](http://home.ku.edu.tr/~okeskin/INTERFACE/INTERFACES.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/749)

**ProTeus**   
Signature sequences at the protein N- and C-termini   
[database](http://www.proteus.cs.huji.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/732)

**ProTherm**   
Thermodynamic data for wild-type and mutant proteins   
[database](http://gibk26.bio.kyutech.ac.jp/jouhou/Protherm/ProTherm_Intro.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/280)

**ProTISA**   
Translation Initiation Site Annotation in prokaryotic genomes   
[database](http://mech.ctb.pku.edu.cn/protisa/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1123)

**ProtoNet** Linial, Michal; Rappoport, Nadav; Karsenty, Solange; Stern, Amos; Linial, Nathan   
Hierarchical clustering of SWISS-PROT proteins   
[database](http://www.protonet.cs.huji.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/567)

**ProtozoaDB**   
Genome analysis of Plasmodium, Entamoeba, Trypanosoma and Leishmania   
[database](http://protozoadb.biowebdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1124)

**PRRDB** Lata S. and Raghava G.P.S.   
Pattern recognition receptors and their ligands   
[database](http://www.imtech.res.in/raghava/prrdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1175)

**PRTAD** Sun X.1, Di Wu2, Jernigan R.1,3, Wu Z.1,4   
Protein Residue Torsion Angle Distributions   
[database](http://www.math.iastate.edu/prtad/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1176)

**PSCDB** Takayuki Amemiya   
Protein Structural Change upon ligand binding   
[database](http://idp1.force.cs.is.nagoya-u.ac.jp/pscdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1501)

**PseudoBase** Batenburg, F.H.D. van1, Gultyaev, A.P.1, Pleij, C.W.A.2   
Structural, functional and sequence data related to RNA pseudoknots   
[database](http://pseudobaseplusplus.utep.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/242)

**Pseudofam**   
Eukaryotic pseudogenes assigned to different protein families   
[database](http://pseudofam.gersteinlab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1251)

**PseudoGene** Karro JE, Yan Y, Zheng D, Zhang Z, Carriero N, Cayting P, Harrrison P. and Gerstein M.   
Pseudogenes in eukaryotic and prokaryotic genomes   
[database](http://www.pseudogene.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1007)

**Pseudomonas Genome Database** Brinkman, F. and Geoff Winsor, G.   
*Pseudomonas* genome database and community annotation project   
[database](http://www.pseudomonas.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/733)

**PSI-SGKB**   
Protein Structure Initiative Structural Genomics Knowledgebase   
[database](http://kb.psi-structuralgenomics.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1260)

**PSIbase** Gong, S.1, Yoon, G. 2, Jang, I. 3, Bolser, D. 4, Dafas, P. 5, Schroeder, M. 6, Choi, S. 1, Lee, S. 1, Cho, Y.2, Han, K. 7, Lee, S. 3, Lappe, M. 8, Holm, L. 9, Kim, S. 3, Oh, D. 2, Bhak, J. 1,2,3,10   
Interaction of proteins with known 3D structures   
[database](http://psibase.kobic.re.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/616)

**PSORTdb**   
Protein subcellular localization in bacteria   
[database](http://db.psort.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/734)

**PSSRdb** Pankaj Kumar, Pasumarthy S. Chaitanya, and Hampapathalu A. Nagarajaram   
Polymorphic Simple Sequence Repeats Database   
[database](http://pssrdb.cdfd.org.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1439)

**pSTIING** Ng A., Bursteinas B., Gao Q., Mollison E. and Zvelebil M.   
Protein-protein, protein-lipid and protein-small molecule interactions   
[database](http://pstiing.icr.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/858)

**PTCH1 Mutation Database**   
Mutations and SNPs found in PTCH1   
[database](http://www.cybergene.se/cgi-bin/w3-msql/ptchbase/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/147)

**PTGL** Patrick May, Annika Kreuchwig, Thomas Steinke, and Ina Koch   
Protein Topology Graph library: Secondary structure-based protein topologies   
[database](http://ptgl.uni-frankfurt.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1352)

**PTM-Switchboard**   
Post-translational modifications of yeast transcription factors   
[database](http://cagr.pcbi.upenn.edu/PTMswitchboard/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1243)

**PTMcode** Peer Bork   
Functional associations between posttranslational modifications within proteins   
[database](http://ptmcode.embl.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1633)

**PubChem** Wang, Yanli'; Bolton, Evan; Bryant, Steve; Xiao, Jewen; suzek, tugba; Zhang, Jian!; Wang, Jiyao; Zhou, Zhigang'; Han, Lianyi; Karapetian, Karen; Dracheva, Svetlana; Shoemaker, Benjamin; Gindulyte, Asta   
Structures and biological activities of small organic molecules   
[database](http://pubchem.ncbi.nlm.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/735)

**PubMed**   
Citations and abstracts of biomedical literature   
[database](http://www.ncbi.nlm.nih.gov/pubmed/)  [summary](http://www.oxfordjournals.org/nar/database/summary/298)

**PubMeth**   
Links between DNA methylation levels and cancer   
[database](http://matrix.ugent.be/pubmeth/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1125)

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Quantitative real time PCR primers for human and mouse RefSeq sequences   
[database](http://primerdepot.nci.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1008)

**QTL Matchmaker** Star K.V.1,2, Song Q.2, Zhu A.2 and BÃ¶ttinger E.P.2   
Quantitative trait loci information for human, mouse and rat   
[database](http://pmrc.med.mssm.edu:9090/QTL/jsp/qtlhome.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/859)

**QuadBase**   
G-quadruplex motifs in the promoters of human, chimpanzee, rat, mouse and bacterial genes   
[database](http://quadbase.igib.res.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1126)

**Quorumpeps** Bart De Spiegeleer   
A database of quorum-sensing peptides   
[database](http://quorumpeps.ugent.be/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1636)

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RESP and ESP atomic charges and force field libraries for small molecules and molecular fragments   
[database](http://q4md-forcefieldtools.org/REDDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1127)

**RAP-DB** Ohyanagi H.1,2, Tanaka T.3, Sakai H.3, Shigemoto Y.1,4, Yamaguchi K.5, Habara T.5,6, Fujii Y.5,6, Antonio B.A.3, Nagamura Y.3, Imanishi T.6, Ikeo K.1, Itoh T.3,6, Gojobori T.1,6 and Sasaki T.3   
The Rice Annotation Project database   
[database](http://rapdb.dna.affrc.go.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/860)

**RAPID**   
Resource of Asian Primary Immunodeficiency Diseases   
[database](http://rapid.rcai.riken.jp/RAPID/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1220)

**RARGE - RIKEN Arabidopsis Genome Encyclopedia**   
*Arabidopsis* cDNAs, mutants and microarray data   
[database](http://rarge.psc.riken.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/738)

**Rat Genome Database** Twigger, S.N.1, Shimoyama, M.1, Lu, J.1, Pasko, D.1, Bromberg, S.1, Chen, C.F.1, Chen, J.1, Gopinathrao, G.1, Nigam, R.1, Ramachandran, H.1, Mathis, J.1, Nie, J.1, Maltais, L.2, Eppig, J.T.2, Maglott, D.3, Schuler, G.3, Jacob, H.J4, Tonellato, P.J.1   
Rat genetic and genomic data   
[database](http://rgd.mcw.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/93)

**RatMap** StÅhl F.1,2, Levan G.1, Ilenius N.1, Johnson P.1, Petersen G.1, Andersson L.1, Klinga-Levan K.3 and GÓmez-Fabre P.M.1   
Rat genome tools and data   
[database](http://ratmap.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/625)

**RB1 Gene Mutation Database**   
Mutations in the human retinoblastoma (RB1) gene   
[database](http://www.verandi.de/joomla/)  [summary](http://www.oxfordjournals.org/nar/database/summary/148)

**RBPDB** Kate B. Cook, Hilal Kazan, Khalid Zuberi, Quaid Morris, and Timothy R. Hughes   
RNA-binding proteins and their specificities   
[database](https://hugheslab.ccbr.utoronto.ca/databases/rbpdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1440)

**Reactome** Joshi-Tope G.1, Vastrik I.2, Gopinathrao G.1, Wu G.1, Matthews L.1, Gillespie M.1,5, Arva A.1, D'Eustachio P.1,3, Schmidt E.2, Jassal B.2, de Bono B.2, Lewis S.4, Birney E.2 and Stein L.D1   
A database of metabolic and signaling pathways   
[database](http://www.reactome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/612)

**REBASE** Roberts, R.J., Vincze, T., Posfai, J., and Macelis, D.   
Enzymes and genes for DNA restriction and modification   
[database](http://rebase.neb.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/224)

**RECODE** Hammer A.H.1, Atkins J.F.1, Fayet O.2, Gesteland R.F.1, Giddings M.C.1,6, Gladyshev V.N.3, Gurvich O.L.1, W. Allen Miller W.A.4, Namy O.5, PrÈre M.F.2, Zhang Y.3 and Baranov P.V.1   
Genes using programmed translational recoding in their expression   
[database](http://recode.genetics.utah.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/21)

**RecountDB** Paul Horton   
Recalculated transcript amounts database   
[database](http://recountdb.cbrc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1546)

**REDfly**   
Regulatory modules and transcription factor binding sites in Drosophila   
[database](http://redfly.ccr.buffalo.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1128)

**REDIdb**   
An RNA editing database   
[database](http://biologia.unical.it/py_script/search.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1009)

**RefExA**   
Reference database for human gene expression analysis   
[database](http://www.lsbm.org/site_e/database/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/568)

**REFOLD** Buckle A.M.   
Experimental data on protein refolding and purification   
[database](http://refold.med.monash.edu.au/)  [summary](http://www.oxfordjournals.org/nar/database/summary/783)

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Reference sequence standards for genomes, genes, transcripts, and proteins   
[database](http://www.ncbi.nlm.nih.gov/RefSeq/)  [summary](http://www.oxfordjournals.org/nar/database/summary/391)

**RegPhos** Tzong-Yi Lee 1, Justin Bo-Kai Hsu 2, Wen-Chi Chang 3 and Hsien-Da Huang 2,4,5   
Regulatory Network in Protein Phosphorylation   
[database](http://regphos.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1329)

**RegPrecise** Pavel S. Novichkov, Olga N. Laikova, Elena S. Novichkova, Mikhail S. Gelfand, Adam P. Arkin, Inna Dubchak, and Dmitry A. Rodionov   
Predicted regulons in prokaryotic genomes   
[database](http://regprecise.lbl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1342)

**RegTransBase** Kazakov A.E.1, Cipriano M.J.2, Novichkov P.S.3,4, Minovitsky S.2, Vinogradov D.V.1, Arkin A.2,4,5,6, Mironov A.A.1,7,8, Gelfand M.S.1,7,8,10, Dubchak I.2,9,10   
Manually curated database of regulatory interactions in prokaryotes   
[database](http://regtransbase.lbl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/947)

**RegulonDB** Salgado, H, Gama-Castro, S., MartÍnez-Antonio, A., DÍaz-Peredo, E., SÁnchez-Solano, F., GarcÍa-Alonso, D., Peralta-Gil, M., Santos-Zavaleta, A., JimÉnez-Jacinto, V., Collado-Vides, J.   
*E. coli* transcriptional regulation and operon organization   
[database](http://regulondb.ccg.unam.mx/)  [summary](http://www.oxfordjournals.org/nar/database/summary/116)

**REPAIRtoire** Kaja Milanowska, Joanna Krwawicz, Grzegorz Papaj, Jan Kosi?ski, Katarzyna Poleszak, Justyna Lesiak, Ewelina Osi?ska, Kristian Rother, and Janusz M. Bujnicki   
DNA repair pathways of human, yeast and E.coli   
[database](http://repairtoire.genesilico.pl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1441)

**ReplicationDomain (alias ChromosomeDomain)** Weddington, N., Stuy, A., Hiratani, I., Ryba, T., Yokochi, T., and Gilbert, D.M.   
ReplicationDomain: Replication timing database and genome-wide data visualization tool. ChromosomeDomain: database of any chromosome features tied to a map unit.   
[database](http://www.replicationdomain.org/andhttp://www.chromosomedomain.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1292)

