

IStLS Bioinformatics Resources	<a href="http://www.istls.de/bioinfolinks.php">http://www.istls.de/bioinfolinks.php</a>
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**Courses and lectures**

Bioinformatics - Online Courses and Tutorials	<a href="http://www.bioinformatik.de/cgi-bin/browse/Catalog/Research_and_Education/Online_Courses_and_Tutorials/">http://www.bioinformatik.de/cgi-bin/browse/Catalog/Research_and_Education/Online_Courses_and_Tutorials/</a>
EMBRACE Network of Excellence	<a href="http://www.embracegrid.info/page.php">http://www.embracegrid.info/page.php</a>
EMBNNet Quick Guides	<a href="http://www.embnet.org/node/64">http://www.embnet.org/node/64</a>
EMBNNet Courses	<a href="http://www.embnet.org/">http://www.embnet.org/</a>
Sequence Analysis with distributed Resources	<a href="http://bibiserv.techfak.uni-bielefeld.de/sadr/">http://bibiserv.techfak.uni-bielefeld.de/sadr/</a>
Tutorial Protein Structures (EXPASY) SwissModel	<a href="http://swissmodel.expasy.org/course/course-index.htm">http://swissmodel.expasy.org/course/course-index.htm</a>
CMBI Courses for protein structure	<a href="http://swift.cmbi.ru.nl/teach/courses/index.html">http://swift.cmbi.ru.nl/teach/courses/index.html</a>
2Can Support Portal - Bioinformatics educational resource	<a href="http://www.ebi.ac.uk/2can">http://www.ebi.ac.uk/2can</a>
Bioconductor Workshops	<a href="http://www.bioconductor.org/workshops/">http://www.bioconductor.org/workshops/</a>
CBS Bioinformatics Courses	<a href="http://www.cbs.dtu.dk/courses.php">http://www.cbs.dtu.dk/courses.php</a>
The European School In Bioinformatics (Biosapiens)	<a href="http://www.biosapiens.info/page.php?page=esb">http://www.biosapiens.info/page.php?page=esb</a>

**Institutes Centers Networks**

**Bioinformatics Institutes Germany**

WSI Wilhelm-Schickard-Institut für Informatik - Universitaet Tuebingen	<a href="http://www.uni-tuebingen.de/en/faculties/faculty-of-science/departments/computer-science/department.html">http://www.uni-tuebingen.de/en/faculties/faculty-of-science/departments/computer-science/department.html</a>
WSI Huson - Algorithms in Bioinformatics	<a href="http://www.ab.informatik.uni-tuebingen.de/welcome.html">http://www.ab.informatik.uni-tuebingen.de/welcome.html</a>
WSI Prof. Zell - Computer Architecture	<a href="http://www.ra.cs.uni-tuebingen.de/">http://www.ra.cs.uni-tuebingen.de/</a>
WSI Kohlbacher - Div. for Simulation of Biological Systems	<a href="http://www.abi.informatik.uni-tuebingen.de/">http://www.abi.informatik.uni-tuebingen.de/</a>
WSI Nieselt - Integrated Transcriptomics	<a href="http://www.zbit.uni-tuebingen.de/pas/index.htm">http://www.zbit.uni-tuebingen.de/pas/index.htm</a>
ZBIT - Zentrum Bioinformatik Tuebingen	<a href="http://www.mnf.uni-tuebingen.de/fachbereiche/zentren/zentrum-fuer-bioinformatik-tuebingen/research.html">http://www.mnf.uni-tuebingen.de/fachbereiche/zentren/zentrum-fuer-bioinformatik-tuebingen/research.html</a>
ZBIT Bioinformatics Teaching in Tuebingen	<a href="http://www.mnf.uni-tuebingen.de/fachbereiche/zentren/zentrum-fuer-bioinformatik-tuebingen/teaching.html">http://www.mnf.uni-tuebingen.de/fachbereiche/zentren/zentrum-fuer-bioinformatik-tuebingen/teaching.html</a>
MPI Biological Cybernetics Tuebingen	<a href="http://www.kyb.mpg.de/">http://www.kyb.mpg.de/</a>
MPI Dev Biol Tuebingen - Protein Evolution (Lupas)	<a href="http://www.eb.tuebingen.mpg.de/abteilungen/1-proteinevolution">http://www.eb.tuebingen.mpg.de/abteilungen/1-proteinevolution</a>
Bioinformatik und Information Mining (Berthold) Konstanz	<a href="http://cms.uni-konstanz.de/informatik/berthold/">http://cms.uni-konstanz.de/informatik/berthold/</a>
Studiengang Bioinformatik Muenchen	<a href="http://www.bioinformatik-muenchen.de/">http://www.bioinformatik-muenchen.de/</a>
Bioinformatik Studiengang FU Berlin	<a href="http://www.inf.fu-berlin.de/stud/bioinf-stud/">http://www.inf.fu-berlin.de/stud/bioinf-stud/</a>
institute for bioinformatics and systems biology / mips	<a href="http://www.helmholtz-muenchen.de/index.php?id=3940">http://www.helmholtz-muenchen.de/index.php?id=3940</a>
Bioinformatics University Bielefeld	<a href="http://www.techfak.uni-bielefeld.de/web/Research/Researchgroups">http://www.techfak.uni-bielefeld.de/web/Research/Researchgroups</a>
Bielefeld Bioinformatics Medical Informatics Department	<a href="http://www.techfak.uni-bielefeld.de/ags/bi/index.shtml">http://www.techfak.uni-bielefeld.de/ags/bi/index.shtml</a>
Bielefeld Biomathematics and Theoretical Bioinformatics	<a href="http://www.techfak.uni-bielefeld.de/ags/bm/">http://www.techfak.uni-bielefeld.de/ags/bm/</a>
Bielefeld Genome Informatics	<a href="http://gi.cebitec.uni-bielefeld.de/">http://gi.cebitec.uni-bielefeld.de/</a>
IZIB Interdisziplinäeres Zentrum fuer Bioinformatik Leipzig	<a href="http://www.izbi.uni-leipzig.de/index.php">http://www.izbi.uni-leipzig.de/index.php</a>
ZBI - Zentrum Bioinformatik - University Saarland	<a href="http://www.zbi.uni-saarland.de/zbi/">http://www.zbi.uni-saarland.de/zbi/</a>
MPI Informatics Saarland	<a href="http://www.mpi-inf.mpg.de/">http://www.mpi-inf.mpg.de/</a>
Jena Center for Bioinformatics - JCB	<a href="http://www.jcb-jena.de/">http://www.jcb-jena.de/</a>
BCB - Berlin Centre for Genome Based Bioinformatics	<a href="http://bcbio.molgen.mpg.de/index.php">http://bcbio.molgen.mpg.de/index.php</a>
MPI for Molecular Genetics Berlin - Vingron Computational Molecular Biology	<a href="http://cmb.molgen.mpg.de/">http://cmb.molgen.mpg.de/</a>
Zuse Institute Berlin	<a href="http://www.zib.de/">http://www.zib.de/</a>
ZBH Zentrum Bioinformatik University Hamburg	<a href="http://www.zbh.uni-hamburg.de/">http://www.zbh.uni-hamburg.de/</a>
DKFZ - iBioS Intelligent Bioinformatics Systems	<a href="http://ibios.dkfz.de/tbi/">http://ibios.dkfz.de/tbi/</a>
HUSAR Bioinformatics Lab - Biocomputing Services at DKFZ	<a href="http://genome.dkfz-heidelberg.de/">http://genome.dkfz-heidelberg.de/</a>
TU Braunschweig - Department of Bioinformatics and Biochemistry	<a href="http://bibc.tu-bs.de/bioinf/">http://bibc.tu-bs.de/bioinf/</a>
Plant Bioinformatics Portal Bioinformatics Center Gatersleben-Halle	<a href="http://pgrc-35.ipk-gatersleben.de/portal/page?_pageid=54,38463&amp;_dad=portal&amp;_schema=PORTAL">http://pgrc-35.ipk-gatersleben.de/portal/page?_pageid=54,38463&amp;_dad=portal&amp;_schema=PORTAL</a>

**Networks Germany**

NGFN - Nationales Genomforschungsnetz	<a href="http://www.ngfn.de/">http://www.ngfn.de/</a>
GABI - Genomanalyse im biologischen System Pflanze	<a href="http://www.gabi.de/">http://www.gabi.de/</a>
HepatoSys - Network Systems Biology	<a href="http://www.hepatosys.de/">http://www.hepatosys.de/</a>

**Networks and Centers Europe**

EBI European Bioinformatics Institute	<a href="http://www.ebi.ac.uk/index.html">http://www.ebi.ac.uk/index.html</a>
BioSapiens Network - European Virtual Institute for Genome Annotation	<a href="http://www.biosapiens.info/">http://www.biosapiens.info/</a>
The Sanger Centre UK	<a href="http://www.sanger.ac.uk/">http://www.sanger.ac.uk/</a>
CBS - Center for Biological Sequence Analysis Technical University Denmark	<a href="http://www.cbs.dtu.dk/">http://www.cbs.dtu.dk/</a>
SIB - Swiss Institute of Bioinformatics	<a href="http://www.isb-sib.ch/">http://www.isb-sib.ch/</a>
Pôle Bio-Informatique Lyonnais	<a href="http://pbil.univ-lyon1.fr/">http://pbil.univ-lyon1.fr/</a>
SEQUOIA - Bioinformatics Lille	<a href="http://www2.lifl.fr/SEQUOIA/">http://www2.lifl.fr/SEQUOIA/</a>
Systems Biology Net Spain	<a href="http://www.sysbiol.net/">http://www.sysbiol.net/</a>
Institute Nacional de bioinformática Spain	<a href="http://www.inab.org/">http://www.inab.org/</a>
prbb Barcelona Biomedical Research Park	<a href="http://www.prbb.org/eng/part01/p03.htm">http://www.prbb.org/eng/part01/p03.htm</a>

**Networks and Centers International**

NCBI US National Center for Biotechnology Information	<a href="http://www.ncbi.nlm.nih.gov/">http://www.ncbi.nlm.nih.gov/</a>
Kyoto University Bioinformatics Center Japan	<a href="http://www.bic.kyoto-u.ac.jp/">http://www.bic.kyoto-u.ac.jp/</a>
UBC Bioinformatics Centre UBC Canada	<a href="http://bioinformatics.ubc.ca/">http://bioinformatics.ubc.ca/</a>
Bioinformatics.Org - The Open-Access Institute	<a href="http://bioinformatics.org/">http://bioinformatics.org/</a>
Weizmann Institute Bioinformatics and Biological Computing Israel	<a href="http://bip.weizmann.ac.il/index.html">http://bip.weizmann.ac.il/index.html</a>
Baylor College of Medicine HGSC	<a href="http://www.hgsc.bcm.tmc.edu/">http://www.hgsc.bcm.tmc.edu/</a>
San Diego Supercomputer Center Biological Projects CA USA	<a href="http://www.sdsc.edu/research/ResearchOverview.html">http://www.sdsc.edu/research/ResearchOverview.html</a>
J. Craig Venter Institute (ex TIGR) MD USA	<a href="http://www.jcvi.org/">http://www.jcvi.org/</a>
Whitehead Institute MIT MA USA	<a href="http://www.wi.mit.edu/">http://www.wi.mit.edu/</a>
Broad Institute Center for Genome Research	<a href="http://www.broadinstitute.org/">http://www.broadinstitute.org/</a>
Stanford Genomic Resources CA USA	<a href="http://lib.stanford.edu/stanford-genomic-resources">http://lib.stanford.edu/stanford-genomic-resources</a>
The Genomics and Bioinformatics Group National Cancer Institute USA	<a href="http://discover.nci.nih.gov/index.jsp">http://discover.nci.nih.gov/index.jsp</a>

**Systems Biology Germany**

Systems Biology in Germany	<a href="http://www.systembiologie.de/">http://www.systembiologie.de/</a>
FORSYS - Research Units for Systems Biology	<a href="http://www.forsys.net/joomla/">http://www.forsys.net/joomla/</a>
SysMo Systems Biology of Microorganisms	<a href="http://www.sysmo.net/">http://www.sysmo.net/</a>
HepatoSys - Network Systems Biology	<a href="http://www.hepatosys.de/">http://www.hepatosys.de/</a>
CSB - Center Systems Biology Stuttgart	<a href="http://www.centersysbio.uni-stuttgart.de/">http://www.centersysbio.uni-stuttgart.de/</a>
ZBSA - Center for Systems Biology Freiburg	<a href="http://www.zbsa.uni-freiburg.de/">http://www.zbsa.uni-freiburg.de/</a>
FRISYS Freiburg Initiative for Systems Biology	<a href="http://www.frisys.biologie.uni-freiburg.de/">http://www.frisys.biologie.uni-freiburg.de/</a>
FDM - Freiburg Center for Data Analysis and Modeling	<a href="http://www.fdm.uni-freiburg.de/">http://www.fdm.uni-freiburg.de/</a>
System Biology and Bioinformatics Wolkenhauer Univ. Rostock	<a href="http://www.sbi.uni-rostock.de/">http://www.sbi.uni-rostock.de/</a>
BIOMS - Center for Modelling and Simulation in the Biosciences Heidelberg	<a href="http://www.bioms.de/">http://www.bioms.de/</a>
Systems Biology at the IST and ISYS at University of Stuttgart	<a href="http://www.sysbio.de/">http://www.sysbio.de/</a>
MPI Dynamik komplexer Systeme - Magdeburg System Biology	<a href="http://www.mpi-magdeburg.mpg.de/research/groups/sb/">http://www.mpi-magdeburg.mpg.de/research/groups/sb/</a>
Magdeburg Centre for Systems Biology	<a href="http://www.mpi-magdeburg.mpg.de/MaCS">http://www.mpi-magdeburg.mpg.de/MaCS</a>
BioQuant Heidelberg	<a href="http://www.bioquant.uni-heidelberg.de/">http://www.bioquant.uni-heidelberg.de/</a>
ViroQuant Heidelberg	<a href="http://www.viroquant.uni-hd.de/">http://www.viroquant.uni-hd.de/</a>
EML Research gGmbH Heidelberg	<a href="http://www.eml-r.org/english/research/index.php">http://www.eml-r.org/english/research/index.php</a>
Theoretical Biophysics Humboldt University Berlin	<a href="http://www2.hu-berlin.de/biologie/theorybp/">http://www2.hu-berlin.de/biologie/theorybp/</a>
Bork Group at EMBL - Comparative Systems Analysis	<a href="http://www.bork.embl.de/">http://www.bork.embl.de/</a>

**Systems Biology Europe**

European Research Area for Systems Biology ERASysBio	<a href="http://www.erasysbio.net/Summary">http://www.erasysbio.net/Summary</a>
SystemsX - The Swiss Initiative in Systems Biology	<a href="http://www.systemsx.ch/">http://www.systemsx.ch/</a>
YSBN The Yeast Systems Biology Network	<a href="http://www.gmm.gu.se/Ysbn/">http://www.gmm.gu.se/Ysbn/</a>
SYSBIO Systems Biology and Bioinformatics Finland	<a href="http://www.aka.fi/sysbio">http://www.aka.fi/sysbio</a>
SCMBB Bruxelles	<a href="http://www.ucmbb.ulb.ac.be/">http://www.ucmbb.ulb.ac.be/</a>
Centre for Integrative Systems Biology London	<a href="http://www3.imperial.ac.uk/cisbic">http://www3.imperial.ac.uk/cisbic</a>
Manchester Centre for Integrative Systems Biology	<a href="http://www.mcisb.org/">http://www.mcisb.org/</a>
Warwick Systems Biology Centre (CSB)	<a href="http://www2.warwick.ac.uk/fac/sci/systemsbiology/">http://www2.warwick.ac.uk/fac/sci/systemsbiology/</a>
Systems Biology Ireland	<a href="http://www.ucd.ie/sbi/">http://www.ucd.ie/sbi/</a>
Netherlands Institute for Systems Biology (niSB)	<a href="http://www.sysbio.nl/">http://www.sysbio.nl/</a>
Systems Biology Net Spain	<a href="http://www.sysbiol.net/">http://www.sysbiol.net/</a>

**Systems Biology International**

The International Society for Systems Biology	<a href="http://issb.org/">http://issb.org/</a>
Systems Biology Portal <a href="http://www.systems-biology.org">www.systems-biology.org</a>	<a href="http://www.systems-biology.org/">http://www.systems-biology.org/</a>
US National Centers of System Biology	<a href="http://www.nigms.nih.gov/Initiatives/SysBio/Centers/">http://www.nigms.nih.gov/Initiatives/SysBio/Centers/</a>
Systems Biology at UC San Diego	<a href="http://systemsbiology.ucsd.edu/">http://systemsbiology.ucsd.edu/</a>
Department of Systems Biology Harvard Medical School Boston USA	<a href="http://sysbio.med.harvard.edu/">http://sysbio.med.harvard.edu/</a>
Institute for Systems Biology Seattle - USA	<a href="http://www.systemsbiology.org/">http://www.systemsbiology.org/</a>
Center for the Study of Biological Complexity Richmond USA	<a href="http://www.vcu.edu/csbc/">http://www.vcu.edu/csbc/</a>
Ottawa Institute of Systems Biology	<a href="http://intermed.med.uottawa.ca/Associations/OISB/index.htm">http://intermed.med.uottawa.ca/Associations/OISB/index.htm</a>
The Systems Biology Institute - Tokyo	<a href="http://sbi.jp/">http://sbi.jp/</a>
Institute for Advanced Biosciences Keio University	<a href="http://www.iab.keio.ac.jp/en/">http://www.iab.keio.ac.jp/en/</a>