**RepTar** Naama Elefant, Amnon Berger, Harel Shein, Matan Hofree, Hanah Margalit, and Yael Altuvia   
Predicted targets of host and viral miRNAs   
[database](http://reptar.ekmd.huji.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1442)

**RESID**   
Protein structure modifications   
[database](http://www.ebi.ac.uk/RESID/)  [summary](http://www.oxfordjournals.org/nar/database/summary/281)

**RetrOryza** Chaparro C.1, Guyot R.1, Zuccolo A.2, PiÃ©gu B.1 and Panaud O.1   
LTR-retrotransposons in rice   
[database](http://www.retroryza.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1019)

**Rfam** Griffiths-Jones, S.1, Bateman, A.1, Marshall, M.1, Khanna, A.2, Eddy, S.R.2   
Non-coding RNA families   
[database](http://rfam.sanger.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/382)

**Rhea** Christoph Steinbeck   
EBI's biochemical reaction database   
[database](http://www.ebi.ac.uk/rhea/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1512)

**RhesusBase** Shi-Jian Zhang1,#, Chu-Jun Liu1,#, Mingming Shi1,#, Lei Kong2, Jia-Yu Chen1, Wei-Zhen Zhou2, Xiaotong Zhu1, Peng Yu1, Jue Wang1, Xinzhuan Yang1, Ning Hou1, Zhiqiang Ye3, Rongli Zhang1, Ruiping Xiao1, Xiuqin Zhang1,\* and Chuan-Yun Li1,\*   
A Knowledgebase for the Monkey Research Community   
[database](http://www.rhesusbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1577)

**Ribonuclease P Database**   
RNase P sequences, alignments, and structures   
[database](http://www.mbio.ncsu.edu/RNaseP/home.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/195)

**Ribosomal Database Project (RDP-II)** Cole, J.R.1, Chai, B.1, Wang, Q.1, Chandra, S.1, Farris, R.J.1, Kulam, S.A.1, McGarrel, D.M.1, Schmidt, T.M.2, Garrity, G.M.2, Tiedje, J.M.2   
rRNA sequence data, analysis tools, alignments, and phylogenies   
[database](http://rdp.cme.msu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/243)

**Rice Annotation Database**   
Contig data for manual annotation of rice genome   
[database](http://golgi.gs.dna.affrc.go.jp/SY-1102/rad/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/737)

**Rice Gene Thresher**   
Web-based Application for Mining Genes Underlying QTLs in Rice Genome   
[database](http://rice.kps.ku.ac.th/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1198)

**Rice Mutant Database**   
Rice mutant database   
[database](http://rmd.ncpgr.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/861)

**Rice Pipeline**   
Unification tool for rice databases   
[database](http://cdna01.dna.affrc.go.jp/PIPE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/569)

**Rice Proteome Database**   
Rice proteome database   
[database](http://gene64.dna.affrc.go.jp/RPD/main_en.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/572)

**RiceFREND** Baltazar Antonio   
Rice Functionally Related gene Expression Network Database   
[database](http://ricefrend.dna.affrc.go.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1660)

**RiceGAAS** Sakata K., Nagamura Y., Numa H., Antonio B.A., Nagasaki H., Idonuma A., Watanabe W., Shimizu Y., Horiuchi I., Matsumoto T., Sasaki T. and Higo K.   
Rice genome automated annotation system   
[database](http://ricegaas.dna.affrc.go.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/336)

**RiceXPro** Yutaka Sato, Baltazar A. Antonio, Nobukazu Namiki, Hinako Takehisa, Hiroshi Minami, Kaori Kamatsuki, Kazuhiko Sugimoto, Yuji Shimizu, Hirohiko Hirochika, and Yoshiaki Nagamura   
Rice transcriptome under natural conditions   
[database](http://ricexpro.dna.affrc.go.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1443)

**RIDOM - Ribosomal Differentiation of Medical Microorganisms** Harmsen, D.1, RothgÄnger, J.2, Sammeth, M.3, Albert, J.4   
rRNA (16S and ITS) sequence-based identification of medical microorganisms   
[database](http://www.ridom.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/299)

**RIKEN mammals**   
Integrated database of mammalian genomes, phenotypes, strains and cell lines   
[database](http://database.riken.jp/sw/en/The_RIKEN_integrated_database_of_mammals/ria254i/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1444)

**RISSC - Ribosomal Internal Spacer Sequence Collection** Casado, J.C.A., GarcÍa-MartÍnez, J., RodrÍguez-Sala, J.J., RodrÍguez-Valera, F.   
Ribosomal 16S-23S RNA gene spacer regions   
[database](http://egg.umh.es/rissc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/244)

**RNA CoSSMos** Pamela Vanegas   
RNA Characterization of Secondary Structure Motifs   
[database](http://cossmos.slu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1486)

**RNA FRABASE**   
A database of 3D RNA fragments within known RNA structures   
[database](http://rnafrabase.ibch.poznan.pl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1129)

**RNA helicase Database**   
DEAD-box, DEAH-box, and DExH-box proteins   
[database](http://www.dexhd.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/160)

**RNA Modification Database**   
Naturally modified nucleosides in RNA   
[database](http://rna-mdb.cas.albany.edu/RNAmods/)  [summary](http://www.oxfordjournals.org/nar/database/summary/245)

**RNA SSTRAND**   
RNA secondary structure data and structural motifs   
[database](http://www.rnasoft.ca/sstrand/)  [summary](http://www.oxfordjournals.org/nar/database/summary/900)

**RNA Virus Database**   
The RNA Virus Database   
[database](http://virus.zoo.ox.ac.uk/rnavirusdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1241)

**RNAdb** Pang K.C.1,2, Stephen S.1, EngstrÖm P.G.3, Tajul-Arifin K.1, Chen W.2, Wahlestedt C.3, Lenhard B.3, Hayashizaki Y.4, and Mattick J.S.1   
Mammalian noncoding RNA database   
[database](http://research.imb.uq.edu.au/RNAdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/630)

**RNAi codex** Olson A., Sheth N., Lee J.S., Hannon G. and Sachidanandam R.   
Available clones from mouse, human and rat shRNA libraries   
[database](http://codex.cshl.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/862)

**RNAiDB**   
RNAi phenotypic analysis of C. elegans genes   
[database](http://www.rnai.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/570)

**RNAJunction**   
RNA structural elements: helical junctions, internal loops, bulges and loop-loop interactions   
[database](http://rnajunction.abcc.ncifcrf.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1130)

**RNApathwaysDB** Janusz Bujnicki   
A database of RNA processing pathways   
[database](http://rnb.genesilico.pl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1630)

**RNRdb** Lundin D., Torrents E., Furrer E., Larsson Birgander P., Sahlin M., Poole A.M. and SjÃ¶berg B.-M.   
Ribonucleotide reductase database   
[database](http://rnrdb.molbio.su.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/901)

**rOGED** Gieske, M.C., Payne, C.E., Gieske, J.B., and CheMyong Ko   
Rat ovarian gene expression database   
[database](http://app.mc.uky.edu/kolab/rogedendo.aspx)  [summary](http://www.oxfordjournals.org/nar/database/summary/739)

**ROSPath**   
Reactive oxygen species (ROS) signaling pathway proteins   
[database](http://rospath.ewha.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/571)

**Roundup**   
Orthologs and corresponding evolutionary distances   
[database](http://roundup.hms.harvard.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1160)

**RPG - Ribosomal Protein Gene database**   
Ribosomal protein gene database   
[database](http://ribosome.med.miyazaki-u.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/573)

**RRNDB**   
Variation in prokaryotic ribosomal RNA operons   
[database](http://ribosome.mmg.msu.edu/rrndb/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/43)

**RsGDB**   
Rhodobacter sphaeroides genome   
[database](http://mmg.uth.tmc.edu/sphaeroides/)  [summary](http://www.oxfordjournals.org/nar/database/summary/94)

**RsiteDB**   
RNA-binding sites database   
[database](http://bioinfo3d.cs.tau.ac.il/RsiteDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1252)

**rSNP Guide**   
Single nucleotide polymorphisms in regulatory gene regions   
[database](http://wwwmgs.bionet.nsc.ru/mgs/systems/rsnp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/45)

**RTKdb - Receptor Tyrosine Kinase database**   
Receptor tyrosine kinase sequences   
[database](http://pbil.univ-lyon1.fr/RTKdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/575)

**RTPrimerDB** Pattyn, F., Speleman, F., De Paepe, A., Vandesompele, J.   
Real-time PCR primer and probe sequences   
[database](http://medgen.ugent.be/rtprimerdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/356)

**S/MARt DB** Liebich I.1 and Wingender E.1,2   
Nuclear scaffold/matrix attached regions   
[database](http://smartdb.bioinf.med.uni-goettingen.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/309)

**SABIO-RK** Ulrike Wittig   
System for the Analysis of Biochemical Pathways Reaction Kinetics   
[database](http://sabiork.h-its.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1516)

**SAGEmap**   
NCBI's resource for SAGE data from various organisms   
[database](http://www.ncbi.nlm.nih.gov/SAGE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/712)

**SAHG**   
Structural Atlas of Human Genome   
[database](http://bird.cbrc.jp/sahg)  [summary](http://www.oxfordjournals.org/nar/database/summary/1445)

**SALAD**   
The SALAD database is a unique plant comparative genomics database of simil   
[database](http://salad.dna.affrc.go.jp/salad/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1296)

**SARS-CoV RNA SSS** Wei-Bo Liu   
Predicted secondary structures of SARS coronavirus RNA   
[database](http://www.liuweibo.com/sarsdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/908)

**SBASE** Vlahovicek, K1, Kajan, L1, Ãgoston, V2, Pongor, S1   
Protein domain sequences and tools   
[database](http://www.icgeb.org/sbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/217)

**SCAdb**   
Candidate genes for spinocerebellar ataxias   
[database](http://ymbc.ym.edu.tw/sca_ensembl/)  [summary](http://www.oxfordjournals.org/nar/database/summary/769)

**ScerTF** Aaron Spivak   
Binding sites for Saccharomyces cerevisiae Transcription Factors   
[database](http://stormo.wustl.edu/ScerTF)  [summary](http://www.oxfordjournals.org/nar/database/summary/1461)

**SchistoDB** Zerlotini, A.1,2, Heiges, M.2, Wang, H.2, Moraes, R.L.V.1, Dominitini, A.J.1, Ruiz, J.C.1, Kissinger, J.C.2,3 Oliveira, G.1   
Schistosoma mansoni genome resource   
[database](http://schistodb.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1219)

**SCLD** Edward E. Hemphill 1, Asav P. Dharia 1, Chih Lee 2, Caroline M. Jakuba 1,Jason D. Gibson 1, Frederick W. Kolling IV 1 and Craig E. Nelson 1   
Stem cell lineage database   
[database](http://scld.mcb.uconn.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1330)

**SCMD - Saccharomyces cerevisiae Morphological Database** Saito T.L.1,3, Nakatani Y.1,3, Sese J.1, Sano F.2,3, Yukawa M.2,3, Ohya Y.2,3 and Morishita S.1,3   
Micrographs of budding yeast mutants   
[database](http://yeast.gi.k.u-tokyo.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/576)

**SCOP - Structural Classification Of Proteins** Murzin, A.G., Lo Conte, L., Andreeva, A., Howorth, D., Ailey, B.G., Brenner, S.E., Hubbard, T.J.P., and Chothia, C.   
Structural classification of proteins   
[database](http://scop.mrc-lmb.cam.ac.uk/scop)  [summary](http://www.oxfordjournals.org/nar/database/summary/282)

**SCOPPI** Winter, C., Henschel, A., Kim W.K., Schroeder, M.   
Structural classification of protein-protein interfaces   
[database](http://www.scoppi.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/863)

**SCOR - Structural Classification Of RNA** Tamura, M.1, Hendrix, D.K.2, Klosterman, P.S.1, Schimmelman, N.R.B.2, Brenner, S.E.1,2, Holbrook, S.R.1   
RNA structural relationships   
[database](http://scor.lbl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/283)

**Scorpion**   
Database of scorpion toxins   
[database](http://sdmc.i2r.a-star.edu.sg/scorpion/)  [summary](http://www.oxfordjournals.org/nar/database/summary/741)

**SCPD - Saccharomyces cerevisiae promoter database**   
A database of yeast promoters   
[database](http://rulai.cshl.edu/SCPD/)  [summary](http://www.oxfordjournals.org/nar/database/summary/577)

**SCRIPDB** Abraham Heifets   
Search for Chemicals and Reactions In Patents   
[database](http://dcv.uhnres.utoronto.ca/SCRIPDB/search)  [summary](http://www.oxfordjournals.org/nar/database/summary/1484)

**SDAP** Ivanciuc, O., Schein, C.H., Braun, W.   
Sequences, structures, and IgE epitopes of allergenic proteins   
[database](http://fermi.utmb.edu/SDAP/)  [summary](http://www.oxfordjournals.org/nar/database/summary/372)

**SDR**   
Predicted specificity-determining residues in protein families   
[database](http://paradox.harvard.edu/sdr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1235)

**Sebida**   
Sex bias in insect gene expression database   
[database](http://www.sebida.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1161)

**SecReT4** Dexi Bi 1, Linmeng Liu 1, Cui Tai 1, Zixin Deng 1, Kumar Rajakumar 2, Hong-Yu Ou1   
SecReT4: a web-based bacterial type IV secretion system resource   
[database](http://db-mml.sjtu.edu.cn/SecReT4)  [summary](http://www.oxfordjournals.org/nar/database/summary/1576)

**Secreted Protein Database**   
Secreted proteins from human, mouse and rat   
[database](http://spd.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/745)

**SeedGenes**   
Genes essential for Arabidopsis development   
[database](http://www.seedgenes.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/578)

**Selectome**   
Gene trees that show positive selection   
[database](http://bioinfo.unil.ch/selectome/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1254)

**SelenoDB**   
A database of selenoprotein genes, proteins and SECIS elements   
[database](http://www.selenodb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1131)

**SELEXdb**   
Selected DNA/RNA functional site sequences   
[database](http://wwwmgs.bionet.nsc.ru/mgs/systems/selex/)  [summary](http://www.oxfordjournals.org/nar/database/summary/246)

**SelTarbase** Stefan M. Woerner, Yan P. Yuan, Axel Benner, Sebastian Korff, Magnus von Knebel Doeberitz, and Peer Bork   
Mutations of human MSI-H tumor and colorectal cell lines   
[database](http://www.seltarbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1376)

**SENTRA** Michael Galperin   
A census of SENsory signal TRAnsduction proteins   
[database](http://www.ncbi.nlm.nih.gov/Complete_Genomes/SignalCensus.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/196)

**SEQanswers** Dan Bolser   
Wiki on all aspects of next-generation genomics   
[database](http://seqanswers.com/wiki/SEQanswers)  [summary](http://www.oxfordjournals.org/nar/database/summary/1567)

**SEVA** VÃ­ctor de Lorenzo   
The Standard European Vector Architecture: a platform for analysis of complex prokaryotic phenotypes   
[database](http://www.sevaplasmids.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1621)

**SEVENS** Suwa, M.1, Sato, T.2, Okouchi, I.2, Arita, M.1, Matsumoto, S.3, Tsutsumi, S.3, Aburatani, H.3, Asai, K.1, Akiya, Y.1   
7-transmembrane helix receptors   
[database](http://sevens.cbrc.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/373)

**SGD - *Saccharomyces* Genome Database** Cherry, J. Michael; Hong, Eurie; Amundsen, Craig; Balakrishnan, Rama; Binkley, Gail; Chan, Esther; Christie, Karen; Costanzo, Maria; Dwight, Selina; Engel, Stacia; Fisk, Dianna; Hirschman, Jodi; Hitz, Benjamin; Karra, Kalpana; Krieger, Cynthia; Miyasato, Stuart; Nash, Rob; Park, Julie; Skrzypek, Marek; Simison, Matt; Weng, Shuai; Wong, Edith   
*Saccharomyces cerevisiae* genes, gene products and their annotations.   
[database](http://www.yeastgenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/357)

**SGMD**   
Soybean genomics and microarray database   
[database](http://bioinformatics.towson.edu/SGMD3/)  [summary](http://www.oxfordjournals.org/nar/database/summary/766)

**Shanghai Rapeseed Database**   
Seed development and fatty acid metabolism of oilseed crops   
[database](http://rapeseed.plantsignal.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1132)

***Shi*Base** Yang J.1, Chen L.H.1, Yu J.2, Sun L.L.1, Jin Q.1   
Comparative genomics of *Shigella*   
[database](http://www.mgc.ac.cn/ShiBASE/)  [summary](http://www.oxfordjournals.org/nar/database/summary/865)

**SIDDBase** Wang H., Kaloper M. and Benham C.J.   
Stress-induced DNA duplex destabilization profiles of complete microbial genomes   
[database](http://benham.genomecenter.ucdavis.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/866)

**SIFTS**   
Structure Integration with Function, Taxonomy and Sequences   
[database](http://www.ebi.ac.uk/pdbe/docs/sifts/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1615)

**SilkDB** Wang J.1, Xia Q.2, He X.3,4, Dai M.3, Ruan J.3,4, Chen J.3, Yu G.3, Yuan H.3, Hu Y.3, Li R.3, Feng T.3, Ye C.3, Lu C.2, Wang J.1,3,5, Li S.1, Wong G.K.-S.3,6, Yang H.3,5, Wang J.3,5, Xiang Z.2, Zhou Z.2 and Yu J.3,5   
Silkworm *Bombyx mori* genetic and genomic data   
[database](http://www.ab.a.u-tokyo.ac.jp/genome/)  [summary](http://www.oxfordjournals.org/nar/database/summary/743)

**SilkSatDb** Prasad, M.D.1, Muthulakshmi, M.1, Arunkumar, K.P.1, Madhu, M.1, Sreenu, V.B.2, Pavithra, V.2, Bose, B.2, Nagarajaram, H.A.2, Mita, K.3, Shimada, T.4 and Nagaraju, J.1   
A microsatellite database of the silkworm *Bombyx mori*   
[database](http://www.cdfd.org.in/SILKSAT/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/744)

**SILVA: a comprehensive online resource for quality checked and aligned ribosomal RNA sequence data**Pruesse E.1,2, Quast C.1,3, Knittel K.4, Fuchs B.M.4, Ludwig W.5, Peplies J.6 and GlÃ¶ckner F.O.1,3   
The SILVA (from Latin silva, forest) databases provides comprehensive, quality checked and regularly updated databases of aligned small- (16S/18S, SSU) and large subunit (23S/28S, LSU) ribosomal RNA (rRNA) sequences for all three domains of life (Bacteria, Archaea and Eukarya). All sequences are checked for anomalies, carry a rich set of sequence associated contextual information, have multiple taxonomic classifications, and the latest validly described nomenclature.   
[database](http://www.arb-silva.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1183)

**SIMAP** Rattei, T.1, Tischler, P.1, GÃƒÂ¶tz, S.2, Jehl, M.-A.1, Hoser, J.1, Arnold, R.1, Conesa, A.2, and Mewes, H.-W.1,3   
Pre-calculated protein sequence similarities, domains, annotations and clusters   
[database](http://mips.gsf.de/simap/)  [summary](http://www.oxfordjournals.org/nar/database/summary/867)

**SINEBase** Dmitri Kramerov   
A database of short interspersed elements (SINEs)   
[database](http://sines.eimb.ru/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1586)

**siRecords**   
Experimentally tested mammalian siRNAs   
[database](http://sirecords.biolead.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1162)

**siRNAdb** Warfinge R.E., Chalk A.M. and Sonnhammer E.L.L.   
Functional human siRNA sequences   
[database](http://sirna.sbc.su.se/)  [summary](http://www.oxfordjournals.org/nar/database/summary/629)

**SISYPHUS** Andreeva A.1, Prlic A.2, Hubbard T.J.P.2 and Murzin A.G.1   
Structural alignments for proteins with non-trivial relationships   
[database](http://sisyphus.mrc-cpe.cam.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1010)

**SitesBase**   
Known ligand binding sites in the PDB   
[database](http://www.modelling.leeds.ac.uk/sb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/868)

**SitEx** Irina Medvedeva   
Projections of protein functional Sites on Exons   
[database](http://www-bionet.sscc.ru/sitex/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1471)

**SKY/M-FISH and CGH**   
Fluorescent images of chromosomes and cytogenetic data   
[database](http://www.ncbi.nlm.nih.gov/sky/)  [summary](http://www.oxfordjournals.org/nar/database/summary/592)

**SMART** Letunic, Ivica; Doerks, Tobias; Bork, Peer   
Simple Modular Architecture Research Tool   
[database](http://smart.embl-heidelberg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/218)

**SmedGD**   
The Schmidtea mediterranea genome database   
[database](http://smedgd.neuro.utah.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1133)

**SMPDB** Alex Frolkis, Craig Knox, Emilia Lim, Timothy Jewison, Vivian Law, David D. Hau, Phillip Liu, Bijaya Gautam, Son Ly, An Chi Guo, Jianguo Xia, Yongjie Liang, Savita Shrivastava, and David S. Wishart   
Small Molecule Pathway Database   
[database](http://www.smpdb.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1362)

**SNAP** S. Li1,2, L. Ma2,3, H. Li1,2, S. Vang4, Y. Hu2, L. Bolund1,2 and J. Wang1,2,5   
An integrated SNP Annotation Platform   
[database](http://snap.genomics.org.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1011)

**SNAPPI** Jefferson E.R., Walsh T., Roberts T. and Barton, G.J.   
Structures, iNterfaces and Alignments for Protein-Protein Interactions   
[database](http://www.compbio.dundee.ac.uk/SNAPPI/downloads.jsp)  [summary](http://www.oxfordjournals.org/nar/database/summary/1012)

**Sno/scaRNAbase** Xie J.1, Zhang M.2, Zhou T.1, Hua X.1, Tang L.S.1 and Wu W.L.3   
Small nucleolar RNAs and cajal body-specific RNAs   
[database](http://bioinfo.fudan.edu.cn/snoRNAbase.nsf)  [summary](http://www.oxfordjournals.org/nar/database/summary/962)

**snoRNA-LBME-db** Lestrade L.1 and Weber M.J.2   
Human snoRNAs and Cajal body-specific RNAs (scaRNAs)   
[database](http://www-snorna.biotoul.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/869)

**SNP2NMD**   
Human SNPs causing nonsense-mediated mRNA decay   
[database](http://variome.kobic.re.kr/SNP2NMD/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1163)

**SNP500Cancer**   
Re-sequenced SNPs from 102 reference samples   
[database](http://snp500cancer.nci.nih.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/579)

**SNP@Ethnos**   
Human SNPs and genes that contain human ethnic variation   
[database](http://bioportal.kobic.re.kr/SNPatETHNIC/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1030)

**SNPedia** Greg Lennon   
Wiki on SNPs and genome annotation   
[database](http://www.snpedia.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1566)

**SNPeffect** De Baets, Greet1,2,3; Van Durme, Joost1,2,3; Reumers, Joke4,5; Maurer-Stroh, Sebastian6; Vanhee, Peter1,3; Dopazo, Joaquin7,8; Schymkowitz, Joost1,2 and Rousseau, Frederic1,2   
Phenotypic effects of human coding SNPs   
[database](http://snpeffect.switchlab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/626)

**SNPlogic**   
Interactive SNP annotation, selection and prioritization system for genotyping projects and/or analysis and interpretation of SNP data.   
[database](http://snplogic.org//)  [summary](http://www.oxfordjournals.org/nar/database/summary/1249)

**SNPSTR**   
Microsatellite compound markers in 5 vertebrate genomes   
[database](http://www3.imperial.ac.uk/theoreticalgenomics/data-software/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1013)