## Organizations Conferences

Bioinformatik.de	<a href="http://www.bioinformatik.de">http://www.bioinformatik.de</a>
Bioinformatics.Org - The Open-Access Institute	<a href="http://bioinformatics.org/">http://bioinformatics.org/</a>
EMBNET Bioinformatics Network	<a href="http://www.embnet.org/">http://www.embnet.org/</a>
Gesellschaft fuer Informatik - Fachgruppe Bioinformatik	<a href="http://www.cebitec.uni-bielefeld.de/groups/fg402/">http://www.cebitec.uni-bielefeld.de/groups/fg402/</a>
GBM Gesellschaft fuer Biochemie und Molekularbiologie	<a href="http://www.gbm-online.de/">http://www.gbm-online.de/</a>
ISCB - International Society for Computational Biology	<a href="http://www.iscb.org/">http://www.iscb.org/</a>
GCB 2011 German Conference on Bioinformatics - Weihenstephan	<a href="http://www.gcb2011.de/">http://www.gcb2011.de/</a>
GCB 2010 German Conference on Bioinformatics - Braunschweig	<a href="http://www.gcb2010.de/">http://www.gcb2010.de/</a>
Bioinformatics Open Source Conference BOSC 2011 Vienna	<a href="http://www.open-bio.org/wiki/BOSC_2011">http://www.open-bio.org/wiki/BOSC_2011</a>
Bioinformatics Open Source Conference BOSC 2010 Boston	<a href="http://www.open-bio.org/wiki/BOSC_2010">http://www.open-bio.org/wiki/BOSC_2010</a>
ISMB ECCB 2011 Vienna	<a href="http://www.iscb.org/ismbeccb2011">http://www.iscb.org/ismbeccb2011</a>
7th International Workshop on Data Integration in the Life Sciences 2010	<a href="http://www.chalmers.se/cse/dils2010-en">http://www.chalmers.se/cse/dils2010-en</a>
12th International Conference on Systems Biology ICSB 2011, Heidelberg, Germany	<a href="http://www.icsb-2011.net/icsb-2011/">http://www.icsb-2011.net/icsb-2011/</a>
11th International Conference on Systems Biology ICSB 2010, Edinburgh, UK	<a href="http://www.icsb2010.org.uk">http://www.icsb2010.org.uk</a>
HUO 2011 10th World Congress Geneva	<a href="http://www.hupo2011.com/">http://www.hupo2011.com/</a>
HUPO 2010 9th World Congress Sydney	<a href="http://www.hupo2010.com/">http://www.hupo2010.com/</a>
18. Arbeitstagung Mikromethoden der Proteinchemie München 2011	<a href="http://www.arbeitstagung.de/">http://www.arbeitstagung.de/</a>
Synthetic Biology 5.0 Conference Stanford, CA, USA	<a href="http://sb5.biobricks.org/">http://sb5.biobricks.org/</a>

## Journals

Bioinformatics	<a href="http://bioinformatics.oxfordjournals.org/">http://bioinformatics.oxfordjournals.org/</a>
BioMed Central Bioinformatics	<a href="http://www.biomedcentral.com/bmcbioinformatics">http://www.biomedcentral.com/bmcbioinformatics</a>
AMB Algorithms for Molecular Biology	<a href="http://www.almob.org/">http://www.almob.org/</a>
BioData Mining	<a href="http://www.biodatamining.org/home/">http://www.biodatamining.org/home/</a>
Briefings in Bioinformatics	<a href="http://bib.oxfordjournals.org/">http://bib.oxfordjournals.org/</a>
Human Genomics	<a href="http://www.henrystewart.com/human_genomics/">http://www.henrystewart.com/human_genomics/</a>
In Silico Biology	<a href="http://www.bioinfo.de/isb/">http://www.bioinfo.de/isb/</a>
Journal of Computational Biology	<a href="http://www.liebertpub.com/publication.aspx?pub_id=31">http://www.liebertpub.com/publication.aspx?pub_id=31</a>
Journal of Medical Internet Research	<a href="http://www.jmir.org/">http://www.jmir.org/</a>
Nucleic Acids Research	<a href="http://www.oxfordjournals.org/nar/about.html">http://www.oxfordjournals.org/nar/about.html</a>
Omics: A Journal of Integrative Biology	<a href="http://www.liebertpub.com/publication.aspx?pub_id=43">http://www.liebertpub.com/publication.aspx?pub_id=43</a>
PLoS Computational Biology	<a href="http://compbiol.plosjournals.org/perlserv/?request=index-html&amp;issn=1553-7358">http://compbiol.plosjournals.org/perlserv/?request=index-html&amp;issn=1553-7358</a>
Nature Omics Gateway	<a href="http://www.nature.com/omics/index.html">http://www.nature.com/omics/index.html</a>
Proteomics	<a href="http://www.wiley-vch.de/publish/en/journals/alphabeticIndex/2120/">http://www.wiley-vch.de/publish/en/journals/alphabeticIndex/2120/</a>
Molecular and Cellular Proteomics	<a href="http://www.mcponline.org/">http://www.mcponline.org/</a>
Journal of Proteome Research	<a href="http://pubs.acs.org/journals/jprobs/">http://pubs.acs.org/journals/jprobs/</a>
Clinical Proteomics	<a href="http://www.springerlink.com/content/120552/">http://www.springerlink.com/content/120552/</a>
Proteomics - Clinical Applications	<a href="http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291862-8354">http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN%291862-8354</a>
Current Proteomics	<a href="http://www.bentham.org/cp/">http://www.bentham.org/cp/</a>
Journal of Proteomics and Bioinformatics	<a href="http://omicsonline.com/JPBhome.htm">http://omicsonline.com/JPBhome.htm</a>
Briefings in Functional Genomics and Proteomics	<a href="http://bfgp.oxfordjournals.org/">http://bfgp.oxfordjournals.org/</a>
Proteome Science	<a href="http://www.proteomesci.com/home/">http://www.proteomesci.com/home/</a>
Electrophoresis	<a href="http://www.wiley-vch.de/publish/en/journals/alphabeticIndex/2027/">http://www.wiley-vch.de/publish/en/journals/alphabeticIndex/2027/</a>
BioMed Central - Systems Biology Gateway	<a href="http://www.biomedcentral.com/gateways/systemsbiology">http://www.biomedcentral.com/gateways/systemsbiology</a>
BMC Systems Biology	<a href="http://www.biomedcentral.com/bmcsystbiol/">http://www.biomedcentral.com/bmcsystbiol/</a>
Molecular Systems Biology	<a href="http://www.nature.com/msb/index.html">http://www.nature.com/msb/index.html</a>
BioSystems	<a href="http://www.sciencedirect.com/science/journal/03032647">http://www.sciencedirect.com/science/journal/03032647</a>
IET Systems Biology	<a href="http://scitation.aip.org/IET-SYB">http://scitation.aip.org/IET-SYB</a>
IET Synthetic Biology	<a href="http://scitation.aip.org/IET-STB">http://scitation.aip.org/IET-STB</a>

## **Bioinformatics server**

EBI European Bioinformatics Institute	<a href="http://www.ebi.ac.uk/index.html">http://www.ebi.ac.uk/index.html</a>
NCBI US National Center for Biotechnology Information	<a href="http://www.ncbi.nlm.nih.gov/">http://www.ncbi.nlm.nih.gov/</a>
GenomeNet WWW server Japan	<a href="http://www.genome.jp/">http://www.genome.jp/</a>
Expasy Proteomics Server	<a href="http://www.expasy.org/">http://www.expasy.org/</a>
EMBNet - A Quick Guide to Expasy	<a href="http://www.embnnet.org/node/64">http://www.embnnet.org/node/64</a>
Pôle Bio-Informatique Lyonnais	<a href="http://pbil.univ-lyon1.fr/">http://pbil.univ-lyon1.fr/</a>
Weizmann Institute Bioinformatics and Biological Computing	<a href="http://bip.weizmann.ac.il/index.html">http://bip.weizmann.ac.il/index.html</a>
Baylor College of Medicine HGSC	<a href="http://www.hgsc.bcm.tmc.edu/">http://www.hgsc.bcm.tmc.edu/</a>
Bioinformatics Software Server Lille	<a href="http://bioinfo.lifl.fr/index.php">http://bioinfo.lifl.fr/index.php</a>
San Diego Supercomputer Center Biological Projects	<a href="http://www.sdsc.edu/research/ResearchOverview.html">http://www.sdsc.edu/research/ResearchOverview.html</a>
Bielefeld University Bioinformatics Server	<a href="http://bibiserv.techfak.uni-bielefeld.de/">http://bibiserv.techfak.uni-bielefeld.de/</a>
HUSAR Bioinformatics Lab - Biocomputing Services at DKFZ	<a href="http://genome.dkfz-heidelberg.de/">http://genome.dkfz-heidelberg.de/</a>
The Genomics and Bioinformatics Group NCI	<a href="http://discover.nci.nih.gov/index.jsp">http://discover.nci.nih.gov/index.jsp</a>

## **Databases**

### **Sequences**

Entrez Browser NCBI	<a href="http://www.ncbi.nlm.nih.gov/Entrez/">http://www.ncbi.nlm.nih.gov/Entrez/</a>
SRSWWW EMBL-EBI	<a href="http://srs.ebi.ac.uk/">http://srs.ebi.ac.uk/</a>
DBGET/LinkDB Integrated Database Retrieval System	<a href="http://www.genome.ad.jp/dbget/dbget2.html">http://www.genome.ad.jp/dbget/dbget2.html</a>
BCM Search Launcher	<a href="http://searchlauncher.bcm.tmc.edu/">http://searchlauncher.bcm.tmc.edu/</a>
GeneCards Weizmann	<a href="http://www.genecards.org/index.shtml">http://www.genecards.org/index.shtml</a>
Genome Matrix databases information integration	<a href="http://genomematrix.molgen.mpg.de/gm/index.html">http://genomematrix.molgen.mpg.de/gm/index.html</a>
RefSeq Reference Sequence NCBI	<a href="http://www.ncbi.nlm.nih.gov/RefSeq/">http://www.ncbi.nlm.nih.gov/RefSeq/</a>
Unigene NCBI	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=unigene">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=unigene</a>
Uniprot Universal Protein Resource Swiss-Prot/TREMBL/PIR	<a href="http://www.uniprot.org/">http://www.uniprot.org/</a>
EMBNet QuickGuide Swissprot Trembl Databases	<a href="http://www.embnnet.org/node/64">http://www.embnnet.org/node/64</a>
PIR - Protein Information Resource	<a href="http://pir.georgetown.edu/">http://pir.georgetown.edu/</a>
IPI - International Protein Index EBI	<a href="http://www.ebi.ac.uk/IPI/IPIhelp.html">http://www.ebi.ac.uk/IPI/IPIhelp.html</a>
Human Gene and Protein Database (HGPD)	<a href="http://riodb.ibase.aist.go.jp/hgpd/cgi-bin/index.cgi">http://riodb.ibase.aist.go.jp/hgpd/cgi-bin/index.cgi</a>
Protein Identifier Cross-Reference Service	<a href="http://www.ebi.ac.uk/Tools/picr/">http://www.ebi.ac.uk/Tools/picr/</a>
NCBI UniVec and VecScreen Vector contamination search	<a href="http://www.ncbi.nlm.nih.gov/VecScreen/UniVec.html">http://www.ncbi.nlm.nih.gov/VecScreen/UniVec.html</a>
Public SRS installations   Biowisdom	<a href="http://downloads.biowisdomsrs.com/publicsrs.html">http://downloads.biowisdomsrs.com/publicsrs.html</a>

### **Genomes**

Ensembl Genome Browser	<a href="http://www.ensembl.org/">http://www.ensembl.org/</a>
Entrez-Genome NCBI	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Genome">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Genome</a>
Integr8 Proteome Analysis at EBI	<a href="http://www.ebi.ac.uk/integr8/">http://www.ebi.ac.uk/integr8/</a>
GOLD: Genomes On Line Database v 3.0	<a href="http://www.genomesonline.org/">http://www.genomesonline.org/</a>
CBS Genome atlas database	<a href="http://www.cbs.dtu.dk/services/GenomeAtlas/">http://www.cbs.dtu.dk/services/GenomeAtlas/</a>
MIPS: Munich Information Centre for Protein Sequences	<a href="http://www.helmholtz-muenchen.de/en/ibis">http://www.helmholtz-muenchen.de/en/ibis</a>
J. Craig Venter Institute (ex TIGR) MD USA	<a href="http://www.jcvi.org/">http://www.jcvi.org/</a>
The Sanger Centre	<a href="http://www.sanger.ac.uk/">http://www.sanger.ac.uk/</a>
Whitehead Institute	<a href="http://www.wi.mit.edu/">http://www.wi.mit.edu/</a>
Broad Institute Center for Genome Research	<a href="http://www.broadinstitute.org/">http://www.broadinstitute.org/</a>
GeneCards Weizmann	<a href="http://bioinformatics.weizmann.ac.il/cards/">http://bioinformatics.weizmann.ac.il/cards/</a>
HGP - Human genome project information	<a href="http://www.ornl.gov/sci/techresources/Human_Genome/home.shtml">http://www.ornl.gov/sci/techresources/Human_Genome/home.shtml</a>
Human Genome Resources NCBI	<a href="http://www.ncbi.nlm.nih.gov/genome/guide/human/">http://www.ncbi.nlm.nih.gov/genome/guide/human/</a>
Mouse Genome Resources NCBI	<a href="http://www.ncbi.nlm.nih.gov/genome/guide/mouse/">http://www.ncbi.nlm.nih.gov/genome/guide/mouse/</a>
Rat Genome resources NCBI	<a href="http://www.ncbi.nlm.nih.gov/genome/guide/rat/">http://www.ncbi.nlm.nih.gov/genome/guide/rat/</a>
Fugu Fish Genome Project	<a href="http://www.fugu-sg.org/project/info.html">http://www.fugu-sg.org/project/info.html</a>
ZFIN - Zebrafish information network	<a href="http://zfin.org/">http://zfin.org/</a>
Wormbase C. elegans	<a href="http://www.wormbase.org/">http://www.wormbase.org/</a>
C.elegans Blast server (Sanger Centre)	<a href="http://www.sanger.ac.uk/cgi-bin/blast/submitblast/c_elegans">http://www.sanger.ac.uk/cgi-bin/blast/submitblast/c_elegans</a>
FlyBase Drosophila	<a href="http://flybase.net/">http://flybase.net/</a>
Yeast Genome Database MIPS	<a href="http://mips.helmholtz-muenchen.de/genre/proj/yeast/index.jsp">http://mips.helmholtz-muenchen.de/genre/proj/yeast/index.jsp</a>
Schizosaccharomyces pombe genome (Sanger Centre)	<a href="http://www.sanger.ac.uk/Projects/S_pombe/">http://www.sanger.ac.uk/Projects/S_pombe/</a>

Neurospora crassa Database (Broad)	<a href="http://www.broadinstitute.org/annotation/genome/neurospora/MultiHome.html">http://www.broadinstitute.org/annotation/genome/neurospora/MultiHome.html</a>
Neurospora crassa Database (MIPS)	<a href="http://mips.helmholtz-muenchen.de/genre/proj/ncrassa/">http://mips.helmholtz-muenchen.de/genre/proj/ncrassa/</a>
Fungal Genetics Stock Center	<a href="http://www.fgsc.net/">http://www.fgsc.net/</a>
tair - The Arabidopsis Information Resource	<a href="http://www.arabidopsis.org/">http://www.arabidopsis.org/</a>
GABI Primary Database ( GabiPD ) - Genomanalyse Pflanze	<a href="http://gabi.rzpd.de/">http://gabi.rzpd.de/</a>
Plant genomes (MIPS)	<a href="http://www.helmholtz-muenchen.de/index.php?id=3946">http://www.helmholtz-muenchen.de/index.php?id=3946</a>
Maize Genetics and Genomic Database	<a href="http://www.maizegdb.org/">http://www.maizegdb.org/</a>
International Rice Genome Sequencing Project	<a href="http://rgp.dna.affrc.go.jp/E/IRGSP/">http://rgp.dna.affrc.go.jp/E/IRGSP/</a>
Potato Genome Sequencing Consortium	<a href="http://www.potatogenome.net/">http://www.potatogenome.net/</a>