**SolGenomics** Aureliano Bombarely 1, Naama Menda 1, Isaak Y. Tecle 1, Robert M. Buels 1, Susan Strickler1Thomas Fischer-York 1, Anuradha Pujar 1, Jonathan Leto 1, Joseph Gosselin 1 and Lukas A. Mueller 1   
Solanaceae Genomics Network   
[database](http://solgenomics.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1331)

**SomamiR** Yan Cui   
Somatic mutations that impact microRNA targeting in cancer   
[database](http://compbio.uthsc.edu/SomamiR/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1600)

**SOURCE** Diehn, M.1, Sherlock, G.2, Binkley, G.2, Jin, H.2, Hernandez-Boussard, T.2, Cherry, J.M.2, Brown, P.O.3, Alizadeh, A.A.4   
Functional genomic resource for annotations, ontologies, and expression data   
[database](http://smd.stanford.edu/cgi-bin/source/sourceSearch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/358)

**SoyBase** Grant D., Nelson R.T., Schooler N. and Shoemaker R.C.   
Soybean genetics and genomics   
[database](http://soybase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/919)

**SoyGD** Shultz J.L.1,10, Jayaraman D.1, Shopinski K.1,7, Iqbal M.J.1, Kazi S.1, Zobrist K.1,5, Bashir R.1, Yaegashi S.1,6, Lavu N.1, Afzal A.J.1, Yesudas C.R.1, Kassem M.A.1,8, Wu C.2,4, Zhang H.B.2, Town C.D.3, Meksem K.9and Lightfoot D.A.1   
Soybean genome database   
[database](http://soybeangenome.siu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/870)

**SpBase**   
Sea urchin Strongylocentrotus purpuratus genome database   
[database](http://spbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1291)

**SPEED**   
Searchable prototype experimental evolutionary database   
[database](http://bioinfobase.umkc.edu/speed/speed_main.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/1164)

**SpermatogenesisOnline** Qinghua Shi   
Spermatogenesis-related genes   
[database](http://mcg.ustc.edu.cn/sdap1/spermgenes/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1648)

**SPIKE** Arnon Paz, Zippora Brownstein, Yaara Ber, Shani Bialik, Eyal David, Dorit Sagir, Igor Ulitsky, Ran Elkon, Adi Kimchi, Karen B. Avraham, Yosef Shiloh, and Ron Shamir   
Signaling Pathways Integrated Knowledge Engine   
[database](http://www.cs.tau.ac.il/~spike/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1446)

**SpliceAid-F** Graziano Pesole   
Human splicing factors and their RNA binding sites   
[database](http://mi.caspur.it/SpliceAidF/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1592)

**SpliceDB**   
Canonical and non-canonical mammalian splice sites   
[database](http://linux1.softberry.com/berry.phtml?topic=splicedb)  [summary](http://www.oxfordjournals.org/nar/database/summary/46)

**SpliceDisease** Juan Wang   
Links between RNA splicing and disease   
[database](http://cmbi.bjmu.edu.cn/Sdisease)  [summary](http://www.oxfordjournals.org/nar/database/summary/1543)

**SpliceInfo**   
Modes of alternative splicing in human genome   
[database](http://spliceinfo.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/746)

**SpliceNest**   
A tool for visualizing splicing of genes from EST data   
[database](http://splicenest.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/580)

**Spliceosome Database** Melissa Jurica   
No description supplied   
[database](http://spliceosomedb.ucsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1593)

**SpodoBase**   
Genomics of the butterfly *Spodoptera frugiperda*   
[database](http://bioweb.ensam.inra.fr/spodobase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/747)

**SPROUTS**   
Structural Prediction for pRotein fOlding UTility System   
[database](http://bioinformatics.engineering.asu.edu/springs/Sprouts/index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/1231)

**sRNAMap**   
small regulatory RNA in microbial genomes   
[database](http://srnamap.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1279)

**SRPDB** Alm Rosenblad, M.1, Zwieb, C.2, Samuelsson, T.1   
Signal recognition particle RNA, SRP protein, and SRP receptor sequences and alignments   
[database](http://rnp.uthscsa.edu/rnp/SRPDB/SRPDB.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/248)

**SSToSS - Sequence-Structural Templates of Single-member Superfamilies** Chakrabarti, S.1, Manohari, G.2and R. Sowdhamini1   
Signal recognition particle RNA, SRP protein, and SRP receptor sequences and alignments   
[database](http://caps.ncbs.res.in/SSTOSS/index.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/530)

**Stanford Microarray Database** Ball, C.A.1, Demeter, J.1, Gollub, G.1, Hebert, J.M.2, Hernandez-Boussard, T.1, Jin, H.1, Nitzberg, M.1, Wymore, F.1, Brown, P.O.1,3, Sherlock, G.4   
Raw and normalized data from microarray experiments   
[database](http://smd.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/22)

**STAP refinement of NMRdb** Jinhyuk Lee   
Refined solution NMR structures   
[database](http://psb.kobic.re.kr/STAP/refinement)  [summary](http://www.oxfordjournals.org/nar/database/summary/1497)

**Starbase** Jian-Hua Yang, Jun-Hao Li, Peng Shao, Hui Zhou, Yue-Qin Chen, and Liang-Hu Qu   
microRNA-mRNA interaction maps   
[database](http://starbase.sysu.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1447)

**STCDB - Signal Transduction Classification Database** Ming Chen, Susana Lin, Ralf Hofestaedt   
Signal transductions classification   
[database](http://bibiserv.techfak.uni-bielefeld.de/stcdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/395)

**StellaBase**   
*Nematostella vectensis* genomics database   
[database](http://stellabase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/871)

**Stem Cell Discovery Engine** Winston Hide   
Comparison system for cancer stem cell analysis   
[database](http://discovery.hsci.harvard.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1534)

**STIFDB2** Mahantesha Naika1,2, Khader Shameer2,3, Oommen K. Mathew2, Ramanjini Gowda1 and R. Sowdhamini 2\*   
STIFDB2: Stress responsive TrancrIption Factor DataBase version 2   
[database](http://caps.ncbs.res.in/stifdb2)  [summary](http://www.oxfordjournals.org/nar/database/summary/1582)

**STINGreport**   
Amino acid properties in proteinns of known structure   
[database](http://sms.cbi.cnptia.embrapa.br/SMS/STINGm/SMSReport/)  [summary](http://www.oxfordjournals.org/nar/database/summary/785)

**STITCH** Kuhn, Michael1; Szklarczyk, Damian2; Franceschini, Andrea3; von Mering, Christian3; Jensen, Lars2; Bork, Peer4,5   
Search Tool for Interactions of Chemicals   
[database](http://stitch-db.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1134)

**StrainInfo.net Bioportal**   
Virtual catalogue providing integrated downstream information on microorganisms deposited within a global network of biological resource centers.   
[database](http://www.straininfo.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1182)

**STRBase**   
Short tandem DNA repeats   
[database](http://www.cstl.nist.gov/div831/strbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/47)

**StreptomeDB** Stefan GÃ¼nther   
No description supplied   
[database](http://streptomedb.pharmaceutical-bioinformatics.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1655)

**Strepto\_DB**   
Database for comparative genome analysis of 15 strains of the genus Streptococcus   
[database](http://oger.tu-bs.de/strepto_db/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1214)

**STRING**   
Predicted functional associations between proteins   
[database](http://string.embl.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/582)

**Structure Superposition Database**   
Pairwise superposition of TIM-barrel structures   
[database](http://ssd.rbvi.ucsf.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/583)

**SUBA** Heazlewood, J.L., Verboom, R.E., Tonti-Filippini, J., Small, I. and Millar, A.H.   
Subcellular localisation of *Arabidopsis* proteins   
[database](http://suba.plantenergy.uwa.edu.au/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1014)

**SubtiList** Moszer, I.1, Jones, L.M.2, Moreira, S.1, Fabry, C.1, Danchin, A.3   
Bacillus subtilis 168 genome   
[database](http://genolist.pasteur.fr/SubtiList/)  [summary](http://www.oxfordjournals.org/nar/database/summary/96)

**SubtiWiki** JÃ¶rg StÃ¼lke   
Collaborative resource for the Bacillus community   
[database](http://subtiwiki.uni-goettingen.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1563)

**Subviral RNA Database**   
Database of viroids and viroid-like RNAs   
[database](http://subviral.med.uottawa.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/383)

**Sulfolobus** Kim BrÃ¼gger   
Comparative genomics of Sulfolobus species   
[database](http://www.sulfolobus.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/964)

**SuperCAT**   
A database for multilocus sequence typing analysis of the Bacillus cereus group of bacteria   
[database](http://mlstoslo.uio.no/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1135)

**SuperCYP** Saskia Preissner, Katharina Kroll, Mathias Dunkel, Christian Senger, Gady Goldsobel, Daniel Kuzman, Stefan Guenther, Rainer Winnenburg, Michael Schroeder, and Robert Preissner   
Cytochrome P450 alleles and drug interactions   
[database](http://bioinformatics.charite.de/supercyp)  [summary](http://www.oxfordjournals.org/nar/database/summary/1348)

**SuperDrug** Goede, A.1, Dunkel, M.1, Mester, N.1, Preissner, R.1   
A conformational drug database   
[database](http://bioinf.charite.de/superdrug/)  [summary](http://www.oxfordjournals.org/nar/database/summary/902)

**SUPERFAMILY** Gough, J., Chothia, C.   
Assignments of proteins to structural superfamilies   
[database](http://supfam.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/285)

**SuperHapten** Guenther S., Hempel D., Dunkel M., Rother K. and Preissner R.   
A comprehensive database for small immunogenic compounds   
[database](http://bioinformatics.charite.de/superhapten/)  [summary](http://www.oxfordjournals.org/nar/database/summary/967)

**SuperNatural** Dunkel, M.1, Fullbeck, M.1, Neumann, S.1, Preissner, R.1   
A database of available natural compounds   
[database](http://bioinformatics.charite.de/supernatural/)  [summary](http://www.oxfordjournals.org/nar/database/summary/903)

**SuperScent**   
Database of flavors and scents   
[database](http://bioinformatics.charite.de/superscent/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1225)

**SuperSite**   
Dictionary of binding sites in proteins   
[database](http://bioinformatics.charite.de/supersite/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1196)

**SuperSweet** Jessica Ahmed 1, Saskia Preissner 1, Mathias Dunkel 1, Catherine L. Worth 1,Andreas Eckert 1 and Robert Preissner 1   
Natural and artificial sweetening agents   
[database](http://bioinformatics.charite.de/sweet/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1332)

**SuperTarget** Hecker, Nikolai; Ahmed, Jessica; von Eichborn, Joachim; Dunkel, Mathias; Macha, Karel; Eckert, Andreas; Bourne, Phil; Gilson, Michael; Preissner, Robert   
Drug-related information: medical indications, adverse drug effects, drug metabolism and Gene Ontology terms of the target proteins   
[database](http://insilico.charite.de/supertarget/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1136)

**SuperToxic**   
A comprehensive database of toxic compounds   
[database](http://bioinformatics.charite.de/supertoxic/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1277)

**SUPFAM** Mudgal, R., Krishnadev, O., and Srinivasan, N.   
This database elucidates the remote relationships found between Pfam families and structural families (SCOP) and uses the evolutionary information inherent of SCOP classification to identify related Pfam familiesRemote relationships between Pfam families.   
[database](http://supfam.mbu.iisc.ernet.in/)  [summary](http://www.oxfordjournals.org/nar/database/summary/219)

**SURFACE**   
A database of protein surface patches   
[database](http://cbm.bio.uniroma2.it/surface/)  [summary](http://www.oxfordjournals.org/nar/database/summary/584)

**SWEET-DB** LoÃŸ, Alex1, Bunsmann. P.1, Bohne, A.4, LoÃŸ, Annika1, Schwarzer, E.1, Lang, E.3, von der Lieth, C.-W.4   
Annotated carbohydrate structure and substance information   
[database](http://www.glycosciences.de/database/)  [summary](http://www.oxfordjournals.org/nar/database/summary/300)

**SWISS-2DPAGE** Hoogland C.   
Annotated two-dimensional polyacrylamide gel electrophoresis database   
[database](http://www.expasy.org/ch2d/)  [summary](http://www.oxfordjournals.org/nar/database/summary/225)

**SWISS-MODEL Repository**   
Database of annotated 3D protein structure models   
[database](http://swissmodel.expasy.org/repository/)  [summary](http://www.oxfordjournals.org/nar/database/summary/585)

**SwissBioisostere** Vincent Zoete   
A database of molecular replacements for ligand design   
[database](http://www.swissbioisostere.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1656)

**SwissRegulon** Pachkov M., Erb I., Molina N. and van Nimwegen E.   
Genome-wide annotations of regulatory sites in the intergenic regions   
[database](http://www.swissregulon.unibas.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1015)

**SwissSidechain** Vincent Zoete   
No description supplied   
[database](http://www.swisssidechain.ch/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1603)

**SynDB** W. Zhang1, Y. Zhang1, H. Zheng2, C. Zhang3, W. Xiong 2,J.G. Olyarchuk 1, M. Walker 4, W. Xu 5, M. Zhao 1, S. Zhao 1 , Z. Zhou 2 and L. Wei1   
Proteins involved in synaptic activity   
[database](http://syndb.cbi.pku.edu.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/787)

**SynSysNet** Robert Preissner   
A database on the structural synaptome   
[database](http://bioinformatics.charite.de/synsysnet)  [summary](http://www.oxfordjournals.org/nar/database/summary/1634)

**Synthetic Gene Database** Wu G., Zheng Y., Qureshi I., Zin H., Beck T., Bulka B. and Freeland S.J.   
Synthetic genes described in peer-reviewed literature   
[database](http://www.umbc.edu/codon/sgdb/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/929)

**Sys-BodyFluid** Su-Jun Li, Mao Peng, Hong Li, Bo-Shu Liu, Chuan Wang, Jia-Rui Wu, Yi-Xue Li and Rong Zeng   
Sys-BodyFluid is a body fluid proteome database for 11 fluids.   
[database](http://lifecenter.sgst.cn/bodyfluid/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1276)

**SysPIMP**   
Platform for Identifying Mutated Proteins   
[database](http://pimp.starflr.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1275)

**SYSTERS** Krause, A.1, Haas, S.A.1, Coward, E.2, Vingron, M.1   
Integrated database of protein families, EST clusters and their genomic positions   
[database](http://systers.molgen.mpg.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/220)

**SYSTOMONAS** Choi C.1, MÜnch R.1, Leupold S.1, Klein J.1, Siegel I.1, Thielen B.2, Benkert B.1, Kucklick M.1, Schobert M.1, Barthelmes J.2, Ebeling C.2, Haddad I.1, Scheer M.1,4, Grote A.3, Hiller K.1, Boyke B.1, Schreiber K.1, Retter I.1, Schomburg D.1 and Jahn D.1   
SYSTems biology of pseudOMONAS   
[database](http://www.systomonas.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/953)

**SysZNF** Ding, G.1, Lorenz, P.2, Kreutzer, M.2, Li, Y.1,3, Thiesen, H.-J.2   
Systematical information resource on Zinc Finger genes   
[database](http://epgd.biosino.org/SysZNF/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1257)

**T1DBase - Type 1 Diabetes Database** L.J. Smink1, E.M. Helton2, B.C. Healy1, C.C. Cavnor2, A.C. Lam1, D. Flamez3, O.S. Burren1, Y. Wang2, G.E. Dolman1, D.B. Burdick2, V.H. Everett1, G. Glusman2, D. Laneri1, L. Rowen2, H. Schuilenburg1, N.M. Walker1, J. Mychaleckyj4, L.S. Wicker1, D.L. Eizirik3, J.A. Todd1 and N. Goodman2   
A community resource for type 1 diabetes research   
[database](http://t1dbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/632)

**T3DB** Emilia Lim, Allison Pon, Yannick Djoumbou, Craig Knox, Savita Shrivastava, An Chi Guo, Vanessa Neveu, and David S. Wishart   
Toxin and Toxin-Target Database   
[database](http://www.t3db.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1383)

**T4-like genome database** Nolan J.M.   
Sequences of T4-like bacteriophages from various sources   
[database](http://phage.ggc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/750)

**TADB** Yucheng Shao 1, Ewan M. Harrison 2, Dexi Bi1, Cui Tai 1, Xinyi He 1, Hong-Yu Ou 1, Kumar Rajakumar 2,3and Zixin Deng 1   
Type II Toxin-Antitoxin loci in bacteria and archaea   
[database](http://bioinfo-mml.sjtu.edu.cn/TADB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1333)

**TAED - The Adaptive Evolution Database**   
A phylogeny-based tool for comparative genomics   
[database](http://www.wyomingbioinformatics.org/TAED/)  [summary](http://www.oxfordjournals.org/nar/database/summary/751)

**TarBase** Hatzigeorgiou, Artemis (contact); Vergoulis, Thanasis; Vlachos, Ioannis; Alexiou, Panagiotis; Georgakilas, Georgios; Maragkakis, Manolis; Reczko, Martin; Gerangelos, Stefanos; Koziris, Nectarios; Dalamagas, Theodore   
Database of experimental supported microRNA targets   
[database](http://microrna.gr/tarbase)  [summary](http://www.oxfordjournals.org/nar/database/summary/1264)

**TargetDB**   
Target data from worldwide structural genomics projects   
[database](http://targetdb.pdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/764)

**TassDB** Hiller M.1, Nikolajewa S.2, Huse K.3, Szafranski K.3, Rosenstiel P.4, Schuster S.2, Backofen R.1 and Platzer M.3   
TAndem Splice Site DataBase   
[database](http://www.tassdb.info/)  [summary](http://www.oxfordjournals.org/nar/database/summary/927)

**TBDB**   
Stanford Tuberculosis Database   
[database](http://tbdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1203)

**TBestDB** O'Brien, E.A.1, Koski, L.1, Zhang, Y.1, Yang, L.1, Wang, E., Gray, M.W.2, Burger, G.1 and Lang, B.F.1   
EST sequences and genes from unicellular eukaryotes   
[database](http://tbestdb.bcm.umontreal.ca/searches/welcome.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/912)

**TCDB** Milton H. Saier, Jr.   
Transporter Classification Database   
[database](http://www.tcdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/790)

**TCMID** Tieliu Shi   
Traditional Chinese Medicine Integrated Database   
[database](http://www.megabionet.org/tcmid/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1650)

**TcoF-DB** Ulf Schaefer 1, Sebastian Schmeier 1 and Vladimir B. Bajic 1   
Database for Human Transcription Co-Factors   
[database](http://cbrc.kaust.edu.sa/tcof/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1334)

**TcruziDB**   
*Trypanosoma cruzi* genome database   
[database](http://tcruzidb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/586)

**TcSNP**   
Genetic variation in Trypanosoma cruzi   
[database](http://snps.tcruzi.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1288)

**TDRtargets**   
Identification and ranking of targets against neglected tropical diseases   
[database](http://tdrtargets.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1178)

**TECRdb**   
Thermodynamics of enzyme-catalyzed reactions   
[database](http://xpdb.nist.gov/enzyme_thermodynamics/)  [summary](http://www.oxfordjournals.org/nar/database/summary/772)

**TED - Tomato Expression Database**   
Tomato gene expression database   
[database](http://ted.bti.cornell.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/872)

**Telomerase database**   
Sequences and structures of the RNA and protein subunits of telomerase, mutations of telomerase components  
[database](http://telomerase.asu.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1137)

**TESS**   
Transcription element search system   
[database](http://www.cbil.upenn.edu/cgi-bin/tess/tess)  [summary](http://www.oxfordjournals.org/nar/database/summary/227)

**TFClass** Edgar Wingender1,2, Torsten Schoeps1 and JÃ¼rgen DÃ¶nitz1   
TFClass: An expandable hierarchical classification of human transcription factors   
[database](http://tfclass.bioinf.med.uni-goettingen.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1571)

**TFGD** Zhangjun Fei, Je-Gun Joung, Xuemei Tang, Yi Zheng, Mingyun Huang, Je Min Lee, Ryan McQuinn, Denise M. Tieman, Rob Alba, Harry J. Klee, and James J. Giovannoni   
Tomato Functional Genomics Database   
[database](http://ted.bti.cornell.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1448)

**TGD - Tetrahymena Genome Database** Stover, N.A., Krieger, C.J. and Cherry, J.M.   
Tetrahymena thermophila genes, gene products and their annotations.   
[database](http://www.ciliate.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/873)

**The *Arabidopsis* Information Resource (TAIR)** Lamesch, Philippe; Berardini, Tanya; Li, Donghui; Swarbreck, David; Wilks, Christopher; Sasidharan, Rajkumar; Muller, Robert; Dreher, Kate; Alexander, Debbie; Garcia   
The *Arabidopsis thaliana* information resource   
[database](http://www.arabidopsis.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/97)

**The Autism Chromosome Rearrangement Database** Zhang J., Kanematsu E., Duggan G., Khaja R., MacDonald J.R. and Scherer S.W.   
Curated collection of genomic features related to autism   
[database](http://projects.tcag.ca/autism/)  [summary](http://www.oxfordjournals.org/nar/database/summary/752)

**The Cell Cycle DB**   
Genes and proteins involved in human and yeast cell cycle   
[database](http://www.itb.cnr.it/cellcycle/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1138)

**The Chromosome 7 Annotation Project** MacDonald J.R., Cheung J., Zhang J., Khaja R., Duggan G., Kanematsu E. and Scherer S.W.   
Human chromosome 7 sequence and annotation   
[database](http://www.chr7.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/596)

**The Comprehensive Microbial Resource** Peterson, J.D., Davidsen, T.M., Zafar N., White O.   
Various data on complete microbial genomes: Uniform annotation, properties of DNA and predicted proteins   
[database](http://cmr.jcvi.org/tigr-scripts/CMR/CmrHomePage.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/66)

**The Gene Indices** Lee, Y., Antonescu, V., Cheung, F., Karamycheva, S., Parvizi, B., Pertea, G., Sultana, R., Sunkara, S., Tsai, J., White, J., Quackenbush, J.   
Non-redundant, gene-oriented clusters   
[database](http://compbio.dfci.harvard.edu/tgi/)  [summary](http://www.oxfordjournals.org/nar/database/summary/5)

**The HIV Positive Selection Mutation Database** Pan C.1, Kim J., Chen L.2, Wang Q.1, Lee C.1,2   
Positively selected mutations in HIV-1 protease and reverse transcriptase   
[database](http://www.bioinformatics.ucla.edu/HIV/)  [summary](http://www.oxfordjournals.org/nar/database/summary/990)

**The Immune Epitope Database (IEDB)** Vita, R.1\*, Zarebski, L.1, Greenbaum, J.A.1, Emami, H.2, Hoof, I.3, Salimi, N.1, Damle, R.1, Sette, A.1, and Peters, B.1   
Antibody and T cell epitopes for primates, rodents, and other animals   
[database](http://www.iedb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/779)

**The Lafora Database** Zhang J., MacDonald J.R., Khaja R., Duggan G., Ianzano L., Chan E.M., Lohi H., Minassian B.A. and Scherer SW.   
Mutations and polymorphisms associated with Lafora progressive myoclonus epilepsy   
[database](http://projects.tcag.ca/lafora/)  [summary](http://www.oxfordjournals.org/nar/database/summary/753)

**The Sequence Read Archive (SRA)** Yuichi Kodama, Martin Shumway and Rasko Leinonen   
Sequence Read Archive   
[database](http://www.ncbi.nlm.nih.gov/sra or http://www.ebi.ac.uk/ena or http://trace.ddbj.nig.ac.jp)  [summary](http://www.oxfordjournals.org/nar/database/summary/1456)

**The Small Subunit rRNA Modification Database**   
Modified nucleosides in small subunit rRNA   
[database](http://library.med.utah.edu/SSUmods/)  [summary](http://www.oxfordjournals.org/nar/database/summary/754)

**The tmRNA website**   
tmRNA sequences, foldings, and alignments   
[database](http://www.indiana.edu/~tmrna/)  [summary](http://www.oxfordjournals.org/nar/database/summary/249)