#### Protein structures

<a href="http://www.rcsb.org/pdb/">RCSB Protein Data Bank</a>	<a href="http://www.rcsb.org/pdb/">http://www.rcsb.org/pdb/</a>
Entrez-Structure	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Structure">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Structure</a>
Conserved Domains Database NCBI	<a href="http://www.ncbi.nlm.nih.gov/sites/entrez?db=cdd">http://www.ncbi.nlm.nih.gov/sites/entrez?db=cdd</a>
<a href="http://www.ebi.ac.uk/pdbe/">Protein Databank in Europe (PDBe)</a>	<a href="http://www.ebi.ac.uk/pdbe/">http://www.ebi.ac.uk/pdbe/</a>
Structures by electron microscopy at MSD	<a href="http://www.ebi.ac.uk/msd-srv/emsearch/index.html">http://www.ebi.ac.uk/msd-srv/emsearch/index.html</a>
<a href="http://swissmodel.expasy.org/SWISS-MODEL.html">SWISS-MODEL</a>	<a href="http://swissmodel.expasy.org/SWISS-MODEL.html">http://swissmodel.expasy.org/SWISS-MODEL.html</a>
EMBNET - A Quick Guide to Swiss-Model	<a href="http://www.embnnet.org/node/64">http://www.embnnet.org/node/64</a>
<a href="http://scop.mrc-lmb.cam.ac.uk/scop/">SCOP: Structural Classification of Proteins</a>	<a href="http://scop.mrc-lmb.cam.ac.uk/scop/">http://scop.mrc-lmb.cam.ac.uk/scop/</a>
Superfamily HMM models SCOP	<a href="http://supfam.mrc-lmb.cam.ac.uk/SUPERFAMILY/">http://supfam.mrc-lmb.cam.ac.uk/SUPERFAMILY/</a>
<a href="http://www.cathdb.info/index.html">CATH database of structural domains</a>	<a href="http://www.cathdb.info/index.html">http://www.cathdb.info/index.html</a>
Gene3D Structural and Functional Annotation	<a href="http://gene3d.biochem.ucl.ac.uk/Gene3D/">http://gene3d.biochem.ucl.ac.uk/Gene3D/</a>
The DALI database	<a href="http://ekhidna.biocenter.helsinki.fi/dali/start">http://ekhidna.biocenter.helsinki.fi/dali/start</a>
NCBI VAST structural alignments	<a href="http://www.ncbi.nlm.nih.gov/Structure/VAST/vast.shtml">http://www.ncbi.nlm.nih.gov/Structure/VAST/vast.shtml</a>
ModBase - Comparative protein structure models	<a href="http://modbase.compbio.ucsf.edu/modbase/cgi/index.cgi">http://modbase.compbio.ucsf.edu/modbase/cgi/index.cgi</a>
BALL and BALLView Visualization and Modelling Tools	<a href="http://www.ball-project.org/">http://www.ball-project.org/</a>

#### Motifs Profiles Domains

<a href="http://www.ebi.ac.uk/interpro/">Interpro Domain and Profile Database</a>	<a href="http://www.ebi.ac.uk/interpro/">http://www.ebi.ac.uk/interpro/</a>
<a href="http://www.expasy.org/prosite/">ExPASy - PROSITE</a>	<a href="http://www.expasy.org/prosite/">http://www.expasy.org/prosite/</a>
ExPASy - ScanProsite tool	<a href="http://www.expasy.org/tools/scanprosite/">http://www.expasy.org/tools/scanprosite/</a>
SIB myHits motif scan	<a href="http://hits.isb-sib.ch/cgi-bin/motif_scan">http://hits.isb-sib.ch/cgi-bin/motif_scan</a>
PRINTS protein fingerprints	<a href="http://www.bioinf.man.ac.uk/dbbrowser/PRINTS/">http://www.bioinf.man.ac.uk/dbbrowser/PRINTS/</a>
SMART - Simple Modular Architecture Research Tool	<a href="http://smart.embl-heidelberg.de/">http://smart.embl-heidelberg.de/</a>
Blocks WWW Server	<a href="http://blocks.fhcr.org/blocks/">http://blocks.fhcr.org/blocks/</a>
Block Search	<a href="http://blocks.fhcr.org/blocks/blocks_search.html">http://blocks.fhcr.org/blocks/blocks_search.html</a>
<a href="http://pfam.sanger.ac.uk/">The Sanger Centre Pfam Server</a>	<a href="http://pfam.sanger.ac.uk/">http://pfam.sanger.ac.uk/</a>
The Sanger Centre HMM Pfam Searcher	<a href="http://pfam.sanger.ac.uk/search?tab=searchSequenceBlock">http://pfam.sanger.ac.uk/search?tab=searchSequenceBlock</a>
TIGRFAMs protein families HMM	<a href="http://www.jcvi.org/cms/research/projects/tigrfams/overview/">http://www.jcvi.org/cms/research/projects/tigrfams/overview/</a>
ProDom conserved protein domains	<a href="http://prodom.prabi.fr/prodom/current/html/home.php">http://prodom.prabi.fr/prodom/current/html/home.php</a>
CDD Conserved domains database NCBI	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=cdd">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=cdd</a>
DomCut prediction of linker regions between functional domains	<a href="http://www.bork.embl-heidelberg.de/~suyama/domcut/">http://www.bork.embl-heidelberg.de/~suyama/domcut/</a>
PANTHER (Protein ANalysis THrough Evolutionary Relationships) Classification System	<a href="http://www.pantherdb.org/">http://www.pantherdb.org/</a>
PIR iProClass Protein Classification	<a href="http://pir.georgetown.edu/pirwww/dbinfo/iproclass.shtml">http://pir.georgetown.edu/pirwww/dbinfo/iproclass.shtml</a>
Superfamily HMM models SCOP	<a href="http://supfam.mrc-lmb.cam.ac.uk/SUPERFAMILY/">http://supfam.mrc-lmb.cam.ac.uk/SUPERFAMILY/</a>
Gene3D Structural and Functional Annotation	<a href="http://gene3d.biochem.ucl.ac.uk/Gene3D/">http://gene3d.biochem.ucl.ac.uk/Gene3D/</a>
ModBase - Comparative protein structure models	<a href="http://modbase.compbio.ucsf.edu/modbase/cgi/index.cgi">http://modbase.compbio.ucsf.edu/modbase/cgi/index.cgi</a>
Interproscan	<a href="http://www.ebi.ac.uk/Tools/webservices/services/interproscan">http://www.ebi.ac.uk/Tools/webservices/services/interproscan</a>
<a href="http://weblogo.berkeley.edu/">WebLogo</a>	<a href="http://weblogo.berkeley.edu/">http://weblogo.berkeley.edu/</a>
<a href="http://weblogo.berkeley.edu/logo.cgi">WebLogo Server</a>	<a href="http://weblogo.berkeley.edu/logo.cgi">http://weblogo.berkeley.edu/logo.cgi</a>
Human Protein Reference Database	<a href="http://www.hprd.org/">http://www.hprd.org/</a>
PhosphoMotif Finder	<a href="http://www.hprd.org/PhosphoMotif_finder">http://www.hprd.org/PhosphoMotif_finder</a>
ELM Eukaryotic Linear Motif Functional Site Prediction	<a href="http://elm.eu.org/">http://elm.eu.org/</a>
Phospho.ELM Database of phosphorylation sites	<a href="http://phospho.elm.eu.org/">http://phospho.elm.eu.org/</a>
NetworkKIN kinase substrate relationship prediction	<a href="http://networkkin.info/search.php">http://networkkin.info/search.php</a>
DIALIGN - multiple sequence alignments to find conserved regulatory elements	<a href="http://bibiserv.techfak.uni-bielefeld.de/dialign/">http://bibiserv.techfak.uni-bielefeld.de/dialign/</a>
The Gibbs Motif Sampler	<a href="http://bayesweb.wadsworth.org/gibbs/gibbs.html">http://bayesweb.wadsworth.org/gibbs/gibbs.html</a>
MEME MAST motif discovery and search	<a href="http://meme.sdsc.edu/meme/intro.html">http://meme.sdsc.edu/meme/intro.html</a>

## Pathways

KEGG: Kyoto Encyclopedia of Genes and Genomes	<a href="http://www.genome.ad.jp/kegg/">http://www.genome.ad.jp/kegg/</a>
ExPASy - Biochemical Pathways	<a href="http://192.33.215.47/tools/pathways/">http://192.33.215.47/tools/pathways/</a>
NCI BioCarta - Pathways	<a href="http://cgap.nci.nih.gov/Pathways/BioCarta_Pathways">http://cgap.nci.nih.gov/Pathways/BioCarta_Pathways</a>
PANTHER (Protein ANalysis THrough Evolutionary Relationships) Classification System	<a href="http://www.pantherdb.org/">http://www.pantherdb.org/</a>
Signaling Gateway - Cell Signaling Resource Nature	<a href="http://www.signaling-gateway.org/">http://www.signaling-gateway.org/</a>
Reactome Project	<a href="http://www.reactome.org/">http://www.reactome.org/</a>
BioCyc Database Collection	<a href="http://www.biocyc.org/">http://www.biocyc.org/</a>
MetaCyc Encyclopedia of Metabolic Pathways	<a href="http://metacyc.org/">http://metacyc.org/</a>
NCI Nature Pathway Interaction Database	<a href="http://pid.nci.nih.gov/">http://pid.nci.nih.gov/</a>
IUPHAR receptor database	<a href="http://www.iuphar-db.org/">http://www.iuphar-db.org/</a>
LGICD Ligand-gated ion-channel database	<a href="http://www.ebi.ac.uk/compneur-srv/LGICdb/LGICdb.php">http://www.ebi.ac.uk/compneur-srv/LGICdb/LGICdb.php</a>
AraCyc - Pathway Database of Arabidopsis thaliana	<a href="http://www.arabidopsis.org/biocyc/">http://www.arabidopsis.org/biocyc/</a>
Invitrogen Pathways	<a href="http://www.invitrogen.com/site/us/en/home/LINNEA-Online-Guides/LINNEA-Pathways.html">http://www.invitrogen.com/site/us/en/home/LINNEA-Online-Guides/LINNEA-Pathways.html</a>
NetPath human signal transduction pathways	<a href="http://www.netpath.org/">http://www.netpath.org/</a>
BBID-Biological Biochemical Image Database	<a href="http://bbid.grc.nia.nih.gov/">http://bbid.grc.nia.nih.gov/</a>
Signal Transduction - Biochemweb.org virtual library	<a href="http://www.biochemweb.org/signaling.shtml">http://www.biochemweb.org/signaling.shtml</a>
BioPAX - data exchange for biological pathway data	<a href="http://www.biopax.org/">http://www.biopax.org/</a>
visANT - Visual Analysis Tool for Biological Networks and Pathways	<a href="http://visant.bu.edu/">http://visant.bu.edu/</a>
MapMan - integrative view of microarray data and metabolic maps	<a href="http://gabi.rzpd.de/projects/MapMan/">http://gabi.rzpd.de/projects/MapMan/</a>
GenMAPP Gene Map Annotator and Pathway Profiler	<a href="http://www.genmapp.org/">http://www.genmapp.org/</a>
Biological Networks	<a href="http://biologicalnetworks.net/index.php">http://biologicalnetworks.net/index.php</a>
Comparative Pathway Analyzer	<a href="https://www.cebitec.uni-bielefeld.de/groups/brf/software/cpa/index.html">https://www.cebitec.uni-bielefeld.de/groups/brf/software/cpa/index.html</a>
PaLS Pathway and Literature Strainer (gene set annotation tool)	<a href="http://pals.bioinfo.cnio.es/">http://pals.bioinfo.cnio.es/</a>
ProdoNet Prokaryotic gene list pathway annotator	<a href="http://www.prodonet.tu-bs.de/">http://www.prodonet.tu-bs.de/</a>
GraphWeb: analysis of biological networks	<a href="http://biit.cs.ut.ee/graphweb/">http://biit.cs.ut.ee/graphweb/</a>
Network Analysis Tools (NeAT)	<a href="http://rsat.ulb.ac.be/rsat/index_neat.html">http://rsat.ulb.ac.be/rsat/index_neat.html</a>

## Enzymes

Enzyme Database - BRENDA	<a href="http://www.brenda-enzymes.info/">http://www.brenda-enzymes.info/</a>
IntEnz EBI Enzyme Database	<a href="http://www.ebi.ac.uk/intenz/">http://www.ebi.ac.uk/intenz/</a>
Catalytic Site Atlas - CSA (EBI)	<a href="http://www.ebi.ac.uk/thornton-srv/databases/CSA/">http://www.ebi.ac.uk/thornton-srv/databases/CSA/</a>
REBASE The Restriction Enzyme Database	<a href="http://rebase.neb.com/rebase/rebase.html">http://rebase.neb.com/rebase/rebase.html</a>
Protein Kinase Resource	<a href="http://www.nih.gov/mirror/Kinases/">http://www.nih.gov/mirror/Kinases/</a>
Kinase.com Global kinome analysis	<a href="http://www.kinase.com/">http://www.kinase.com/</a>
NetworkKIN kinase substrate relationship prediction	<a href="http://networkkin.info/search.php">http://networkkin.info/search.php</a>

## Software

EBI: The BioCatalogue	<a href="http://www.biocatalogue.org/">http://www.biocatalogue.org/</a>
Open Source Initiative OSI	<a href="http://www.opensource.org/">http://www.opensource.org/</a>
Open Bioinformatics Foundation	<a href="http://www.open-bio.org/wiki/Main_Page">http://www.open-bio.org/wiki/Main_Page</a>
SourceForge.net Open Source Resource	<a href="http://sourceforge.net/">http://sourceforge.net/</a>
Bioinformatics.Org - The Open-Access Institute	<a href="http://bioinformatics.org/">http://bioinformatics.org/</a>
BioPerl	<a href="http://bio.perl.org/">http://bio.perl.org/</a>
BioPython	<a href="http://biopython.org/wiki/Main_Page">http://biopython.org/wiki/Main_Page</a>
BioJava	<a href="http://biojava.org/wiki/Main_Page">http://biojava.org/wiki/Main_Page</a>
BioRuby	<a href="http://bioruby.org/">http://bioruby.org/</a>
BioBike (LISP)	<a href="http://nostoc.stanford.edu/Docs/">http://nostoc.stanford.edu/Docs/</a>

**Literature**

Pub Med Central	<a href="http://www.pubmedcentral.nih.gov/">http://www.pubmedcentral.nih.gov/</a>
Advanced PubMed Search	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed</a>
PubMed/Medline NLM Mesh Browser	<a href="http://www.nlm.nih.gov/mesh/MBrowser.html">http://www.nlm.nih.gov/mesh/MBrowser.html</a>
PubMed Single Citation Matcher	<a href="http://www.ncbi.nlm.nih.gov/pubmed/citmatch">http://www.ncbi.nlm.nih.gov/pubmed/citmatch</a>
NCBI Journal database	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=journals&amp;term=">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=journals&amp;term=</a>
List of Journals Indexed for Medline	<a href="http://www.nlm.nih.gov/tsd/serials/ji.html">http://www.nlm.nih.gov/tsd/serials/ji.html</a>
Scopus	<a href="http://www.scopus.com/scopus/home.url">http://www.scopus.com/scopus/home.url</a>
Web of Science	<a href="http://scientific.thomson.com/products/wos/">http://scientific.thomson.com/products/wos/</a>
Google Scholar	<a href="http://scholar.google.com/">http://scholar.google.com/</a>
CiteSeer (Computer and Information Sciences)	<a href="http://citeseer.ist.psu.edu/">http://citeseer.ist.psu.edu/</a>
Scirus	<a href="http://www.scirus.com/srsapp/">http://www.scirus.com/srsapp/</a>
Espacenet - Europe's network of patent databases	<a href="http://worldwide.espacenet.com/">http://worldwide.espacenet.com/</a>
REDI Databases of Baden-Wuerttemberg	<a href="http://www-fr.redi-bw.de/">http://www-fr.redi-bw.de/</a>
BIOSIS Previews	<a href="http://scientific.thomson.com/products/bp/">http://scientific.thomson.com/products/bp/</a>
Medline	<a href="http://www.proquest.com/en-US/catalogs/databases/detail/medline_ft.shtml">http://www.proquest.com/en-US/catalogs/databases/detail/medline_ft.shtml</a>
OVID - Journals	<a href="http://www.ovid.com/site/catalog/journals_landing.jsp">http://www.ovid.com/site/catalog/journals_landing.jsp</a>
DOAJ - Directory of open access journals	<a href="http://www.doaj.org/">http://www.doaj.org/</a>
PLoS Public Library of Science	<a href="http://www.plos.org/">http://www.plos.org/</a>
HighWire Press - Stanford University free full papers	<a href="http://highwire.stanford.edu/">http://highwire.stanford.edu/</a>
WorldSciNet Search Engine - World Scientific	<a href="http://www.worldscinet.com/">http://www.worldscinet.com/</a>
JSTOR - The Scholarly Journal Archive	<a href="http://www.jstor.org/">http://www.jstor.org/</a>
Electronic Journals Library	<a href="http://rzbx1.uni-regensburg.de/ezeit/">http://rzbx1.uni-regensburg.de/ezeit/</a>
Subito - German libraries combined paper delivery service	<a href="http://www.subito-doc.com/">http://www.subito-doc.com/</a>
Crossref Search - commercial publishers worldwide common paper service	<a href="http://www.crossref.org/">http://www.crossref.org/</a>
Wiley Interscience	<a href="http://www3.interscience.wiley.com/">http://www3.interscience.wiley.com/</a>
Springer Link	<a href="http://www.springerlink.com/">http://www.springerlink.com/</a>
IngentaConnect	<a href="http://www.ingentaconnect.com/">http://www.ingentaconnect.com/</a>