**THGS - Transmembrane Helices in Genome Sequences**   
Predicted transmembrane proteins   
[database](http://pranag.physics.iisc.ernet.in/thgs/)  [summary](http://www.oxfordjournals.org/nar/database/summary/587)

**ThYme** David C. Cantu, Yingfei Chen, Matthew L. Lemons, and Peter J. Reilly   
Thioester-active enzymes   
[database](http://www.enzyme.cbirc.iastate.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1449)

**TIARA** Dongwan Hong1, Sung-Soo Park2, Young Seok Ju1,3,4, Sheehyun Kim1,4, Jong-Yeon Shin1,2, Sujung Kim2, Saet-Byeol Yu2, Won-Chul Lee2, Seungbok Lee5, Hansoo Park6, Jong-Il Kim1,2,5 and Jeong-Sun Seo1,2,3,4,5   
High-resolution microarray, CGH and NGS data archive for human genomes   
[database](http://tiara.gmi.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1584)

**TIARA - Total Integrated Archive of short-Read and Array** Dongwan Hong1, Sung-Soo Park2, Young Seok Ju1,3,4, Sheehyun Kim1,4, Jong-Yeon Shin1,2, Sujung Kim2, Saet-Byeol Yu2, Won-Chul Lee2, Seungbok Lee5, Hansoo Park6, Jong-Il Kim1,2,5 and Jeong-Sun Seo1,2,3,4,5   
Totally Integrated high-resolution Array cgh data and high-throughput sequencing Read data Archive for human whole genomes   
[database](http://tiara.gmi.ac.kr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1450)

**TIGR Maize database** Chan A.P.1, Pertea G.1, Cheung F.1, Lee D.1, Zheng L.1, Whitelaw C.1, Pontaroli A.C.2, SanMiguel P.3, Yuan Y.4, Bennetzen J.2, Barbazuk B.5, Quackenbush J.1,6,7 and Rabinowicz P.D.1   
Maize genome sequencing consortium site   
[database](http://maize.tigr.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/874)

**TIGR Plant Transcript Assembly database** Childs K.L., Hamilton J., Zhu W., Ly E., Cheung F., Wu H., Rabinowicz P.D., Town C.D., Buell C.R., Chan A.P.   
Transcript assemblies of plant EST and cDNA sequences   
[database](http://plantta.tigr.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/940)

**TIGRFAMs**   
Functional identification of proteins   
[database](http://www.jcvi.org/cgi-bin/tigrfams/index.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/199)

**TiProD** Chen X.1, Wu J.-M.1, Hornischer K.2, Kel A.2 and Wingender E.2,3   
Human promoter sequences   
[database](http://tiprod.bioinf.med.uni-goettingen.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/904)

**TissueNet** Esti Yeger-Lotem   
Tissue distribution of protein-protein interactions   
[database](http://netbio.bgu.ac.il/tissuenet/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1635)

**TMAD**   
Stanford Tissue Microarray Database   
[database](http://tma.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1139)

**TMBETA-GENOME** Gromiha M.M.1, Yabuki Y.1, Kundu S.2, Suharnan S.2 and Suwa M.1   
Beta-barrel membrane proteins encoded in various genomes   
[database](http://tmbeta-genome.cbrc.jp/annotation/)  [summary](http://www.oxfordjournals.org/nar/database/summary/938)

**TMFunction** Gromiha, M.M., Yabuki, Y., Suresh, M.X., Thangakani, A.M., Suwa, M. and Fukui, K.   
Database for functional residues in membrane proteins.   
[database](http://tmbeta-genome.cbrc.jp/TMFunction/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1212)

**TMPad** Allan Lo, Cheng-Wei Cheng, Yi-Yuan Chiu, Ting-Yi Sung, and Wen-Lian Hsu   
Helix-packing folds in transmembrane proteins   
[database](http://bio-cluster.iis.sinica.edu.tw/TMPad/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1451)

**tmRDB** Burks, J1, Zwieb, C2, Gorodkin, J3, Knudsen, B4 and Wower, J4   
tmRNA (10Sa RNA) sequences and alignments   
[database](http://rnp.uthscsa.edu/rnp/tmRDB/tmRDB.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/250)

**TomatEST DB** D'Agostino N.1, Aversano M.1, Frusciante L.2 and Chiusano M.L.1   
EST collection from multiple tomato species   
[database](http://biosrv.cab.unina.it/tomatestdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1016)

**TopDB**   
Topology Data Bank of transmembrane proteins   
[database](http://topdb.enzim.hu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1140)

**TopFIND** Philipp Lange   
Protein N- and C-termini and protease processing   
[database](http://clipserve.clip.ubc.ca/topfind)  [summary](http://www.oxfordjournals.org/nar/database/summary/1476)

**TOPOFIT-DB** Leslin C., Abyzov A. and Ilyin V.   
Protein structural alignments based on the TOPOFIT method   
[database](http://topofit.ilyinlab.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/941)

**TopoSNP**   
Topographic database of non-synonymous SNPs   
[database](http://gila.bioengr.uic.edu/snp/toposnp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/590)

**TOPPR** Lennart Martens   
The Online Protein Processing Resource   
[database](http://iomics.ugent.be/toppr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1604)

**TOPS - Topology Of Protein Structures**   
Topology of protein structures database   
[database](http://www.tops.leeds.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/310)

**TOPSAN** Kyle Ellrott 1,2, Christian M. Zmasek 3,4, Dana Weekes 1,4, S. Sri Krishna ,4 Constantina Bakolitsa 1,4, Adam Godzik 1,2,3,4 and John Wooley 1,2,4   
The Open Protein Structure Annotation Network   
[database](http://www.topsan.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1335)

**ToxoDB - The *Toxoplasma gondii* Genome Database** Kissinger, J.C.1, Gajria, B.2, Li, L.2, Paulsen, I.T.3, Roos, D.S.2   
Apicomplexan parasite Toxoplasma gondii genome   
[database](http://toxodb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/359)

**TPMD - Taiwan polymorphic microsatellite marker database**   
Microsatellite markers genotyped in Taiwanese populations   
[database](http://tpmd.nhri.org.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/755)

**TRACTOR db** abelito@bioinfo.cu   
Transcription factors in gamma-proteobacteria database   
[database](http://www.tractor.lncc.br/)  [summary](http://www.oxfordjournals.org/nar/database/summary/756)

**TRANSCompel®** Kel-Margoulis, O.1, Kel, A.1, Reuter, I.1, Deineko, I.2, Wingender, E.1   
Transcriptional regulation, composite regulatory elements   
[database](http://www.gene-regulation.com/pub/databases.html#transcompel)  [summary](http://www.oxfordjournals.org/nar/database/summary/345)

**TRANSFAC®** Matys, V., Kel-Margoulis, O.V., Fricke, E., Liebich, I., Land, S., Barre-Dirrie, A., Reuter, I., Chekmenev, D., Krull, M., Hornischer, K., Voss, N., Stegmaier, P., Lewicki-Potapov, B., Saxel, H., Kel, A.E., and Wingender, E.   
Transcription factors, gene regulation, positional weight matrices   
[database](http://www.gene-regulation.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/340)

**TransfactomeDB**   
Nucleotide sequence specificity and condition-specific regulatory activity of trans-acting factors   
[database](http://bussemaker.bio.columbia.edu:8080/YeastTransfactomeDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1141)

**TransMembrane Protein DataBase** Ikeda M., Arai M., Okuno T. and Shimizu T.   
Transmembrane proteins with experimentally-characterized transmembrane topologies   
[database](http://bioinfo.si.hirosaki-u.ac.jp/~TMPDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/589)

**TransmiR** Juan Wang, Ming Lu, Chengxiang Qiu, and Qinghua Cui   
Regulatory relations between transcription factors and microRNAs   
[database](http://cmbi.bjmu.edu.cn/transmir)  [summary](http://www.oxfordjournals.org/nar/database/summary/1343)

**TRANSPATH®** Krull, M.1, Pistor, S.1, Voss, N.1, Kel, A.1, Reuter, I.1, Potapov, A.1,2, Choi, C.1, Kel-Margoulis, O.1, Wingender, E.1,2   
Signal transduction pathways, vizualization and expression data analysis   
[database](http://www.gene-regulation.com/pub/databases.html#transpath)  [summary](http://www.oxfordjournals.org/nar/database/summary/341)

**TranspoGene**   
Transposed elements influence on the transcriptome of seven vertebrates and invertebrates   
[database](http://transpogene.tau.ac.il/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1142)

**TransportDB**   
Sequences and classification of predicted membrane transporters encoded in complete genomes   
[database](http://www.membranetransport.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/311)

**Transterm** Jacobs, G.2, Rackham, O.1, Stockwell, P. A.1, Brown, C. M.1   
Codon usage, start and stop signals   
[database](http://mrna.otago.ac.nz/Transterm.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/48)

**TRBase** Boby T., Patch A.-M. and Aves S.J.   
Tandem repeats in the human genome   
[database](http://trbase.ex.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/684)

**TRDB**   
Tandem repeats in genomic DNA   
[database](http://tandem.bu.edu/cgi-bin/trdb/trdb.exe)  [summary](http://www.oxfordjournals.org/nar/database/summary/1035)

**TRED - Transcriptional Regulatory Element Database**   
Transcriptional regulatory element database   
[database](http://rulai.cshl.edu/tred/)  [summary](http://www.oxfordjournals.org/nar/database/summary/757)

**Tree of Life**   
Information on phylogeny and biodiversity   
[database](http://tolweb.org/tree/phylogeny.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/301)

**TreeBase** Piel W.H.1 and Miller M.A.2   
Phylogenetic trees and the data matrices used to generate them   
[database](http://www.treebase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/906)

**TreeFam**   
Tree families database: phylogenetic trees of animal genes   
[database](http://www.treefam.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/875)

**TRIP** Young-Cheul Shin 1, Soo-Yong Shin 2, Insuk So 1, Dongseop Kwon 3, and Ju-Hong Jeon 1   
Protein-protein interactions for mammalian TRP channels   
[database](http://www.trpchannel.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1336)

**TriTrypDB**   
Functional genomic data for Trypanosomatid pathogens   
[database](http://www.tritrypdb.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1360)

**tRNAdb** Joern Puetz   
Compilation of tRNA sequences and tRNA genes   
[database](http://trnadb.bioinf.uni-leipzig.de/)  [summary](http://www.oxfordjournals.org/nar/database/summary/251)

**tRNADB-CE**   
tRNA Gene DataBase Curated by Experts   
[database](http://trna.nagahama-i-bio.ac.jp/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1223)

**trome, trEST and trGEN**   
Databases of predicted human protein sequences   
[database](ftp://ftp.isrec.isb-sib.ch/pub/databases/)  [summary](http://www.oxfordjournals.org/nar/database/summary/312)

**TropGENE DB** Ruiz, M.   
Genetics and genomics of tropical crops: sugarcane, banana, cocoa   
[database](http://tropgenedb.cirad.fr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/313)

**TRRD** Kolchanov N.A.1,2, Ananko E.A.1,2, Podkolodnaya O.A.1,2, Ignatieva E.V.1,2, Stepanenko I.L.1,2, Khlebodarova T.M.1,2, Merkulova T.I.1,2, Podkolodny N.L.1,2, Grigorovich D.A.1,2, Poplavsky A.S.1,2, Romashchenko A.G.1,2   
Transcription regulatory regions of eukaryotic genes   
[database](http://wwwmgs.bionet.nsc.ru/mgs/gnw/trrd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/49)

**TrSDB**   
Transcription factor database   
[database](http://ibb.uab.es/trsdb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/314)

**TSGene** Zhongming Zhao   
Tumor Suppressor Gene database   
[database](http://bioinfo.mc.vanderbilt.edu/TSGene/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1644)

**TTD - Therapeutic Target Database** Chen, Yuzong; Zhu, Feng; Shi, Zhe; Qin, Chu; Tao, Lin; han, bucong ,; Zhang, Peng.,   
Therapeutic Target Database   
[database](http://bidd.nus.edu.sg/group/cjttd/TTD.asp)  [summary](http://www.oxfordjournals.org/nar/database/summary/315)