**Literature and Data Mining****Compendia**

Arrowsmith text mining tool compendium	<a href="http://arrowsmith.psych.uic.edu/arrowsmith_uic/tools.html">http://arrowsmith.psych.uic.edu/arrowsmith_uic/tools.html</a>
Literature mining for the biologist - Review	<a href="http://www.nature.com/nrg/journal/v7/n2/abs/nrg1768.html">http://www.nature.com/nrg/journal/v7/n2/abs/nrg1768.html</a>
Linking publication, gene and protein data - Review	<a href="http://www.ncbi.nlm.nih.gov/pubmed/17060904">http://www.ncbi.nlm.nih.gov/pubmed/17060904</a>
Biomedical language processing - What is beyond PubMed - Review	<a href="http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1702322/?tool=pubmed">http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1702322/?tool=pubmed</a>
Text-mining and information-retrieval services for molecular biology - Review	<a href="http://genomebiology.com/2005/6/7/224/abstract">http://genomebiology.com/2005/6/7/224/abstract</a>
Text mining in Biology - Martin Krallinger	<a href="http://www.pdg.cnb.uam.es/martink/">http://www.pdg.cnb.uam.es/martink/</a>
PDG Course Text mining in Biomedical Literature March 2006	<a href="http://www.pdg.cnb.uam.es/martink/LINKS/tm_master_barcode2006.html">http://www.pdg.cnb.uam.es/martink/LINKS/tm_master_barcode2006.html</a>
BioCreative Text mining challenge	<a href="http://www.biocreative.org/">http://www.biocreative.org/</a>
TREC Genomics Track data mining competition	<a href="http://ir.ohsu.edu/genomics/">http://ir.ohsu.edu/genomics/</a>
BioNLP information portal	<a href="http://www.bionlp.org/">http://www.bionlp.org/</a>
BLIMP Biomedical Literature Mining Publications	<a href="http://blimp.cs.queensu.ca/other_links.html">http://blimp.cs.queensu.ca/other_links.html</a>

**Information retrieval and clustering**

EBIMed Medline information retrieval and extraction	<a href="http://www.ebi.ac.uk/Rebholz-srv/ebimed/index.jsp">http://www.ebi.ac.uk/Rebholz-srv/ebimed/index.jsp</a>
GoPubMed - Ontology based literature search	<a href="http://www.gopubmed.org/">http://www.gopubmed.org/</a>
PubMed pubmed rewired	<a href="http://www.hubmed.org/">http://www.hubmed.org/</a>
MyNCBI PubMed updating and alerting	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?DB=pubmed">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?DB=pubmed</a>
PubCrawler PubMed GenBank Update Service	<a href="http://pubcrawler.gen.tcd.ie/">http://pubcrawler.gen.tcd.ie/</a>
eTBlast - related articles to any text	<a href="http://etest.vbi.vt.edu/etblast3/">http://etest.vbi.vt.edu/etblast3/</a>
CoPub Mapper Gene Co-Publication Text Mining	<a href="http://copub.gatcplatform.nl/">http://copub.gatcplatform.nl/</a>
PubMatrix	<a href="http://pubmatrix.grc.nia.nih.gov/">http://pubmatrix.grc.nia.nih.gov/</a>
NCBI Esearch Entrez Utility	<a href="http://www.ncbi.nlm.nih.gov/entrez/query/static/eseach_help.html">http://www.ncbi.nlm.nih.gov/entrez/query/static/eseach_help.html</a>

**Information Extraction and Mining**

The Arrowsmith Project	<a href="http://arrowsmith.psych.uic.edu/arrowsmith_uic/index.html">http://arrowsmith.psych.uic.edu/arrowsmith_uic/index.html</a>
BioIE - Extracting informative sentences	<a href="http://www.bioinf.manchester.ac.uk/dbbrowser/bioie/">http://www.bioinf.manchester.ac.uk/dbbrowser/bioie/</a>
Chilibot - Mining PubMed for relationships	<a href="http://www.chilibot.net/">http://www.chilibot.net/</a>
Textpresso	<a href="http://www.textpresso.org/">http://www.textpresso.org/</a>
PubGene	<a href="http://www.pubgene.org/">http://www.pubgene.org/</a>
XplorMed: eXploring Medline abstracts	<a href="http://www.ogic.ca/projects/xplormed/">http://www.ogic.ca/projects/xplormed/</a>
iProLink integrated Protein Literature INformation and Knowledge	<a href="http://pir.georgetown.edu/pirwww/iprolink/iprolink.shtml">http://pir.georgetown.edu/pirwww/iprolink/iprolink.shtml</a>
RLIMS-P Rule-based Literature Mining System for Protein Phosphorylation	<a href="http://pir.georgetown.edu/iprolink/rlimsp/">http://pir.georgetown.edu/iprolink/rlimsp/</a>
iHOP - Information Hyperlinked over Proteins	<a href="http://www.ihop-net.org/UniPub/iHOP/">http://www.ihop-net.org/UniPub/iHOP/</a>
String: functional protein association networks	<a href="http://string.embl.de/">http://string.embl.de/</a>
BITOLA - Biomedical Discovery Support System	<a href="http://www.mf.uni-lj.si/bitola/">http://www.mf.uni-lj.si/bitola/</a>
ONDEX - Data integration and visualisation	<a href="http://www.ondex.org/">http://www.ondex.org/</a>

**Text entity recognition tools**

AliasServer Protein synonym search	<a href="http://cbi.labri.fr/outils/alias/index.php">http://cbi.labri.fr/outils/alias/index.php</a>
ARGH Biomedical Acronym Database	<a href="http://etblast.vbi.vt.edu/argh/index.shtml">http://etblast.vbi.vt.edu/argh/index.shtml</a>
Text2Knowledge - Acronym, Gene Name, Synonym, Interaction Database	<a href="http://bioinformatics.org/textknowledge/">http://bioinformatics.org/textknowledge/</a>
ABNER: A Biomedical Named Entity Recognizer	<a href="http://www.cs.wisc.edu/~bsettles/abner/">http://www.cs.wisc.edu/~bsettles/abner/</a>

**Literature mining software**

RefViz	<a href="http://www.refviz.com/">http://www.refviz.com/</a>
QUOSA Information Manager	<a href="http://www.quosa.com/">http://www.quosa.com/</a>
TRANSINSIGHT	<a href="http://www.transinsight.com/">http://www.transinsight.com/</a>
InforSense	<a href="http://www.inforsense.com/">http://www.inforsense.com/</a>
BioLT Literature Mining Tool (Biomax Informatics AG)	<a href="http://www.biomax.com/products/biolit.php">http://www.biomax.com/products/biolit.php</a>
FTI Technology e-discovery	<a href="http://www.ftitechnology.com/">http://www.ftitechnology.com/</a>
KNIME - Konstanz Information Miner	<a href="http://www.knime.org/">http://www.knime.org/</a>
Ariadne Genomics MEDSCAN	<a href="http://www.ariadnegenomics.com/">http://www.ariadnegenomics.com/</a>
BITOLA - Biomedical Discovery Support System	<a href="http://www.mf.uni-lj.si/bitola/">http://www.mf.uni-lj.si/bitola/</a>
ONDEX - Data integration and visualisation	<a href="http://www.ondex.org/">http://www.ondex.org/</a>
HyBrow hypothesis testing software	<a href="http://www.hybrow.org/">http://www.hybrow.org/</a>
R Text Mining Package	<a href="http://cran.r-project.org/web/packages/tm/index.html">http://cran.r-project.org/web/packages/tm/index.html</a>

### Alignment and database searches

<a href="http://www.ncbi.nlm.nih.gov/BLAST/">WWW BLAST Database Searches at NCBI</a>	<a href="http://www.ncbi.nlm.nih.gov/BLAST/">http://www.ncbi.nlm.nih.gov/BLAST/</a>
<a href="http://www.embnet.org/node/64">EMBNET QuickGuide BLAST</a>	<a href="http://www.embnet.org/node/64">http://www.embnet.org/node/64</a>
<a href="http://www.ebi.ac.uk/fasta33/">Fasta3 Database Searches at the EBI</a>	<a href="http://www.ebi.ac.uk/fasta33/">http://www.ebi.ac.uk/fasta33/</a>
<a href="http://www.ebi.ac.uk/Tools/sss/">Sequence similarity searches at the EBI</a>	<a href="http://www.ebi.ac.uk/Tools/sss/">http://www.ebi.ac.uk/Tools/sss/</a>
<a href="http://www.ebi.ac.uk/MPsrch/">MPsrch at EBI</a>	<a href="http://www.ebi.ac.uk/MPsrch/">http://www.ebi.ac.uk/MPsrch/</a>
<a href="http://searchlauncher.bcm.tmc.edu/multi-align/multi-align.html">BCM Search Launcher: Multiple Sequence Alignments</a>	<a href="http://searchlauncher.bcm.tmc.edu/multi-align/multi-align.html">http://searchlauncher.bcm.tmc.edu/multi-align/multi-align.html</a>
<a href="http://bioinformatics.org/pecop/">PeCoP Psi-Blast to find persistently conserved positions</a>	<a href="http://bioinformatics.org/pecop/">http://bioinformatics.org/pecop/</a>
<a href="http://imed.med.ucm.es/PVS/">PVS: Protein Variability Server - conserved epitope discovery</a>	<a href="http://imed.med.ucm.es/PVS/">http://imed.med.ucm.es/PVS/</a>
<a href="http://sonnhammer.sbc.su.se/Dotter.html">Dotter dot-matrix sequence comparison program</a>	<a href="http://sonnhammer.sbc.su.se/Dotter.html">http://sonnhammer.sbc.su.se/Dotter.html</a>
<a href="http://bips.u-strasbg.fr/fr/Documentation/ClustalX/">ClustalX</a>	<a href="http://bips.u-strasbg.fr/fr/Documentation/ClustalX/">http://bips.u-strasbg.fr/fr/Documentation/ClustalX/</a>
<a href="http://www.ebi.ac.uk/Tools/t-coffee/index.html">Tcoffee DNA, RNA, Protein alignment tools</a>	<a href="http://www.ebi.ac.uk/Tools/t-coffee/index.html">http://www.ebi.ac.uk/Tools/t-coffee/index.html</a>
<a href="http://bioinfo.lifl.fr/mreps/index.php">mreps DNA tandem repeat identifier</a>	<a href="http://bioinfo.lifl.fr/mreps/index.php">http://bioinfo.lifl.fr/mreps/index.php</a>
<a href="http://bioinfo.lifl.fr/yass/index.php">YASS genomic DNA local alignment similarity search tool</a>	<a href="http://bioinfo.lifl.fr/yass/index.php">http://bioinfo.lifl.fr/yass/index.php</a>
<a href="ftp://ftp.ncbi.nlm.nih.gov/blast/executables/LATEST/">Standalone BLAST</a>	<a href="ftp://ftp.ncbi.nlm.nih.gov/blast/executables/LATEST/">ftp://ftp.ncbi.nlm.nih.gov/blast/executables/LATEST/</a>
<a href="http://www.ncbi.nlm.nih.gov/staff/tao/URLAPI/pc_setup.html">BLAST standalone setup for Windows PC</a>	<a href="http://www.ncbi.nlm.nih.gov/staff/tao/URLAPI/pc_setup.html">http://www.ncbi.nlm.nih.gov/staff/tao/URLAPI/pc_setup.html</a>
<a href="http://3d-alignment.eu/">STRAP Interactive Structure based Alignment Program</a>	<a href="http://3d-alignment.eu/">http://3d-alignment.eu/</a>
<a href="http://www.nrbcs.org/downloads/">GeneDoc Homepage</a>	<a href="http://www.nrbcs.org/downloads/">http://www.nrbcs.org/downloads/</a>
<a href="http://www.jalview.org/">Jalview - Java alignment editor</a>	<a href="http://www.jalview.org/">http://www.jalview.org/</a>
<a href="http://www.mbio.ncsu.edu/BioEdit/BioEdit.html">BioEdit Sequence Alignment Editor for Windows 95/98/NT/XP</a>	<a href="http://www.mbio.ncsu.edu/BioEdit/BioEdit.html">http://www.mbio.ncsu.edu/BioEdit/BioEdit.html</a>

### Sequence tools

<a href="http://main.g2.bx.psu.edu/">Galaxy bioinformatics framework</a>	<a href="http://main.g2.bx.psu.edu/">http://main.g2.bx.psu.edu/</a>
<a href="http://ugene.unipro.ru/">Unipro UGENE: Integrated Bioinformatics Tools</a>	<a href="http://ugene.unipro.ru/">http://ugene.unipro.ru/</a>
<a href="http://searchlauncher.bcm.tmc.edu/seq-util/seq-util.html">BCM Sequence Utilities</a>	<a href="http://searchlauncher.bcm.tmc.edu/seq-util/seq-util.html">http://searchlauncher.bcm.tmc.edu/seq-util/seq-util.html</a>
<a href="http://bioinformatics.org/sewer/">SeWeR - Sequence Analysis using Web Resources</a>	<a href="http://bioinformatics.org/sewer/">http://bioinformatics.org/sewer/</a>
<a href="http://bioinformatics.org/sms2/">Sequence Manipulation Suite 2</a>	<a href="http://bioinformatics.org/sms2/">http://bioinformatics.org/sms2/</a>
<a href="http://bioinformatics.org/seqext/">Sequence Extractor cloning toolbox</a>	<a href="http://bioinformatics.org/seqext/">http://bioinformatics.org/seqext/</a>
<a href="http://searchlauncher.bcm.tmc.edu/seq-util/Options/readseq.html">ReadSeq</a>	<a href="http://searchlauncher.bcm.tmc.edu/seq-util/Options/readseq.html">http://searchlauncher.bcm.tmc.edu/seq-util/Options/readseq.html</a>
<a href="http://www.firstmarket.com/cutter/cut2.html">Webcutter 2.0</a>	<a href="http://www.firstmarket.com/cutter/cut2.html">http://www.firstmarket.com/cutter/cut2.html</a>
<a href="http://searchlauncher.bcm.tmc.edu/seq-util/Options/revcomp.html">Reverse Complement of Sequence</a>	<a href="http://searchlauncher.bcm.tmc.edu/seq-util/Options/revcomp.html">http://searchlauncher.bcm.tmc.edu/seq-util/Options/revcomp.html</a>
<a href="http://frodo.wi.mit.edu/primer3/">Primer 3</a>	<a href="http://frodo.wi.mit.edu/primer3/">http://frodo.wi.mit.edu/primer3/</a>
<a href="http://bioinformatics.org/primerx/">PrimerX - mutagenic primer design</a>	<a href="http://bioinformatics.org/primerx/">http://bioinformatics.org/primerx/</a>
<a href="http://www.acaclone.com/">pDraw32 Acaclone Plasmid drawing</a>	<a href="http://www.acaclone.com/">http://www.acaclone.com/</a>
<a href="http://bioinformatics.org/savvy/">Savvy Plasmid Maps</a>	<a href="http://bioinformatics.org/savvy/">http://bioinformatics.org/savvy/</a>
<a href="http://emboss.sourceforge.net/">European Molecular Biology Open Software Suite EMBOSS</a>	<a href="http://emboss.sourceforge.net/">http://emboss.sourceforge.net/</a>
<a href="http://www.phrap.org/">Genome assembly by phred and phrap</a>	<a href="http://www.phrap.org/">http://www.phrap.org/</a>
<a href="http://www.embnet.org/node/64">EMBNET Quick Guides to phred and phrap</a>	<a href="http://www.embnet.org/node/64">http://www.embnet.org/node/64</a>
<a href="http://bioinfo.unice.fr/software/ohm/">Oligo Heat Map hybridization analysis</a>	<a href="http://bioinfo.unice.fr/software/ohm/">http://bioinfo.unice.fr/software/ohm/</a>
<a href="http://www.idtdna.com/SciTools/">Integrated DNA Technologies Oligo SciTools</a>	<a href="http://www.idtdna.com/SciTools/">http://www.idtdna.com/SciTools/</a>

### Protein tools

<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=NPSA/npsa_server.html">NPS: Network Protein Sequence Analysis</a>	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=NPSA/npsa_server.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=NPSA/npsa_server.html</a>
<a href="http://www.expasy.org/tools/pi_tool.html">pI/Mw tool - Expasy</a>	<a href="http://www.expasy.org/tools/pi_tool.html">http://www.expasy.org/tools/pi_tool.html</a>
<a href="http://www.expasy.org/tools/peptide-mass.html">PeptideMass - Expasy</a>	<a href="http://www.expasy.org/tools/peptide-mass.html">http://www.expasy.org/tools/peptide-mass.html</a>
<a href="http://www.expasy.org/tools/protparam.html">ProtParam tool - Expasy</a>	<a href="http://www.expasy.org/tools/protparam.html">http://www.expasy.org/tools/protparam.html</a>
<a href="http://web.expasy.org/protscale/">ProtScale - Expasy</a>	<a href="http://web.expasy.org/protscale/">http://web.expasy.org/protscale/</a>
<a href="http://iubio.bio.indiana.edu/soft/iubionew/molbio/protein/analysis/Saps/SAPS_form.html">ISREC SAPS server</a>	<a href="http://iubio.bio.indiana.edu/soft/iubionew/molbio/protein/analysis/Saps/SAPS_form.html">http://iubio.bio.indiana.edu/soft/iubionew/molbio/protein/analysis/Saps/SAPS_form.html</a>

## Phylogenetics

PHYLIP	<a href="http://evolution.genetics.washington.edu/phylip.html">http://evolution.genetics.washington.edu/phylip.html</a>
Inst. Pasteur Pylip Online Server	<a href="http://bioweb.pasteur.fr/seqanal/phylogeny/phylip-uk.html">http://bioweb.pasteur.fr/seqanal/phylogeny/phylip-uk.html</a>
Phylip Online Help	<a href="http://evolution.genetics.washington.edu/phylip/phylip.html">http://evolution.genetics.washington.edu/phylip/phylip.html</a>
Phylip Tutorial (Jarno Tuimala)	<a href="http://koti.mbnet.fi/tuimala/oppaat/phylip2.pdf">http://koti.mbnet.fi/tuimala/oppaat/phylip2.pdf</a>
EMBNNet A Quick Guide to PHYLIP	<a href="http://www.embnet.org/node/64">http://www.embnet.org/node/64</a>
Phylogeny.fr - robust phylogenetic analysis for the non-specialist	<a href="http://www.phylogeny.fr/">http://www.phylogeny.fr/</a>
MEGA phylogeny software	<a href="http://www.megasoftware.net/">http://www.megasoftware.net/</a>
MacClade Home Page	<a href="http://macclade.org/macclade.html">http://macclade.org/macclade.html</a>
PAUP	<a href="http://paup.csit.fsu.edu/index.html">http://paup.csit.fsu.edu/index.html</a>
FORESTER phylogenomics software libraries	<a href="http://www.phylosoft.org/forester/">http://www.phylosoft.org/forester/</a>
TreeView	<a href="http://taxonomy.zoology.gla.ac.uk/rod/treeview.html">http://taxonomy.zoology.gla.ac.uk/rod/treeview.html</a>
Rod Page Software	<a href="http://taxonomy.zoology.gla.ac.uk/rod/rod.html">http://taxonomy.zoology.gla.ac.uk/rod/rod.html</a>
Hypertree large tree displaying tool	<a href="http://kinase.com/tools/HyperTree.html">http://kinase.com/tools/HyperTree.html</a>
PANDIT Protein and Associated Nucleotide Domains with Inferred Trees	<a href="http://www.ebi.ac.uk/goldman-srv/pandit/">http://www.ebi.ac.uk/goldman-srv/pandit/</a>
PeCoP Psi-Blast to find persistently conserved positions	<a href="http://bioinformatics.org/pecop/">http://bioinformatics.org/pecop/</a>
Ribosomal Database Project	<a href="http://rdp.cme.msu.edu/">http://rdp.cme.msu.edu/</a>
Phylogeny Web Servers List	<a href="http://evolution.genetics.washington.edu/phylip/software.serv.html">http://evolution.genetics.washington.edu/phylip/software.serv.html</a>
PHYLIP Phylogeny Programs	<a href="http://evolution.genetics.washington.edu/phylip/software.html">http://evolution.genetics.washington.edu/phylip/software.html</a>
The Tree of Life Home Page	<a href="http://tolweb.org/tree/phylogeny.html">http://tolweb.org/tree/phylogeny.html</a>
Tree of Life Links	<a href="http://tolweb.org/tree/home.pages/links.html">http://tolweb.org/tree/home.pages/links.html</a>
NCBI Taxonomy Browser	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Taxonomy">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=Taxonomy</a>

## Annotation

### Gene Function Resources

Gene Ontology (GO) Consortium	<a href="http://www.geneontology.org/">http://www.geneontology.org/</a>
QuickGO - GO Browser at EBI	<a href="http://www.ebi.ac.uk/ego/GSearch?q=Quick+GO">http://www.ebi.ac.uk/ego/GSearch?q=Quick+GO</a>
AmiGO - GO Browser	<a href="http://amigo.geneontology.org/cgi-bin/amigo/go.cgi">http://amigo.geneontology.org/cgi-bin/amigo/go.cgi</a>
Ontology Lookup Service (OLS)	<a href="http://www.ebi.ac.uk/ontology-lookup/">http://www.ebi.ac.uk/ontology-lookup/</a>
GOA - Gene Ontology Annotation Project at EBI	<a href="http://www.ebi.ac.uk/GOA/index.html">http://www.ebi.ac.uk/GOA/index.html</a>
GOSat - find statistically overrepresented GO terms	<a href="http://gostat.wehi.edu.au/">http://gostat.wehi.edu.au/</a>
Gene Ontology Tools for Gene Expression Analysis	<a href="http://www.geneontology.org/GO.tools.microarray.shtml#serbgo">http://www.geneontology.org/GO.tools.microarray.shtml#serbgo</a>
Sequence Ontology Project	<a href="http://www.sequenceontology.org/">http://www.sequenceontology.org/</a>
Online Mendelian Inheritance in Man	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=OMIM</a>
GeneCards Weizmann	<a href="http://www.genecards.org/index.shtml">http://www.genecards.org/index.shtml</a>
Genetic Association Database	<a href="http://geneticassociationdb.nih.gov/">http://geneticassociationdb.nih.gov/</a>

### Integrated annotation services

NIH - DAVID Annotation tools	<a href="http://david.abcc.ncifcrf.gov/home.jsp">http://david.abcc.ncifcrf.gov/home.jsp</a>
eFamily Project - Grid integrating of protein database annotations	<a href="http://www.efamily.org.uk/">http://www.efamily.org.uk/</a>
DAS - Distributed Annotation System	<a href="http://biodas.org/">http://biodas.org/</a>
DAS registry server at Sanger - available DAS servers	<a href="http://das.sanger.ac.uk/das/sources">http://das.sanger.ac.uk/das/sources</a>
SPICE - DAS Client	<a href="http://www.efamily.org.uk/software/dasclients/spice/">http://www.efamily.org.uk/software/dasclients/spice/</a>
EnsEMBL Genome Browser DAS client	<a href="http://www.ensembl.org/">http://www.ensembl.org/</a>
Dasty - DAS client	<a href="http://www.ebi.ac.uk/dasty/">http://www.ebi.ac.uk/dasty/</a>

### Gene prediction services

Glimmer Microbial Gene-Finding System	<a href="http://cbscb.umd.edu/software/glimmer/">http://cbscb.umd.edu/software/glimmer/</a>
NCBI Glimmer3	<a href="http://www.ncbi.nlm.nih.gov/genomes/MICROBES/glimmer_3.cgi">http://www.ncbi.nlm.nih.gov/genomes/MICROBES/glimmer_3.cgi</a>
Grailexp Grail Experimental Gene Discovery Suite	<a href="http://compbio.ornl.gov/grailexp">http://compbio.ornl.gov/grailexp</a>
BCM Gene Feature Searches	<a href="http://searchlauncher.bcm.tmc.edu/seq-search/gene-search.html">http://searchlauncher.bcm.tmc.edu/seq-search/gene-search.html</a>
CBS HMMgene server	<a href="http://www.cbs.dtu.dk/services/HMMgene/">http://www.cbs.dtu.dk/services/HMMgene/</a>
CBS NetGene2 server	<a href="http://www.cbs.dtu.dk/services/NetGene2/">http://www.cbs.dtu.dk/services/NetGene2/</a>
CBS NetPlantGene server	<a href="http://www.cbs.dtu.dk/services/NetPGene/">http://www.cbs.dtu.dk/services/NetPGene/</a>
CBS Genome Atlas	<a href="http://www.cbs.dtu.dk/ws/ws.php?entry=GenomeAtlas">http://www.cbs.dtu.dk/ws/ws.php?entry=GenomeAtlas</a>
GeneMark	<a href="http://opal.biology.gatech.edu/GeneMark/">http://opal.biology.gatech.edu/GeneMark/</a>
WebGeneMark	<a href="http://opal.biology.gatech.edu/GeneMark/genemark24.cgi">http://opal.biology.gatech.edu/GeneMark/genemark24.cgi</a>
Eukaryotic WebGeneMark	<a href="http://opal.biology.gatech.edu/GeneMark/eukhmm.cgi">http://opal.biology.gatech.edu/GeneMark/eukhmm.cgi</a>
GENSCAN (C. Burge)	<a href="http://mobyli.pasteur.fr/cgi-bin/portal.py?#forms::genscan">http://mobyli.pasteur.fr/cgi-bin/portal.py?#forms::genscan</a>
SplicePredictor	<a href="http://deepc2.psi.iastate.edu/cgi-bin/sp.cgi">http://deepc2.psi.iastate.edu/cgi-bin/sp.cgi</a>
ESTScan: a program for detecting, evaluating, and reconstructing potential coding regions in ESTs	<a href="http://www.ch.embnet.org/software/ESTScan2.html">http://www.ch.embnet.org/software/ESTScan2.html</a>
EBI Wise2 matches protein to genomic DNA	<a href="http://www.ebi.ac.uk/Wise2/">http://www.ebi.ac.uk/Wise2/</a>
Lowelab tRNAscan-SE Search Server	<a href="http://lowelab.ucsc.edu/tRNAscan-SE/">http://lowelab.ucsc.edu/tRNAscan-SE/</a>

### Promotor prediction services

CBS NetStart 1.0 server Translation Start	<a href="http://www.cbs.dtu.dk/services/NetStart/">http://www.cbs.dtu.dk/services/NetStart/</a>
CBS Promoter 2.0 server	<a href="http://www.cbs.dtu.dk/services/promoter/">http://www.cbs.dtu.dk/services/promoter/</a>
WWW Promotor Scan Pol II	<a href="http://www.bimas.cit.nih.gov/molbio/proscan/index.html">http://www.bimas.cit.nih.gov/molbio/proscan/index.html</a>
EPD Eukaryotic promotor database	<a href="http://www.epd.isb-sib.ch/">http://www.epd.isb-sib.ch/</a>
TFM Explorer	<a href="http://bioinfo.lifl.fr/TFM/TFME/">http://bioinfo.lifl.fr/TFM/TFME/</a>
TFM-Scan	<a href="http://bioinfo.lifl.fr/TFM/TFMscan/">http://bioinfo.lifl.fr/TFM/TFMscan/</a>
TFSEARCH - Transcription Factor Search	<a href="http://www.cbrc.jp/research/db/TFSEARCH.html">http://www.cbrc.jp/research/db/TFSEARCH.html</a>
TRANSFAC database at Biobase Biological Databases	<a href="http://www.biobase.de/index.php?id=transfacdatabases">http://www.biobase.de/index.php?id=transfacdatabases</a>
ORegAnno: Open Regulatory Annotation	<a href="http://www.oreganno.org/oreganno/Help.jsp">http://www.oreganno.org/oreganno/Help.jsp</a>
JASPAR Transcription factor database	<a href="http://jaspar.genereg.net/">http://jaspar.genereg.net/</a>
JASPAR Transcription factor database paper	<a href="http://nar.oxfordjournals.org/cgi/reprint/36/suppl_1/D102">http://nar.oxfordjournals.org/cgi/reprint/36/suppl_1/D102</a>
MotifMogul - Multiple Transcription Factor Binding Sites Algorithms	<a href="http://xerad.systemsbio.org/MotifMogulServer/">http://xerad.systemsbio.org/MotifMogulServer/</a>
Regulatory Sequence Analysis Tools (RSAT)	<a href="http://rsat.ulb.ac.be/rsat/">http://rsat.ulb.ac.be/rsat/</a>
DIALIGN - multiple sequence alignments to find conserved regulatory elements	<a href="http://bibiserv.techfak.uni-bielefeld.de/dialign/">http://bibiserv.techfak.uni-bielefeld.de/dialign/</a>
The Gibbs Motif Sampler	<a href="http://bayesweb.wadsworth.org/gibbs/gibbs.html">http://bayesweb.wadsworth.org/gibbs/gibbs.html</a>
MEME MAST motif discovery and search	<a href="http://meme.sdsc.edu/meme/intro.html">http://meme.sdsc.edu/meme/intro.html</a>
DiRE identification of Distant Regulatory Elements of co-regulated genes	<a href="http://dire.dcode.org/">http://dire.dcode.org/</a>

ConTra - identification of conserved transcription factor binding sites	<a href="http://bioit.dmbr.ugent.be/ConTra/index.php">http://bioit.dmbr.ugent.be/ConTra/index.php</a>
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## Structures

### Transmembrane features

TMHMM Server 2.0	<a href="http://www.cbs.dtu.dk/services/TMHMM-2.0/">http://www.cbs.dtu.dk/services/TMHMM-2.0/</a>
Phobius - combined TM and signal peptide prediction	<a href="http://phobius.sbc.su.se/">http://phobius.sbc.su.se/</a>
ISREC TMPred Server	<a href="http://www.ch.embnet.org/software/TMPRED_form.html">http://www.ch.embnet.org/software/TMPRED_form.html</a>
SOSUI Structure prediction of membrane proteins	<a href="http://bp.nuap.nagoya-u.ac.jp/sosui/">http://bp.nuap.nagoya-u.ac.jp/sosui/</a>
HMMTOP Prediction of transmembrane helices and topology	<a href="http://www.enzim.hu/hmmtop/">http://www.enzim.hu/hmmtop/</a>
TMAP multiple sequence alignment protein prediction	<a href="http://mobylye.pasteur.fr/cgi-bin/MobylyePortal/portal.py?form=tmap">http://mobylye.pasteur.fr/cgi-bin/MobylyePortal/portal.py?form=tmap</a>
TopPred - Topology prediction of membrane helices	<a href="http://mobylye.pasteur.fr/cgi-bin/MobylyePortal/portal.py?form=toppred">http://mobylye.pasteur.fr/cgi-bin/MobylyePortal/portal.py?form=toppred</a>
PRED-TMBB transmembrane beta barrel prediction	<a href="http://biophysics.biol.uoa.gr/PRED-TMBB/input.jsp">http://biophysics.biol.uoa.gr/PRED-TMBB/input.jsp</a>

### 3D structures

RCSB PDB Protein Data Bank - PDB	<a href="http://www.rcsb.org/pdb/">http://www.rcsb.org/pdb/</a>
NCBI Structure	<a href="http://www.ncbi.nlm.nih.gov/Structure/">http://www.ncbi.nlm.nih.gov/Structure/</a>
Protein Databank in Europe (PDBe)	<a href="http://www.ebi.ac.uk/pdbe/">http://www.ebi.ac.uk/pdbe/</a>
Conserved Domain Database NCBI	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=cdd">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=cdd</a>
Structures by electron microscopy at MSD	<a href="http://www.ebi.ac.uk/msd-srv/emsearch/index.html">http://www.ebi.ac.uk/msd-srv/emsearch/index.html</a>
NCBI VAST structural alignments	<a href="http://www.ncbi.nlm.nih.gov/Structure/VAST/vast.shtml">http://www.ncbi.nlm.nih.gov/Structure/VAST/vast.shtml</a>
SWISS-MODEL	<a href="http://swissmodel.expasy.org/SWISS-MODEL.html">http://swissmodel.expasy.org/SWISS-MODEL.html</a>
EMBLnet - A Quick Guide to Swiss-Model	<a href="http://www.embnet.org/node/64">http://www.embnet.org/node/64</a>
EMBL Dali protein structure comparison server	<a href="http://ekhidna.biocenter.helsinki.fi/dali_server/">http://ekhidna.biocenter.helsinki.fi/dali_server/</a>
The DALI database Dali Fold Classification	<a href="http://ekhidna.biocenter.helsinki.fi/dali/start">http://ekhidna.biocenter.helsinki.fi/dali/start</a>
CPHmodels - Homology modeling	<a href="http://www.cbs.dtu.dk/services/CPHmodels/index.html">http://www.cbs.dtu.dk/services/CPHmodels/index.html</a>
ModBase - Comparative protein structure models	<a href="http://modbase.compbio.ucsf.edu/modbase-cgi/index.cgi">http://modbase.compbio.ucsf.edu/modbase-cgi/index.cgi</a>
SCOP: Structural Classification of Proteins	<a href="http://scop.mrc-lmb.cam.ac.uk/scop/">http://scop.mrc-lmb.cam.ac.uk/scop/</a>
Superfamily HMM models SCOP	<a href="http://supfam.mrc-lmb.cam.ac.uk/SUPERFAMILY/">http://supfam.mrc-lmb.cam.ac.uk/SUPERFAMILY/</a>
CATH Protein Structure Classification Database	<a href="http://www.cathdb.info/index.html">http://www.cathdb.info/index.html</a>
Gene3D Structural and Functional Annotation	<a href="http://gene3d.biochem.ucl.ac.uk/Gene3D/">http://gene3d.biochem.ucl.ac.uk/Gene3D/</a>
Ressource Parisienne en Bioinformatique Structurale (RPBS)	<a href="http://bioserv.rpbs.jussieu.fr/RPBS/html/fr/TO_Home.html">http://bioserv.rpbs.jussieu.fr/RPBS/html/fr/TO_Home.html</a>
Tutorial Protein Structures (EXPASY) SwissModel	<a href="http://swissmodel.expasy.org/course/course-index.htm">http://swissmodel.expasy.org/course/course-index.htm</a>