**Tumor Associated Gene database** Chan H.-H.1, Tsai S.-J.2,3, Sun H.S.1,3   
Tumor-associated genes   
[database](http://www.binfo.ncku.edu.tw/TAG/GeneDoc.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/922)

**Tumor Gene Family Databases (TGDBs)**   
Cellular, molecular, and biological data about genes involved in various cancers   
[database](http://www.tumor-gene.org/tgdf.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/155)

**U12DB** Alioto T.   
A database of orthologous U12-type spliceosomal introns   
[database](http://genome.crg.es/cgi-bin/u12db/u12db.cgi)  [summary](http://www.oxfordjournals.org/nar/database/summary/937)

**UCbase**   
Database of Ultraconserved sequences   
[database](http://ucbase.unimore.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1230)

**UCNEbase** Philipp Bucher   
A database of ultraconserved non-coding elements and gene regulatory blocks   
[database](http://ccg.vital-it.ch/UCNEbase/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1587)

**UCSC Archaeal Genome Browser** Patricia P. Chan, Andrew D. Holmes, Andrew M. Smith, Danny Tran and Todd M. Lowe   
The UCSC Archaeal Genome Browser   
[database](http://archaea.ucsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/876)

**UCSC Cancer Genomics Browser** Craft, B., Swatloski, T., Goldman, M., Ellrott, K., Ma, S., Wilks, C., Stuart, J., Haussler, D., and Zhu, J.   
Visualization and integration of cancer genomics and clinical data   
[database](http://genome-cancer.cse.ucsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1452)

**UCSC Genome Browser** Karolchik, D.1, Barber, G.P.1, Casper, J.1, Clawson, H.1, Cline, M.S.1, Diekhans, M.1, Dreszer, T.R.1, Fujita, P.A.1, Guruvadoo, L.1, Haeussler, M.1, Harte, R.A.1, Heitner, S.1, Hinrichs, A.S.1, Learned, K.1, Lee, B.T.1, Li, C.H.1, Raney, B.J.1, Rhead, B.2, Rosenbloom, K.R.1, Sloan, C.A.3, Speir, M.L.1, Zweig, A.S.1, Haussler, D.1,4, Kuhn, R.M.1, and Kent, W.J.1   
Genome assemblies and annotation   
[database](http://genome.ucsc.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/316)

**UCSD-Nature Signaling Gateway Molecule Pages**   
Expert-authored and peer-reviewed information on mammalian proteins involved in cellular signaling   
[database](http://www.signaling-gateway.org/molecule/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1143)

**UgMicroSatdb**   
UniGene MicroSatellite database: short tandem repeats from various eukaryotic genomes   
[database](http://ipu.ac.in/usbt/UgMicroSatdb.htm)  [summary](http://www.oxfordjournals.org/nar/database/summary/1144)

**UK CropNet**   
Genome mapping in crop plants   
[database](http://ukcrop.net/)  [summary](http://www.oxfordjournals.org/nar/database/summary/67)

**UM-BBD** Ellis, L.B.M., Wackett, L.P.   
Microbial biocatalytic reactions and biodegradation pathways   
[database](http://umbbd.msi.umn.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/117)

**UMD-BRCA1/BRCA2 databases** Sandrine Caputo   
BRCA1 and BRCA2 mutations detected in France   
[database](http://www.umd.be/BRCA1/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1535)

**UniGene**   
Non-redundant, gene-oriented clusters   
[database](http://www.ncbi.nlm.nih.gov/sites/entrez?db=unigene)  [summary](http://www.oxfordjournals.org/nar/database/summary/6)

**UniHI** Ravi Kiran Reddy Kalathur1, Jose Pedro Pinto1, Miguel A. Hernandez-Prieto1, Rui S. R. Machado1, Dulce Almeida1, Gautam Chaurasia2 and Matthias E. Futschik1   
Unified Human Interactome: human protein-protein interactions   
[database](http://www.unihi.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/960)

**UniParc** Apweiler R.1, Bairoch A.2 and Wu C.H.3,4   
UniProt archive: a repository of all protein sequences   
[database](http://www.uniprot.org/uniparc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/775)

**UniPathway** Anne Morgat   
Metabolic pathway information in UniProt knowledge base   
[database](http://www.grenoble.prabi.fr/obiwarehouse/unipathway)  [summary](http://www.oxfordjournals.org/nar/database/summary/1513)

**UniPROBE**   
Universal Protein binding microarray Resource for Oligonucleotide Binding Evaluation   
[database](http://thebrain.bwh.harvard.edu/pbms/webworks_pub/index.php)  [summary](http://www.oxfordjournals.org/nar/database/summary/1209)

**UniProt** Apweiler R.1, Bairoch A.2 and Wu C.H.3,4   
Now UniProt/Swiss-Prot, part of the UniProt knowledgebase   
[database](http://www.uniprot.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/197)

**UniProt** The UniProt Consortium1,2,34   
Universal Protein knowledgebase, combined information from Swiss-Prot, TrEMBL, and PIR   
[database](http://www.uniprot.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/318)

**UniProtKB - Gene Ontology Annotation** Dimmer, Emily; Huntley, Rachael; Alam-Faruque, Yasmin; Sawford, Tony; O'Donovan, Claire; Martin, Maria; Auchincloss, Andrea; Axelsen, Kristian; Blatter, Marie-Claude; Boutet, Emmanuel; Braconi-Quintaje, Silvia; Breuza, Lionel; Argoud-Puy, Ghislaine; Bely, Benoit; Bridge, Alan; Browne, Paul; Chan, Wei Mun; Coudert, Elisabeth; Cusin, Isabelle; Duek Roggli, Paula; Eberhardt, Ruth; Estreicher, Anne; Famiglietti, Livia; Ferro Rojas, Serenella; Feuermann, Marc; Gardner, Michael; Gos, Arnaud; Gruaz-Gumowski, Nadine; Hinz, Ursula; Hulo, Chantal; James, Janet; Jimenez, Silvia; Jungo, Florence; Keller, Guillaume; Laiho, Kati; Legge, Duncan; Le Mercier, Philippe; Lieberherr, Damien; Magrane, Michele; Masson, Patrick; Moinat, Madelaine; Pedruzzi, Ivo; Pichler, Klemens; Poggioli, Diego; Poux, Sylvain; Rivoire, Catherine; Roechert, Bernd; Schneider, Michel; Sehra, Harminder; Stanley, Eleanor; Stutz, Andre; Sundaram, Shyamala; Michael, Tognolli; Bougueleret, Lydie; Xenarios, Ioannis; Apweiler, Rolf   
Assignment of gene products to the Gene Ontology (GO) resource   
[database](http://www.ebi.ac.uk/GOA/)  [summary](http://www.oxfordjournals.org/nar/database/summary/389)

**UniRef** Apweiler R.1, Bairoch A.2 and Wu C.H.3,4   
UniProt non-redundant reference databases: clustered sets of related sequences.   
[database](http://www.uniprot.org/uniref/)  [summary](http://www.oxfordjournals.org/nar/database/summary/776)

**UniSave** Apweiler R.1, Bairoch A.2 and Wu C.H.3,4   
UniProtKB Sequence/Annotation Version Archive   
[database](http://www.ebi.ac.uk/uniprot/unisave/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1165)

**UniSTS**   
Unified non-redundant view of sequence tagged sites with marker and mapping data from a variety of resources   
[database](http://www.ncbi.nlm.nih.gov/unists/)  [summary](http://www.oxfordjournals.org/nar/database/summary/319)

**UniTrap**   
Unambiguous insertions in the same subgenic regions of annotated mouse genes   
[database](http://unitrap.crg.es/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1145)

**UniVec**   
Vector sequences, adapters, linkers and primers used in DNA cloning, can be used to check for vector contamination   
[database](http://www.ncbi.nlm.nih.gov/VecScreen/UniVec.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/320)

**University of Pittsburgh Bioinformatics Resources Collection** Chen Y.-B.1, Chattopadhyay A1, Bergen P.1, Gadd C.2, Tannery, N.1   
A collection of bioinformatic databases and software tools   
[database](http://www.hsls.pitt.edu/guides/genetics/obrc/)  [summary](http://www.oxfordjournals.org/nar/database/summary/992)

**UTGB/medaka**   
University of Tokyo Genome Browser of medaka fish (Oryzias latipes) genomic data   
[database](http://medaka.utgenome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1146)

**UTRdb/UTRsite** Pesole, G.1, Liuni, S.2, Grillo, G.2, Licciulli, F.3, Mignone, F.1, Gissi, C.1, Saccone, C.3   
5' and 3' UTRs of eukaryotic mRNAs and relevant functional patterns   
[database](http://utrdb.ba.itb.cnr.it/)  [summary](http://www.oxfordjournals.org/nar/database/summary/252)

**UTRome**   
3'UTRs and their functional elements in C. elegans   
[database](http://www.utrome.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1147)

**UUCD** Zexian Liu   
Ubiquitin and ubiquitin-like conjugation database   
[database](http://uucd.biocuckoo.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1610)

**ValidNESs** Hsueh-Fen Juan   
No description supplied   
[database](http://validness.ym.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1605)

**VarySysDB**   
Various types of human gene polymorphism   
[database](http://h-invitational.jp/varygene/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1262)

**VBASE2** Retter, I.1, Althaus, H.H.2,3, MÜnch, R.4 and MÜller, W.1   
Variable genes from the Ig loci of human and mouse   
[database](http://www.vbase2.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/621)

**VBI Microbial Database**   
Virginia Bioinformatics Institute Phytophtora database   
[database](http://vmd.vbi.vt.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/877)

**VectorBase** Megy, Karyn1; Emrich, Scott2,3; Lawson, Dan1; Campbell, David4; Dialynas, Emmanuel5; Hughes, Daniel1; Koscielny, Gautier1; Louis, Christos5,6; MacCallum, Robert7; Redmond, Seth7; Sheehan, Andrew4; Topalis, Pantelis5; Wilson, Derek1 amd the VectorBase Consortium   
Invertebrate Vectors of Human Pathogens   
[database](http://www.vectorbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1031)

**VectorDB**   
Characterization and classification of nucleic acid vectors   
[database](http://downloads.yeastgenome.org/unpublished_data/vectordb/)  [summary](http://www.oxfordjournals.org/nar/database/summary/302)

**VEGA**   
Vertebrate genome annotation database   
[database](http://vega.sanger.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/784)

**VFDB - Virulence Factors Database** Yang, Jian; Chen, Lihong; Xiong, Zhaohui; Sun, Lilian; Jin, Qi   
Reference database for microbial virulence factors   
[database](http://www.mgc.ac.cn/VFs/)  [summary](http://www.oxfordjournals.org/nar/database/summary/760)

**VIDA**   
Virus genome open reading frames   
[database](http://www.biochem.ucl.ac.uk/bsm/virus_database/VIDA.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/201)

**VIOLIN**   
Vaccine Investigation and Online Information Network   
[database](http://www.violinet.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1148)

**VIPERdb** Shepherd, C.M., Borelli, I.A., Lander, G., Natarajan, P., Siddavanahalli, V.1, Bajaj, C.1, Johnson, J.E., Brooks III, C.L., Reddy, V.S.   
Icosahedral virus capsid structures   
[database](http://viperdb.scripps.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/761)

**ViPR** Pickett, Brett; Sadat, Eva; Zhang, Yun,; Noronha, Jyothi; Squires, Richard; Hunt, Victoria; Liu, Mengya; Kumar, Sanjeev; Zaremba, Sam; Gu, Zhiping; Zhou, Liwei; Larsen, Christopher; Dietrich, Jon; Klem, Ed; Scheuermann, Richard   
Virus Pathogen and analysis Resource   
[database](http://www.viprbrc.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1051)

**Vir-Mir db**   
Prediction of viral microRNA candidate hairpins   
[database](http://alk.ibms.sinica.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1149)

**Viral Bioinformatics Resource** Upton C.1 and Lefkowitz E.J.2   
Viral genomes, orthologous genes and gene families   
[database](http://www.biovirus.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/798)