### 3D software

Rosetta	<a href="http://www.rosettacommons.org/">http://www.rosettacommons.org/</a>
foldit - The Protein folding game	<a href="http://fold.it/portal/">http://fold.it/portal/</a>
PyMOL molecular visualization system	<a href="http://www.pymol.org/">http://www.pymol.org/</a>
BALL and BALLView Visualization and Modelling Tools	<a href="http://www.ball-project.org/">http://www.ball-project.org/</a>
UCSF Chimera	<a href="http://plato.cgl.ucsf.edu/chimera/">http://plato.cgl.ucsf.edu/chimera/</a>
TarFisDock identifying drug targets by docking	<a href="http://www.dddc.ac.cn/tarfishdock/">http://www.dddc.ac.cn/tarfishdock/</a>
CAVER protein analysis and visualization - pockets and tunnels	<a href="http://www.caver.cz/">http://www.caver.cz/</a>
DeepView Swiss-PdbViewer	<a href="http://spdbv.vital-it.ch/">http://spdbv.vital-it.ch/</a>
GENO3D : Automatic Modeling of Protein Structure	<a href="http://geno3d-pbil.ibcp.fr/cgi-bin/geno3d_automat.pl?page=/GENO3D/geno3d_home.html">http://geno3d-pbil.ibcp.fr/cgi-bin/geno3d_automat.pl?page=/GENO3D/geno3d_home.html</a>
PredictProtein	<a href="http://www.predictprotein.org/">http://www.predictprotein.org/</a>
Cn3D Home Page	<a href="http://www.ncbi.nlm.nih.gov/Structure/CN3D/cn3d.shtml">http://www.ncbi.nlm.nih.gov/Structure/CN3D/cn3d.shtml</a>
Jmol	<a href="http://jmol.sourceforge.net/">http://jmol.sourceforge.net/</a>
Open Rasmol	<a href="http://www.openrasmol.org/">http://www.openrasmol.org/</a>
RasTop - Rasmol Graphical Interface	<a href="http://www.geneinfinity.org/rastop/">http://www.geneinfinity.org/rastop/</a>
Chime	<a href="http://www.umass.edu/microbio/chime/getchime.htm">http://www.umass.edu/microbio/chime/getchime.htm</a>
Polyview 3D web server for animated images	<a href="http://polyview.cchmc.org/polyview3d.html">http://polyview.cchmc.org/polyview3d.html</a>
Biodesigner Molecular Modeling and Visualization	<a href="http://www.pirx.com/biodesigner/overview.html">http://www.pirx.com/biodesigner/overview.html</a>
VMD - Visual Molecular Dynamics	<a href="http://www.ks.uiuc.edu/Research/vmd/">http://www.ks.uiuc.edu/Research/vmd/</a>
Accelrys Discovery Studio Visualizer (free version)	<a href="http://www.accelrys.com/products/downloads/ds_visualizer/index.html">http://www.accelrys.com/products/downloads/ds_visualizer/index.html</a>

**Model building**

Coot	<a href="http://www.biop.ox.ac.uk/coot/">http://www.biop.ox.ac.uk/coot/</a>
O (Alwyn Jones)	<a href="http://xray.bmc.uu.se/~alwyn/index.html">http://xray.bmc.uu.se/~alwyn/index.html</a>
Accelrys Discovery Studio	<a href="http://accelrys.com/products/discovery-studio/">http://accelrys.com/products/discovery-studio/</a>
ARP/wARP	<a href="http://www.embl-hamburg.de/ARP/">http://www.embl-hamburg.de/ARP/</a>
HKL X-ray crystallography package	<a href="http://www.hkl-xray.com/">http://www.hkl-xray.com/</a>
XDS diffraction data processing	<a href="http://www.mpimf-heidelberg.mpg.de/~kabsch/xds/">http://www.mpimf-heidelberg.mpg.de/~kabsch/xds/</a>
Mosflm diffraction data processing	<a href="http://www.mrc-lmb.cam.ac.uk/harry/imosflm/">http://www.mrc-lmb.cam.ac.uk/harry/imosflm/</a>
Phaser crystallographic software	<a href="http://www.phaser.cimr.cam.ac.uk/index.php/Phaser_Crystallographic_Software">http://www.phaser.cimr.cam.ac.uk/index.php/Phaser_Crystallographic_Software</a>
SHARP/autoSHARP	<a href="http://www.globalphasing.com/sharp/">http://www.globalphasing.com/sharp/</a>
SHELX	<a href="http://shelx.uni-ac.gwdg.de/SHELX/">http://shelx.uni-ac.gwdg.de/SHELX/</a>
Phenix	<a href="http://www.phenix-online.org/">http://www.phenix-online.org/</a>
RefMac	<a href="http://www.ysbl.york.ac.uk/~garib/refmac/">http://www.ysbl.york.ac.uk/~garib/refmac/</a>
Solve/Resolve	<a href="https://solve.lanl.gov/">https://solve.lanl.gov/</a>
USF Uppsala software factory	<a href="http://xray.bmc.uu.se/usf/">http://xray.bmc.uu.se/usf/</a>
CCMS XtalView	<a href="http://www.sdsc.edu/CCMS/Packages/XTALVIEW/xtalview.html">http://www.sdsc.edu/CCMS/Packages/XTALVIEW/xtalview.html</a>
CCP4 Molecular Graphics	<a href="http://www.ccp4.ac.uk/MG/">http://www.ccp4.ac.uk/MG/</a>
CCP4 Software for Molecular X-ray crystallography	<a href="http://www.ccp4.ac.uk/">http://www.ccp4.ac.uk/</a>
CCP4 Scala - scale together multiple observations of reflections	<a href="http://smb.slac.stanford.edu/facilities/software/ccp4/html/scala.html">http://smb.slac.stanford.edu/facilities/software/ccp4/html/scala.html</a>
CCP4 Molrep - automated program for molecular replacement	<a href="http://www.ccp4.ac.uk/html/molrep.html">http://www.ccp4.ac.uk/html/molrep.html</a>
CCP4 SOLOMON - density modification (phase improvement) by solvent flipping	<a href="http://www.ccp4.ac.uk/html/solomon.html">http://www.ccp4.ac.uk/html/solomon.html</a>
CNSsolve Crystallography and NMR system	<a href="http://cns-online.org/">http://cns-online.org/</a>
EMAN 3D single particle image reconstruction	<a href="http://blake.bcm.tmc.edu/eman/">http://blake.bcm.tmc.edu/eman/</a>
SPIDER and WEB EM 3D single particle image reconstruction	<a href="http://www.wadsworth.org/spider_doc/spider/docs/">http://www.wadsworth.org/spider_doc/spider/docs/</a>

**Signal peptides and localization**

SignalP server	<a href="http://www.cbs.dtu.dk/services/SignalP/">http://www.cbs.dtu.dk/services/SignalP/</a>
Phobius - combined TM and signal peptide prediction	<a href="http://phobius.sbc.su.se/">http://phobius.sbc.su.se/</a>
PSORT WWW Server	<a href="http://psort.hgc.jp/">http://psort.hgc.jp/</a>
iPSORT N-terminal protein sorting signals	<a href="http://ipsort.hgc.jp/">http://ipsort.hgc.jp/</a>

**Glycosylation and lipid modifications**

NetNGlyc Server	<a href="http://www.cbs.dtu.dk/services/NetNGlyc/">http://www.cbs.dtu.dk/services/NetNGlyc/</a>
NetOGlyc server	<a href="http://www.cbs.dtu.dk/services/NetOGlyc/">http://www.cbs.dtu.dk/services/NetOGlyc/</a>
ExPASy - ScanProsite tool	<a href="http://www.expasy.org/tools/scanprosite/">http://www.expasy.org/tools/scanprosite/</a>
LipoP 1.0 server gram negative lipoprotein prediction	<a href="http://www.cbs.dtu.dk/services/LipoP/">http://www.cbs.dtu.dk/services/LipoP/</a>

**Secondary structures**

BCM Structure Prediction Tools	<a href="http://searchlauncher.bcm.tmc.edu/seq-search/struc-predict.html">http://searchlauncher.bcm.tmc.edu/seq-search/struc-predict.html</a>
PredictProtein	<a href="http://www.predictprotein.org/">http://www.predictprotein.org/</a>
JPRED Secondary structure prediction	<a href="http://www.compbio.dundee.ac.uk/~www-jpred/">http://www.compbio.dundee.ac.uk/~www-jpred/</a>
JUFO neuronal network prediction server	<a href="http://www.meilerlab.org/index.php/servers">http://www.meilerlab.org/index.php/servers</a>
PSIPRED Protein Structure Prediction Server	<a href="http://bioinf.cs.ucl.ac.uk/psipred/">http://bioinf.cs.ucl.ac.uk/psipred/</a>
PROF - Secondary Structure Prediction System	<a href="http://www.aber.ac.uk/~phiwww/prof/">http://www.aber.ac.uk/~phiwww/prof/</a>
ISREC COILS Server	<a href="http://www.ch.embnnet.org/software/COILS_form.html">http://www.ch.embnnet.org/software/COILS_form.html</a>
NPS: Consensus secondary structure prediction	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_seccons.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_seccons.html</a>
NPS : coiled-coils prediction	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_lupas.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_lupas.html</a>
NPS: MLRC	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_mlrc.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_mlrc.html</a>
NPS: HNN	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_hnn.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_hnn.html</a>
NPS: SOPMA	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_sopma.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_sopma.html</a>
NPS: GOR4	<a href="http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_gor4.html">http://npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=/NPSA/npsa_gor4.html</a>
DSSP Kabsch Sander PDB secondary structure assignment	<a href="http://swift.cmbi.kun.nl/gv/dssp/">http://swift.cmbi.kun.nl/gv/dssp/</a>
BotDB DSSP analysis	<a href="http://botdb.abcc.ncifcrf.gov/proteinAnal/dsspUpload.jsp">http://botdb.abcc.ncifcrf.gov/proteinAnal/dsspUpload.jsp</a>
DSSPCont Rostlab	<a href="https://rostlab.org/owiki/index.php/DSSPcont">https://rostlab.org/owiki/index.php/DSSPcont</a>
DomCut prediction of linker regions between functional domains	<a href="http://www.bork.embl-heidelberg.de/~suyama/domcut/">http://www.bork.embl-heidelberg.de/~suyama/domcut/</a>

**RNA**

Unafold RNA folding services	<a href="http://mfold.rna.albany.edu/">http://mfold.rna.albany.edu/</a>
Integrated DNA Technologies Unafold server	<a href="http://eu.idtdna.com/Scitools/Applications/unafold/">http://eu.idtdna.com/Scitools/Applications/unafold/</a>
Vienna RNA secondary structure servers	<a href="http://rna.tbi.univie.ac.at/">http://rna.tbi.univie.ac.at/</a>
ncRNA tools for sequence/structure analyses of non-coding RNAs	<a href="http://software.ncrna.org/">http://software.ncrna.org/</a>
SARSA Structural Alignment of RNA Using a Structural Alphabet	<a href="http://genome.cs.nthu.edu.tw/SARSA/">http://genome.cs.nthu.edu.tw/SARSA/</a>
MAGNOLIA advanced RNA sequence and structural alignment	<a href="http://bioinfo.lifl.fr/magnolia/">http://bioinfo.lifl.fr/magnolia/</a>

**Small molecules**

Human Metabolome Database	<a href="http://www.hmdb.ca">http://www.hmdb.ca</a>
KEGG Drug Database	<a href="http://www.genome.jp/kegg/drug/">http://www.genome.jp/kegg/drug/</a>
KEGG Ligand Database	<a href="http://www.genome.ad.jp/kegg/ligand.html">http://www.genome.ad.jp/kegg/ligand.html</a>
ChEBI - Chemical Entities of Biological Interest	<a href="http://www.genome.jp/kegg/liqand.html">http://www.genome.jp/kegg/liqand.html</a>
MSD Ligand Chemistry in PDB	<a href="http://www.ebi.ac.uk/msd-srv/msdchem/cgi-bin/cgi.pl">http://www.ebi.ac.uk/msd-srv/msdchem/cgi-bin/cgi.pl</a>
NCBI PubChem Compound	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pccompound">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pccompound</a>
NCBI PubChem Substance	<a href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pcsubstance">http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pcsubstance</a>
NLM SIS Chemical Information	<a href="http://sis.nlm.nih.gov/chemical.html">http://sis.nlm.nih.gov/chemical.html</a>
NCI-3D Search	<a href="http://chem.sis.nlm.nih.gov/hci3d/">http://chem.sis.nlm.nih.gov/hci3d/</a>
ChemIDplus	<a href="http://chem.sis.nlm.nih.gov/chemidplus/">http://chem.sis.nlm.nih.gov/chemidplus/</a>
CHEMINFO: Chemical Information Sources from Indiana University	<a href="http://www.indiana.edu/~cheminfo/">http://www.indiana.edu/~cheminfo/</a>
FAF-Drugs: Free ADME/tox Filtering	<a href="http://bioserv.rpbs.jussieu.fr/Help/FAFDrugs.html">http://bioserv.rpbs.jussieu.fr/Help/FAFDrugs.html</a>
OpenBabel format conversion tool for drugs	<a href="http://mobylye.rpbs.univ-paris-diderot.fr/cgi-bin/portal.py?form=OpenBabel">http://mobylye.rpbs.univ-paris-diderot.fr/cgi-bin/portal.py?form=OpenBabel</a>
Java Molecular Editor at RPBS	<a href="http://mobylye.rpbs.univ-paris-diderot.fr/cgi-bin/portal.py?form=JME">http://mobylye.rpbs.univ-paris-diderot.fr/cgi-bin/portal.py?form=JME</a>
JME Molecular Editor by Peter Ertl	<a href="http://www.molinspiration.com/jme/">http://www.molinspiration.com/jme/</a>
SuperPred Drug Target Prediction Server	<a href="http://bioinformatics.charite.de/superpred/">http://bioinformatics.charite.de/superpred/</a>

## Functional genomics

### Transcriptomics databases

Microarray Bioinformatics at EBI	<a href="http://www.ebi.ac.uk/microarray/index.html">http://www.ebi.ac.uk/microarray/index.html</a>
Arrayexpress at the EBI	<a href="http://www.ebi.ac.uk/arrayexpress/">http://www.ebi.ac.uk/arrayexpress/</a>
Expression Profiler at EBI	<a href="http://www.ebi.ac.uk/expressionprofiler/">http://www.ebi.ac.uk/expressionprofiler/</a>
Documentation for Expression Profiler	<a href="http://www.bioinf.ebc.ee/EP/EP/">http://www.bioinf.ebc.ee/EP/EP/</a>
Gene Expression Atlas - Large Scale Meta-Analysis of Public Microarray Data	<a href="http://www.ebi.ac.uk/gxa/">http://www.ebi.ac.uk/gxa/</a>
GEO Gene Expression Omnibus at NCBI	<a href="http://www.ncbi.nlm.nih.gov/geo/">http://www.ncbi.nlm.nih.gov/geo/</a>
NCBI Sequence Read Archive	<a href="http://www.ncbi.nlm.nih.gov/sra">http://www.ncbi.nlm.nih.gov/sra</a>
MaRe Microarray Retriever	<a href="http://grenada.lumc.nl/HumaneGenetica/MaRe/">http://grenada.lumc.nl/HumaneGenetica/MaRe/</a>
Stanford Microarray Database	<a href="http://genome-www5.stanford.edu/">http://genome-www5.stanford.edu/</a>
Yale Microarray Database	<a href="http://info.med.yale.edu/microarray/">http://info.med.yale.edu/microarray/</a>
JCV Institute Genomics	<a href="http://www.jcvi.org/cms/research/groups/">http://www.jcvi.org/cms/research/groups/</a>
NIH ENCODE Project: ENcyclopedia Of DNA Elements	<a href="http://www.genome.gov/10005107">http://www.genome.gov/10005107</a>
NGFN German National Functional Genomics Network	<a href="http://www.ngfn.de/">http://www.ngfn.de/</a>
Genevestigator	<a href="https://www.genevestigator.ethz.ch/">https://www.genevestigator.ethz.ch/</a>
GeneCAT - Gene Co-expression Analysis Toolbox	<a href="http://genecat.mpg.de/">http://genecat.mpg.de/</a>
CATMA - A complete Arabidopsis Transcriptome MicroArray	<a href="http://www.catma.org/">http://www.catma.org/</a>
The Arabidopsis Information Resource - TAIR	<a href="http://www.arabidopsis.org/">http://www.arabidopsis.org/</a>
AFGN Arabidopsis Functional Genomics Network	<a href="http://www.uni-tuebingen.de/plantphys/AFGN/">http://www.uni-tuebingen.de/plantphys/AFGN/</a>
Microarray Gene Expression Data Society	<a href="http://www.mged.org/">http://www.mged.org/</a>
Stanford Functional Genomics Facility	<a href="http://microarray.org/sfgf/">http://microarray.org/sfgf/</a>

### Transcriptomics tools

NIH - Guide to Microarray Data analysis	<a href="http://discover.nci.nih.gov/microarrayAnalysis/Microarray_Home.jsp">http://discover.nci.nih.gov/microarrayAnalysis/Microarray_Home.jsp</a>
Microarray Tools at NCI	<a href="http://discover.nci.nih.gov/tools.jsp">http://discover.nci.nih.gov/tools.jsp</a>
HSLs: Microarray, SAGE and other gene expression data analysis tools	<a href="http://www.hsls.pitt.edu/obrc/index.php?page=gene_expression">http://www.hsls.pitt.edu/obrc/index.php?page=gene_expression</a>
J-Express microarray analysis free version	<a href="http://www.ii.uib.no/%7Ebjarted/jexpress/main.html">http://www.ii.uib.no/%7Ebjarted/jexpress/main.html</a>
MicroArray Explorer tool for Data Mining Gene Expression Patterns	<a href="http://maexplorer.sourceforge.net/">http://maexplorer.sourceforge.net/</a>
Tools from the Eisen Lab	<a href="http://www.eisenlab.org/eisen/">http://www.eisenlab.org/eisen/</a>
BioConductor Project - Open Source Software for Bioinformatics	<a href="http://www.bioconductor.org/">http://www.bioconductor.org/</a>
R and Bioconductor Manual (Thomas Girke)	<a href="http://manuals.bioinformatics.ucr.edu/home/R_BioCondManual">http://manuals.bioinformatics.ucr.edu/home/R_BioCondManual</a>
Babelomics - Systems biology microarray data mining	<a href="http://babelomics.bioinfo.cipf.es/index.html">http://babelomics.bioinfo.cipf.es/index.html</a>
TIGR Microarray Software	<a href="http://www.jcvi.org/cms/research/software/">http://www.jcvi.org/cms/research/software/</a>
RNA-Seq software ERANGE	<a href="http://woldlab.caltech.edu/maseq/">http://woldlab.caltech.edu/maseq/</a>
Broad Institute Genecluster 2.0	<a href="http://www.broad.mit.edu/cancer/software/genecluster2/gc_license.html">http://www.broad.mit.edu/cancer/software/genecluster2/gc_license.html</a>
dChip Software: Gene Expression Microarray and SNP Microarray Analysis	<a href="http://biosun1.harvard.edu/complab/dchip/">http://biosun1.harvard.edu/complab/dchip/</a>
NASC Affymetrix Service: Analysis hints	<a href="http://affy.arabidopsis.info/analysisindex.html">http://affy.arabidopsis.info/analysisindex.html</a>
Analysis of Affymetrix data using Excel	<a href="http://affy.arabidopsis.info/AffyAnalysisWithExcel.html">http://affy.arabidopsis.info/AffyAnalysisWithExcel.html</a>
Affymetrix - NetAffx™ Analysis Center	<a href="http://www.affymetrix.com/analysis/index.affx">http://www.affymetrix.com/analysis/index.affx</a>
MapMan - integrative view of microarray data and metabolic maps	<a href="http://gabi.rzpd.de/projects/MapMan/">http://gabi.rzpd.de/projects/MapMan/</a>
GenMAPP Gene Map Annotator and Pathway Profiler	<a href="http://www.genmapp.org/">http://www.genmapp.org/</a>

### Proteomics databases and search engines

ExpASy Swiss 2Dpage	<a href="http://world-2dpage.expasy.org/swiss-2dpage/">http://world-2dpage.expasy.org/swiss-2dpage/</a>
WORLD-2DPAGE Index to 2D-PAGE databases and services	<a href="http://world-2dpage.expasy.org/list/">http://world-2dpage.expasy.org/list/</a>
ExpASy Peptide Mass Tool	<a href="http://web.expasy.org/peptide_mass/">http://web.expasy.org/peptide_mass/</a>
ExpASy Mass Search	<a href="http://www.cbrg.ethz.ch/services/MassSearch_new">http://www.cbrg.ethz.ch/services/MassSearch_new</a>
ExpASy MultiIdent Peptide Mass Fingerprinting Tool	<a href="http://web.expasy.org/multiident/">http://web.expasy.org/multiident/</a>
MASCOT Peptide Mass Fingerprint	<a href="http://www.matrixscience.com/search_form_select.html">http://www.matrixscience.com/search_form_select.html</a>
SEQUEST MS proteomics search engine	<a href="http://fields.scripps.edu/researchtools.php">http://fields.scripps.edu/researchtools.php</a>
Phenyx MS protein search engine (GeneBio/SIB)	<a href="http://www.genebio.com/products/phenyx/">http://www.genebio.com/products/phenyx/</a>
X! Tandem MS search engine	<a href="http://www.thegpm.org/TANDEM/index.html">http://www.thegpm.org/TANDEM/index.html</a>
OMSSA ms/ms search engine	<a href="http://pubchem.ncbi.nlm.nih.gov/omssa/">http://pubchem.ncbi.nlm.nih.gov/omssa/</a>
UCSF Mass Spectrometry Facility Protein Prospector	<a href="http://prospector.ucsf.edu/prospector/mshome.htm">http://prospector.ucsf.edu/prospector/mshome.htm</a>
PROWL protein and MS tools	<a href="http://prowl.rockefeller.edu/">http://prowl.rockefeller.edu/</a>
PRIDE - Proteomics Identifications Database	<a href="http://www.ebi.ac.uk/pride/">http://www.ebi.ac.uk/pride/</a>
PeptideAtlas	<a href="http://www.peptideatlas.org/">http://www.peptideatlas.org/</a>
GPMDb proteomics database	<a href="http://gpmdb.thegpm.org/">http://gpmdb.thegpm.org/</a>

Human Protein Atlas	<a href="http://www.proteinatlas.org/">http://www.proteinatlas.org/</a>
Tranche - Secure P2P for Scientific Data Dissemination	<a href="http://tranche.proteomecommons.org/">http://tranche.proteomecommons.org/</a>
ISPIDER MS meta protein database search	<a href="http://www.ispider.manchester.ac.uk/cgi-bin/ispider.pl">http://www.ispider.manchester.ac.uk/cgi-bin/ispider.pl</a>
Protein Identifier Cross-Reference Service	<a href="http://www.ebi.ac.uk/Tools/picr/">http://www.ebi.ac.uk/Tools/picr/</a>
NIH Histone Sequence Database	<a href="http://genome.nih.gov/histones/">http://genome.nih.gov/histones/</a>
Phospho.ELM Database of phosphorylation sites	<a href="http://phospho.elm.eu.org/">http://phospho.elm.eu.org/</a>
PhosphoPep Phosphopeptide systems biology database	<a href="http://www.phosphopep.org/">http://www.phosphopep.org/</a>
Human Protein Reference Database	<a href="http://www.hprd.org/">http://www.hprd.org/</a>

#### Proteomics post translational modifications

ExPASy - FindMod tool	<a href="http://web.expasy.org/findmod/findmod_masses.html">http://web.expasy.org/findmod/findmod_masses.html</a>
ExPASy - QuickMod - MS/MS modified peptide search tool	<a href="http://web.expasy.org/quickmod/">http://web.expasy.org/quickmod/</a>
RESID Database of protein modifications	<a href="http://www.ebi.ac.uk/RESID/">http://www.ebi.ac.uk/RESID/</a>
Delta Mass PTM database (ABFR)	<a href="http://www.abfr.org/index.cfm/dm_home">http://www.abfr.org/index.cfm/dm_home</a>
Unimod database - protein modifications for MS	<a href="http://www.unimod.org/unimod_help.html">http://www.unimod.org/unimod_help.html</a>
Unimod - Modification naming guidelines	<a href="http://www.unimod.org/names.html">http://www.unimod.org/names.html</a>
PRIDE Modification Search	<a href="http://www.ebi.ac.uk/pride/modSearch.do">http://www.ebi.ac.uk/pride/modSearch.do</a>
PRIDE modification ontology lookup service (OLS)	<a href="http://www.ebi.ac.uk/ontology-lookup/browse.do?ontName=MOD">http://www.ebi.ac.uk/ontology-lookup/browse.do?ontName=MOD</a>
ExPASy - Sulfinator tool Tyr sulfination sites predictor	<a href="http://web.expasy.org/sulfinator/">http://web.expasy.org/sulfinator/</a>
NetPhos 2.0 Server STY phosphorylation site predictor	<a href="http://www.cbs.dtu.dk/services/NetPhos/">http://www.cbs.dtu.dk/services/NetPhos/</a>
HUPO PSI Protein Modification Documentation	<a href="http://www.psidev.info/">http://www.psidev.info/</a>

#### Proteomics software

TPP Trans-Proteomic Pipeline	<a href="http://tools.proteomecenter.org/wiki/index.php?title=Software:TPP">http://tools.proteomecenter.org/wiki/index.php?title=Software:TPP</a>
SASHIMI MS proteomics pipeline	<a href="http://sourceforge.net/projects/sashimi">http://sourceforge.net/projects/sashimi</a>
OpenMS / TOPP open source MS proteomics pipeline	<a href="http://open-ms.sourceforge.net/">http://open-ms.sourceforge.net/</a>
MaxQuant	<a href="http://www.maxquant.org/">http://www.maxquant.org/</a>
ICPLQuant	<a href="http://www.biochem.mpg.de/lottspeich/technologies/ICPLQuant/index.html">http://www.biochem.mpg.de/lottspeich/technologies/ICPLQuant/index.html</a>
Scaffold protein identification framework (by Proteome Software)	<a href="http://www.proteomesoftware.com/Proteome_software_prod_Scaffold.html">http://www.proteomesoftware.com/Proteome_software_prod_Scaffold.html</a>
mMass - Open Source Mass Spectrometry Tool	<a href="http://mmass.biographics.cz/">http://mmass.biographics.cz/</a>
PeptideProphet MS proteomics prediction tool	<a href="http://peptideprophet.sourceforge.net/">http://peptideprophet.sourceforge.net/</a>
ProteinProphet MS proteomics prediction tool	<a href="http://proteinprophet.sourceforge.net/">http://proteinprophet.sourceforge.net/</a>
MassTRIX Metabolomics mass to pathway mapper	<a href="http://www.helmholtz-muenchen.de/en/mips/workgroups/metabolomics/metabolomics-projects/masstrix/index.html">http://www.helmholtz-muenchen.de/en/mips/workgroups/metabolomics/metabolomics-projects/masstrix/index.html</a>

#### Proteomics organisations and standards

HUPO - Human Proteome Organisation	<a href="http://www.hupo.org/">http://www.hupo.org/</a>
UniProt Chordata protein annotation program	<a href="http://www.uniprot.org/program/Chordata">http://www.uniprot.org/program/Chordata</a>
HUPO Proteomics Standards Initiative	<a href="http://www.psidev.info/">http://www.psidev.info/</a>
MASC Arabidopsis Proteomics Standards Subcommittee	<a href="http://www.arabidopsis.org/portals/masc/Subcommittees.jsp">http://www.arabidopsis.org/portals/masc/Subcommittees.jsp</a>
mzML Specification   HUPO Proteomics Standards Initiative	<a href="http://www.psidev.info/index.php?q=node/257">http://www.psidev.info/index.php?q=node/257</a>
Mass spectrometry data formats - Wikipedia	<a href="http://en.wikipedia.org/wiki/Mass_spectrometry_data_formats">http://en.wikipedia.org/wiki/Mass_spectrometry_data_formats</a>
gabi Arabidopsis Proteomics Data	<a href="http://gabi.rzpd.de/projects/Arabidopsis_Proteomics/">http://gabi.rzpd.de/projects/Arabidopsis_Proteomics/</a>
Proteomics from Angelika Görg	<a href="http://www.weihenstephan.de/blm/deg/">http://www.weihenstephan.de/blm/deg/</a>
Boston University Biology Proteomics Resource	<a href="http://genomics10.bu.edu/jtullai/proteomics_resources/">http://genomics10.bu.edu/jtullai/proteomics_resources/</a>
Deutsche Gesellschaft für Proteomforschung	<a href="http://www.dgpf.org/">http://www.dgpf.org/</a>
Swiss Proteomics Society	<a href="http://www.swissproteomicsociety.org/">http://www.swissproteomicsociety.org/</a>
SWISS Proteomics Society Proteomics Links	<a href="http://www.swissproteomicsociety.org/links.html">http://www.swissproteomicsociety.org/links.html</a>
Proteome commons	<a href="http://www.proteomecommons.org/index.jsp">http://www.proteomecommons.org/index.jsp</a>
ISB NHLBI Seattle Proteome Center	<a href="http://www.proteomecenter.org/">http://www.proteomecenter.org/</a>
IonSource Proteomics Resource Links	<a href="http://www.ionsource.com/links/proteolinks.htm">http://www.ionsource.com/links/proteolinks.htm</a>

**Protein-Protein Interactions**

EBI IntAct Project	<a href="http://www.ebi.ac.uk/intact/">http://www.ebi.ac.uk/intact/</a>
DIP - Database of Interacting Proteins	<a href="http://dip.doe-mbi.ucla.edu/">http://dip.doe-mbi.ucla.edu/</a>
DIP DLRP Database of Interacting Proteins	<a href="http://dip.doe-mbi.ucla.edu/dip/DLRP.cgi">http://dip.doe-mbi.ucla.edu/dip/DLRP.cgi</a>
BOND - Biomolecular Object Network Database	<a href="http://bond.unleashedinformatics.com/">http://bond.unleashedinformatics.com/</a>
BioGRID - General Repository for Interaction Datasets	<a href="http://www.thebiogrid.org/">http://www.thebiogrid.org/</a>
MINT - Molecular Interactions database	<a href="http://mint.bio.uniroma2.it/mint/">http://mint.bio.uniroma2.it/mint/</a>
GNP Genome Network Platform	<a href="http://genomenetwork.nig.ac.jp/public/sys/gnppub/">http://genomenetwork.nig.ac.jp/public/sys/gnppub/</a>
MIPS MPact Protein Interaction and Complex DB	<a href="http://mips.helmholtz-muenchen.de/genre/proj/mpact/">http://mips.helmholtz-muenchen.de/genre/proj/mpact/</a>
MIPS Mammalian Protein-Protein Interaction Databank	<a href="http://mips.helmholtz-muenchen.de/proj/ppi/">http://mips.helmholtz-muenchen.de/proj/ppi/</a>
The JCB Protein-Protein Interaction Website	<a href="http://www.imb-jena.de/jcb/ppi/">http://www.imb-jena.de/jcb/ppi/</a>
GeneInfinity's Protein Interaction Analysis page	<a href="http://www.geneinfinity.org/sp/sp_proteininteraction.html#ppidb">http://www.geneinfinity.org/sp/sp_proteininteraction.html#ppidb</a>
HPRD Human Protein Reference Database	<a href="http://www.hprd.org/">http://www.hprd.org/</a>
Human Protein Interaction Database	<a href="http://wilab.inha.ac.kr/hpid/">http://wilab.inha.ac.kr/hpid/</a>
NCBI HIV Human protein interaction database	<a href="http://www.ncbi.nlm.nih.gov/RefSeq/HIVInteractions/">http://www.ncbi.nlm.nih.gov/RefSeq/HIVInteractions/</a>
UniHI MDC Unified Human Interactome	<a href="http://theoderich.fb3.mdc-berlin.de:8080/unihi/home">http://theoderich.fb3.mdc-berlin.de:8080/unihi/home</a>
MIPS Yeast Protein-Protein-Interaction and Complex Viewer	<a href="http://mips.helmholtz-muenchen.de/proj/yeast/CYGD/interaction/">http://mips.helmholtz-muenchen.de/proj/yeast/CYGD/interaction/</a>
Yeast Protein complex database	<a href="http://yeast-complexes.embl.de/">http://yeast-complexes.embl.de/</a>
HomoMINT predicted human interaction network	<a href="http://mint.bio.uniroma2.it/HomoMINT/">http://mint.bio.uniroma2.it/HomoMINT/</a>
PIPs Human Protein Interaction Prediction Database	<a href="http://www.compbio.dundee.ac.uk/www-pips/">http://www.compbio.dundee.ac.uk/www-pips/</a>
Domino Domain peptide interaction database	<a href="http://mint.bio.uniroma2.it/domino/">http://mint.bio.uniroma2.it/domino/</a>
VirusMINT	<a href="http://mint.bio.uniroma2.it/virusmint/">http://mint.bio.uniroma2.it/virusmint/</a>
OPHID Interologous interaction database	<a href="http://ophid.utoronto.ca/">http://ophid.utoronto.ca/</a>
PathBlast - Comparison of interaction networks between organisms	<a href="http://www.pathblast.org/">http://www.pathblast.org/</a>
iHOP - Information Hyperlinked over Proteins	<a href="http://www.ihop-net.org/UniPub/iHOP/">http://www.ihop-net.org/UniPub/iHOP/</a>
String: functional protein association networks	<a href="http://string.embl.de/">http://string.embl.de/</a>
3DID - 3D interacting domains	<a href="http://3did.irbbarcelona.org/">http://3did.irbbarcelona.org/</a>
DOMINE Database of Protein Domain Interactions	<a href="http://domine.utdallas.edu/cgi-bin/Domine">http://domine.utdallas.edu/cgi-bin/Domine</a>
PSI-MI HUPPO Standard for interactions	<a href="http://www.psidev.info/index.php?q=node/60">http://www.psidev.info/index.php?q=node/60</a>
BioPAX - data exchange for biological pathway data	<a href="http://www.biopax.org/">http://www.biopax.org/</a>
Graphviz - Open Source Graph Visualization Software	<a href="http://www.graphviz.org/">http://www.graphviz.org/</a>
Cytoscape - open source software for interaction visualization and integration	<a href="http://www.cytoscape.org/">http://www.cytoscape.org/</a>
Osprey - protein interaction viewer	<a href="http://biodata.mshri.on.ca/osprey/">http://biodata.mshri.on.ca/osprey/</a>
Osprey - protein interaction molecular modeling	<a href="http://www.cs.duke.edu/donaldlab/osprey.php">http://www.cs.duke.edu/donaldlab/osprey.php</a>
visANT - Visual Analysis Tool for Biological Networks and Pathways	<a href="http://visant.bu.edu/">http://visant.bu.edu/</a>
aiSee - commercial Graph layout software	<a href="http://www.aisee.com/">http://www.aisee.com/</a>
NAViGaTOR - Network Analysis, Visualization, & Graphing TORonto	<a href="http://ophid.utoronto.ca/navigator/">http://ophid.utoronto.ca/navigator/</a>