**ViralORFeome** J. Pellet, L. Tafforeau, M. Lucas-Hourani, V. Navratil, L. Meyniel, G. Achaz, A. Guironnet-Paquet, A. Aublin-Gex, G. Caignard, P. Cassonnet, A. Chaboud, T. Chantier, A. Deloire, C. Demeret, M. Le Breton, G. Neveu, L. Jacotot, P. Vaglio, S. Delmotte, C. Gautier, C. Combet, G. Deleage, M. Favre, F. Tangy, Y. Jacob, P. Andre, V. Lotteau, C. Rabourdin-Combe, and P. O. Vidalain   
A reference collection of viral ORFs and their clones   
[database](http://www.viralorfeome.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1357)

**ViralZone** Chantal Hulo 1, Edouard de Castro 1, Patrick Masson 1, Lydie Bougueleret 1,Amos Bairoch 2,3, Ioannis Xenarios 1,4 and Philippe Le Mercier 1   
Molecular and epidemiological information on viral genera and families   
[database](http://viralzone.expasy.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1337)

**VirGen**   
Annotated and curated database for complete viral genome sequences   
[database](http://bioinfo.ernet.in/virgen/virgen.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/397)

**VirHostNet**   
A knowledgebase of virus-host molecular interaction networks   
[database](http://pbildb1.univ-lyon1.fr/virhostnet/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1261)

**VirOligo** Onodera K., Song Y. and Melcher U.   
Virus-specific oligonucleotides for PCR and hybridization   
[database](http://viroligo.okstate.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/303)

**VIRsiRNAdb** Manoj Kumar   
Experimentally validated Viral siRNA/shRNA   
[database](http://crdd.osdd.net/servers/virsirnadb)  [summary](http://www.oxfordjournals.org/nar/database/summary/1467)

**VirusMINT**   
Molecular interactions between human and viral proteins   
[database](http://mint.bio.uniroma2.it/virusmint/Welcome.do)  [summary](http://www.oxfordjournals.org/nar/database/summary/1247)

**VISTA Enhancer Browser** Visel A.1, Minovitsky S.1, Dubchak I.1,2 and Pennacchio L.A.1,2   
Enhancer elements in the human genome   
[database](http://enhancer.lbl.gov/)  [summary](http://www.oxfordjournals.org/nar/database/summary/968)

**ViTa**   
microRNAs targets of the influenza virus   
[database](http://vita.mbc.nctu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1039)

**VKCDB - Voltage-gated K+ Channel Database**   
Voltage-gated potassium channel database   
[database](http://vkcdb.biology.ualberta.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/399)

**VnD** Jin Ok Yang 1, Sangho Oh 1, Gunhwan Ko 1, Seong-Jin Park 1, Woo-Yeon Kim 1,Byungwook Lee 1 and Sanghyuk Lee 1,2   
Structure-centric database of disease-related SNPs and drugs   
[database](http://vnd.kobic.re.kr:8080/VnD/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1338)

**VNTR Locus Database** Chang C.H.1,2, Chang Y.C.3, Underwood A.4, Chiou C.S.5, Kao C.Y.1   
Bacterial Variable Number Tandem Repeat locus database   
[database](http://vntr.csie.ntu.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/965)

**Voronoia**   
A database for the computation of atomic packing density values of protein structures   
[database](http://bioinformatics.charite.de/voronoia/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1255)

**Voronoia4RNA** Jochen Ismer   
Packing of RNA molecules and complexes   
[database](http://proteinformatics.charite.de/voronoia4rna/tools/v4rna/index)  [summary](http://www.oxfordjournals.org/nar/database/summary/1612)

**WDDD - Worm Developmental Dynamics Database** Kyoda, K.1,2,3, Adachi, E. 2,3, Masuda, E. 4, Nagai, Y. 4, Suzuki, Y. 4, Oguro, T. 4, Urai, M. 4, Arai, R. 3, Furukawa, M. 3, Shimada, K. 2, Kuramochi, J. 2, Nagai, E. 2, and Onami, S. 1,2,3,4,5,6   
Worm Developmental Dynamics Database   
[database](http://so.qbic.riken.jp/wddd/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1624)

**WebGeSTer DB** Anirban Mitra 1, Anil K. Kesarwani 2, Debnath Pal 2 and Valakunja Nagaraja 1,3   
Genome Scanner for bacterial transcriptional Terminators   
[database](http://pallab.serc.iisc.ernet.in/gester/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1339)

**wFleaBase** Gilbert, D.G. and Colbourne, J.K.   
Genome database of the eco-genetic model organism waterflea, *Daphnia pulex*   
[database](http://wfleabase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/925)

**WhoGA** Matsumoto, T.1, Mukai, Y.1, Namiki, N.1, Sakai, Y.2, Makino, K.2, Sakata, K.2, Antonio, B.1, Sasaki, T.1   
Integrated database for rice genome analysis and sequencing   
[database](http://rgp.dna.affrc.go.jp/whoga/)  [summary](http://www.oxfordjournals.org/nar/database/summary/79)

**WholeCellKB - Model Organism Databases for Comprehensive Whole-Cell Models** Karr, J.R.1, Sanghvi, J.C.2, Macklin, D.N.2, Arora, A.3 and Covert, M.W.2   
An integrated pathway/genome database for whole-cell modeling   
[database](http://wholecellkb.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1631)

**WikiPathways** Thomas Kelder   
Wiki for curation of biological pathways   
[database](http://www.wikipathways.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1565)

**Wnt Database** Nusse R.   
Wnt proteins and phenotypes   
[database](http://wnt.stanford.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/202)

**WorfDB - Worm ORF Database**   
Predicted proteins from C. elegans   
[database](http://worfdb.dfci.harvard.edu/)  [summary](http://www.oxfordjournals.org/nar/database/summary/304)

**WormBase** Yook, Karen1; Harris, Todd2; Bieri, Tamberlyn3; Cabunoc, Abigail2; Chan, Juancarlos1; Chen, Wen1; Davis, Paul4; De La Cruz, Norie2; Duong, Adrian2; Fang, Ruihua1; Ganesan, Uma1; Grove, Christian1; Howe, Kevin4; Kadam, Snehalata1; Kishore, Ranjana1; Lee, Raymond1; Li, Yuling1; MÃ¼ller, Hans-Michael1; Nakamura, Cecilia1; Nash, Bill3; Ozersky, Philip3; Paulini, Michael4; Raciti, Daniela1; Schindelman, Gary1; Shi, Xiaoqi2; Schwarz, Erich1; Tuli, Mary Ann5; Van Auken, Kimberly1; Wang, Daniel1; Wang, Xiaodong1; Williams, Gary4; Hodgkin, Jonathan6; Berriman, Matt5; Durbin, Richard5; Kersey, Paul4; Spieth, John3; Stein, Lincoln2; Sternberg, Paul1,7   
Data repository for *C. elegans* and *C. briggsae*: curated genome annotation, genetic and physical maps, pathways   
[database](http://www.wormbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/51)

**WormBook** Girard, L.1, Fiedler, T.3, Harris, T.3, Carvalho, F.4, Antoshechkin, I.1, Han, M.5, Sternberg, P.2, Stein, L.3 and Chalfie, M.6   
Peer-reviewed chapters on the biology of *C. elegans*   
[database](http://www.wormbook.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/961)

**WormQTL** Morris Swertz   
Natural variation data in Caenorhabditis spp.   
[database](http://www.wormqtl.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1625)

**X:MAP**   
Annotation and visualization of genome structure for Affymetrix exon array analysis   
[database](http://annmap.picr.man.ac.uk/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1150)

**xanthusBase** Welch, Roy (contact); Pratt-Szeliga, Philip; Skewes, Aaron; Yan, Jinyuan; Welch, Laura   
Model organism database for *Myxococcus xanthus* and *Sorangium cellulosum*   
[database](http://www.xanthusbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1017)

**XenBase** Bowes, J.B.1, Snyder, K.A.1, Segerdell, E.2, Gibb, R.1, Jarabek, C.1, Noumen, E.1, Pollet, N.3, and Vize, P.D.1,2   
Xenopus model organism database   
[database](http://www.xenbase.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1151)

**YDPM - Yeast Deletion Project**   
Yeast deletion project and mitochondria database   
[database](http://www-deletion.stanford.edu/YDPM/YDPM_index.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/306)

**Yeast Intron Database** Telerski, A.1, Centers, R. J.2, Ares, M.2   
Splicesomal introns in *Saccharomyces cerevisiae*   
[database](http://www.cse.ucsc.edu/research/compbio/yeast_introns.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/342)

**Yeast Resource Center**   
Yeast resource center public data repository   
[database](http://www.yeastrc.org/pdr/)  [summary](http://www.oxfordjournals.org/nar/database/summary/763)

**Yeast snoRNA Database**   
Yeast small nucleolar RNAs   
[database](http://people.biochem.umass.edu/fournierlab/snornadb/snoRNA_DataBase.html)  [summary](http://www.oxfordjournals.org/nar/database/summary/254)

**YEASTRACT** Teixeira M.C.1,3, Monteiro2, Jain P.2, Tenreiro S.1,3, Fernandes A.R.1,3, Mira N.1,3, Alenquer M.1,3, Freitas A.T.2,3, Oliveira A.L.2,3 and SÃ¡-Correia I.1,3   
Yeast transcriptional regulation   
[database](http://www.yeastract.com/)  [summary](http://www.oxfordjournals.org/nar/database/summary/792)

**YeTFaSCo** Carl de Boer   
Yeast Transcription Factor binding Site sequence Collection   
[database](http://yetfasco.ccbr.utoronto.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1462)

**YGOB** Byrne K.P. and Wolfe K.H.   
Yeast Gene Order Browser   
[database](http://wolfe.gen.tcd.ie/ygob/)  [summary](http://www.oxfordjournals.org/nar/database/summary/791)

**YH database**   
A database for the first Asian diploid genome   
[database](http://yh.genomics.org.cn/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1184)

**YM500** Hsei-Wei Wang   
smRNA-seq database for miRNA research   
[database](http://ngs.ym.edu.tw/ym500/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1601)

**YMDB** David Wishart   
Yeast Metabolome Database   
[database](http://www.ymdb.ca/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1520)

**yMGV - Yeast microarray global viewer**   
Yeast expression data   
[database](http://www.transcriptome.ens.fr/ymgv/)  [summary](http://www.oxfordjournals.org/nar/database/summary/307)

**YMPD**   
Yeast mitochondrial protein database   
[database](http://bmerc-www.bu.edu/projects/mito/)  [summary](http://www.oxfordjournals.org/nar/database/summary/531)

**YPA** Darby Tien-Hao Chang, Cheng-Yi Huang, Chi-Yeh Wu, and Wei-Sheng Wu   
Yeast Promoter Atlas   
[database](http://ypa.ee.ncku.edu.tw/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1454)

**ZFIN** Howe, Doug; Bradford, Yvonne; Conlin, Tom; Eagle, Anne; Fashena, David; Frazer, Ken; Knight, Jonathan; Mani, Prita; Martin, Ryan; Moxon, Sierra; Paddock, Holly; Pich, Christian; Ramachandran, Sridhar; Ruef, Barbara; Ruzicka, Leyla; Schaper, Kevin; Shao, Xiang; Singer, Amy; Sprunger, Brock; Van Slyke, Ceri; Westerfield, Monte   
Genetic, genomic, and developmental data from zebrafish   
[database](http://zfin.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/101)

**zfishbook** Stephen C Ekker   
Transposon-labeled mutants in zebrafish   
[database](http://zfishbook.org/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1528)

**ZiFDB** Voytas, D., and Fu, F.   
Zinc Finger DataBase   
[database](http://bindr.gdcb.iastate.edu:8080/ZiFDB/)  [summary](http://www.oxfordjournals.org/nar/database/summary/1193)

**ZInC** Shawn Burgess   
Zebrafish Insertions Collection   
[database](http://research.nhgri.nih.gov/zinc)  [summary](http://www.oxfordjournals.org/nar/database/summary/1640)