**miRNA**

RNA Molecular Biology Tuschl Lab	<a href="http://www.rockefeller.edu/labheads/tuschl/">http://www.rockefeller.edu/labheads/tuschl/</a>
miRBASE microRNA database Sanger Institute	<a href="http://www.mirbase.org/">http://www.mirbase.org/</a>
Rfam RNA families database of alignments and CMs Sanger Institute	<a href="http://www.sanger.ac.uk/resources/databases/rfam.html">http://www.sanger.ac.uk/resources/databases/rfam.html</a>
The siRNA user guide - Tuschl Lab	<a href="http://www.rockefeller.edu/labheads/tuschl/sirna.html">http://www.rockefeller.edu/labheads/tuschl/sirna.html</a>
microRNA.org: A resource for predicted microRNA targets and expression	<a href="http://www.microrna.org/">http://www.microrna.org/</a>
OligoWalk Web Server for siRNA design	<a href="http://rna.urmc.rochester.edu/cgi-bin/server_exe/oligowalk/oligowalk_form.cgi">http://rna.urmc.rochester.edu/cgi-bin/server_exe/oligowalk/oligowalk_form.cgi</a>
AsiDesigner siRNA design pipeline	<a href="http://sysbio.kribb.re.kr:8080/AsiDesigner/menuDesigner.jsf">http://sysbio.kribb.re.kr:8080/AsiDesigner/menuDesigner.jsf</a>

## Systems Biology

### System Biology Information Resources

BioModels.NET	<a href="http://www.biomodels.net/">http://www.biomodels.net/</a>
The Reactome Project	<a href="http://www.reactome.org/">http://www.reactome.org/</a>
Panther Classification Systems - Panther Pathways	<a href="http://www.pantherdb.org/pathway/">http://www.pantherdb.org/pathway/</a>
Human Metabolome Database	<a href="http://www.hmdb.ca">http://www.hmdb.ca</a>
KDBI - Kinetic Data of Biomolecular Interactions	<a href="http://xin.cz3.nus.edu.sg/group/kdbi/kdbi.asp">http://xin.cz3.nus.edu.sg/group/kdbi/kdbi.asp</a>
SBML Systems Biology Markup Language	<a href="http://sbml.org/index.psp">http://sbml.org/index.psp</a>
SBGN Systems Biology Graphical Notation Standardization	<a href="http://sbgn.org/">http://sbgn.org/</a>
The International Society for Systems Biology	<a href="http://issb.org/">http://issb.org/</a>
Systems Biology Portal <a href="http://www.systems-biology.org">www.systems-biology.org</a>	<a href="http://www.systems-biology.org/">http://www.systems-biology.org/</a>
The Systems Biology Institute - Tokyo	<a href="http://sbi.jp/">http://sbi.jp/</a>
US National Centers for System Biology	<a href="http://www.nigms.nih.gov/Initiatives/SysBio/">http://www.nigms.nih.gov/Initiatives/SysBio/</a>
Systems Biology at UC San Diego	<a href="http://systemsbiology.ucsd.edu/">http://systemsbiology.ucsd.edu/</a>
Systems Biology in Germany	<a href="http://www.systembiologie.de/">http://www.systembiologie.de/</a>
HepatoSys - Network Systems Biology	<a href="http://www.hepatosys.de/">http://www.hepatosys.de/</a>
SystemsX - The Swiss Initiative in Systems Biology	<a href="http://www.systemsx.ch/">http://www.systemsx.ch/</a>
YSBN The Yeast Systems Biology Network	<a href="http://www.gmm.gu.se/YSBN/">http://www.gmm.gu.se/YSBN/</a>
Nature web focus: Systems biology: a user's guide	<a href="http://www.nature.com/focus/systemsbiologyuserguide/index.html">http://www.nature.com/focus/systemsbiologyuserguide/index.html</a>
Systems Biology Wikipedia	<a href="http://en.wikipedia.org/wiki/Systems_biology">http://en.wikipedia.org/wiki/Systems_biology</a>

### Systems Biology Modeling Tools

Systems Biology WorkBench SBW package	<a href="http://sbw.kgi.edu/research/sbwIntro.htm">http://sbw.kgi.edu/research/sbwIntro.htm</a>
JDesigner: A Biochemical Network Layout Tool	<a href="http://sbw.kgi.edu/software/jdesigner.htm">http://sbw.kgi.edu/software/jdesigner.htm</a>
Jarnac biochemical simulation package	<a href="http://sbw.kgi.edu/software/jarnac.htm">http://sbw.kgi.edu/software/jarnac.htm</a>
Pasadena Twain ODE solver of the SWB package	<a href="http://sbw.sourceforge.net/sbw/software/">http://sbw.sourceforge.net/sbw/software/</a>
CADLIVE - network construction system	<a href="http://www.cadlive.jp/">http://www.cadlive.jp/</a>
Dizzy stochastic simulations tool	<a href="http://magnet.systemsbiology.net/software/Dizzy/">http://magnet.systemsbiology.net/software/Dizzy/</a>
CellDesigner - a modeling tool for biochemical networks	<a href="http://www.celldesigner.org/">http://www.celldesigner.org/</a>
SBMLsqueezer: A CellDesigner plug-in to generate kinetic rate equations for biochemical networks	<a href="http://www.biomedcentral.com/1752-0509/2/39">http://www.biomedcentral.com/1752-0509/2/39</a>
Cellware - Modeling and Simulation Tool	<a href="http://www.bii.a-star.edu.sg/achievements/applications/cellware/">http://www.bii.a-star.edu.sg/achievements/applications/cellware/</a>
E-Cell project	<a href="http://www.e-cell.org/">http://www.e-cell.org/</a>
COPASI - Complex Pathway Simulator	<a href="http://www.copasi.org/">http://www.copasi.org/</a>
Gepasi - Biochemical Kinetics Simulator	<a href="http://www.gepasi.org/">http://www.gepasi.org/</a>
Dynetica - a simulator of dynamic networks	<a href="http://www.duke.edu/~you/Dynetica_page.htm">http://www.duke.edu/~you/Dynetica_page.htm</a>
JSim - a Java based simulation system	<a href="http://nsr.bioeng.washington.edu/jsim/">http://nsr.bioeng.washington.edu/jsim/</a>
STOCKS - Stochastic kinetic simulations	<a href="http://www.sysbio.pl/stocks/index.html">http://www.sysbio.pl/stocks/index.html</a>
Basis Gillespie Stochastic Simulator	<a href="http://www.basis.ncl.ac.uk/Software.html">http://www.basis.ncl.ac.uk/Software.html</a>
CaliBayes - Bayesian calibration of biological simulators	<a href="http://www.calibayes.ncl.ac.uk/">http://www.calibayes.ncl.ac.uk/</a>
JWS Online - Online Cellular Systems Modelling	<a href="http://jji.bio.vu.nl/index.html">http://jji.bio.vu.nl/index.html</a>
PyBioS - web server for modeling and simulation of cellular systems	<a href="http://pybios.molgen.mpg.de/">http://pybios.molgen.mpg.de/</a>
Virtual Cell Internet simulation server at NRCAM	<a href="http://www.nrcam.uchc.edu/">http://www.nrcam.uchc.edu/</a>

## Internet search

### Search engines

Google	<a href="http://www.google.com">http://www.google.com</a>
Bing	<a href="http://www.bing.com/">http://www.bing.com/</a>
AltaVista	<a href="http://de.altavista.com/">http://de.altavista.com/</a>
Yahoo!	<a href="http://de.yahoo.com/">http://de.yahoo.com/</a>
Wolfram alpha	<a href="http://www.wolframalpha.com/">http://www.wolframalpha.com/</a>
WebCrawler	<a href="http://webcrawler.com/">http://webcrawler.com/</a>
MetaGer	<a href="http://meta.rzrn.uni-hannover.de/">http://meta.rzrn.uni-hannover.de/</a>
CUSI - Suchmoeglichkeiten im Internet	<a href="http://www.tu-chemnitz.de/misc/cusi.html">http://www.tu-chemnitz.de/misc/cusi.html</a>
W3 Search Engines FU Berlin	<a href="http://www.chemie.fu-berlin.de/outerspace/meta-index.html">http://www.chemie.fu-berlin.de/outerspace/meta-index.html</a>

### Link lists

Expasy	<a href="http://www.expasy.org/">http://www.expasy.org/</a>
Expasy Life Science Directory	<a href="http://www.expasy.org/links.html">http://www.expasy.org/links.html</a>
Bioinformatics Links Directory UBiC	<a href="http://bioinformatics.ca/links_directory/">http://bioinformatics.ca/links_directory/</a>
HSLs: OBRC: Online Bioinformatics Resources Collection	<a href="http://www.hsls.pitt.edu/guides/genetics/obrc">http://www.hsls.pitt.edu/guides/genetics/obrc</a>
Nucleic Acids Research Database Summary Paper List	<a href="http://www3.oup.co.uk/nar/database/a/">http://www3.oup.co.uk/nar/database/a/</a>
Nucleic Acids Research Database Issue 2011	<a href="http://nar.oxfordjournals.org/content/39/suppl_1">http://nar.oxfordjournals.org/content/39/suppl_1</a>
Nucleic Acids Research Database Issue 2010	<a href="http://nar.oxfordjournals.org/content/38/suppl_1">http://nar.oxfordjournals.org/content/38/suppl_1</a>
Nucleic Acids Research Webserver Issue 2011	<a href="http://nar.oxfordjournals.org/content/39/suppl_2">http://nar.oxfordjournals.org/content/39/suppl_2</a>
Nucleic Acids Research Webserver Issue 2010	<a href="http://nar.oxfordjournals.org/content/38/suppl_2">http://nar.oxfordjournals.org/content/38/suppl_2</a>
CMS Molecular Biology Resource	<a href="http://mbcf.dfci.harvard.edu/cmsmbr/">http://mbcf.dfci.harvard.edu/cmsmbr/</a>
Harvard Dept of MCB - Biology Links	<a href="http://mcb.harvard.edu/BioLinks.html">http://mcb.harvard.edu/BioLinks.html</a>
CiteULike - online reference management sharing service	<a href="http://www.citeulike.org/">http://www.citeulike.org/</a>
Connotea - online reference and link sharing	<a href="http://www.connotea.org/">http://www.connotea.org/</a>
del.icio.us social bookmarking	<a href="http://del.icio.us/">http://del.icio.us/</a>
Biotech Europe Link Base	<a href="http://www.biotech-europe.de/rubric/linkbase/index.html">http://www.biotech-europe.de/rubric/linkbase/index.html</a>

### Internet

Connected: An Internet Encyclopedia	<a href="http://freesoft.org/CIE/index.htm">http://freesoft.org/CIE/index.htm</a>
RSS Tutorial for Content Publishers and Webmasters	<a href="http://www.mnot.net/rss/tutorial/">http://www.mnot.net/rss/tutorial/</a>

### Neural networks

SNNS Stuttgarter Neural Network Simulator	<a href="http://www-ra.informatik.uni-tuebingen.de/software/snns/welcome_e.html">http://www-ra.informatik.uni-tuebingen.de/software/snns/welcome_e.html</a>
SNNS Download	<a href="http://www.ra.cs.uni-tuebingen.de/SNNS/">http://www.ra.cs.uni-tuebingen.de/SNNS/</a>
Java-NNS University of Tuebingen	<a href="http://www-ra.informatik.uni-tuebingen.de/software/JavaNNS/welcome_e.html">http://www-ra.informatik.uni-tuebingen.de/software/JavaNNS/welcome_e.html</a>
Java-NNS Download	<a href="http://www-ra.informatik.uni-tuebingen.de/downloads/JavaNNS/">http://www-ra.informatik.uni-tuebingen.de/downloads/JavaNNS/</a>

### Books

Bioinformatics (Mount) CSHL Press	<a href="http://www.cshlpress.com/default.tpl?action=full&amp;--eqskudatarq=466">http://www.cshlpress.com/default.tpl?action=full&amp;--eqskudatarq=466</a>
Bioinformatics Baxevanis Ouellette Francis Wiley-VCH Ch. 5	<a href="http://www.wiley-vch.de/publish/en/books/bySubjectL.S00/bySubSubjectL.S70/0-471-47878-4/">http://www.wiley-vch.de/publish/en/books/bySubjectL.S00/bySubSubjectL.S70/0-471-47878-4/</a>
Beginning Perl for Bioinformatics (Tisdall) O'Reilly	<a href="http://www.oreilly.com/catalog/begger/bio/">http://www.oreilly.com/catalog/begger/bio/</a>
Mastering Perl for Bioinformatics (Tisdall) O'Reilly	<a href="http://www.oreilly.com/catalog/mperl/bio/">http://www.oreilly.com/catalog/mperl/bio/</a>
Angewandte Bioinformatik (Selzer Marhoefer Rohwer) - Springer	<a href="http://www.springer.com/west/home/generic/order?SGWID=4-40110-22-2317982-0">http://www.springer.com/west/home/generic/order?SGWID=4-40110-22-2317982-0</a>
Bioinformatik Interaktiv (Merkel, Waack) Wiley-Blackwell	<a href="http://www.wiley-vch.de/publish/dt/books/bySubjectL.S00/bySubSubjectL.S69/3-527-32594-8/?sID=3mkeuksb2ansqu9u8ll3n1ssq4">http://www.wiley-vch.de/publish/dt/books/bySubjectL.S00/bySubSubjectL.S69/3-527-32594-8/?sID=3mkeuksb2ansqu9u8ll3n1ssq4</a>
Bioanalytik (Lottspeich Engels Joachim) Elsevier	<a href="http://www.bioanalytik.net/">http://www.bioanalytik.net/</a>
Systems Biology: A Textbook (Wiley)	<a href="http://eu.wiley.com/WileyCDA/WileyTitle/productCd-3527318747.html">http://eu.wiley.com/WileyCDA/WileyTitle/productCd-3527318747.html</a>
Bioinformatics and Computational Biology Solutions Using R and Bioconductor	<a href="http://www.springerlink.com/content/u014612g263032jk/">http://www.springerlink.com/content/u014612g263032jk/</a>
Bioconductor Case Studies (Springer)	<a href="http://www.springer.com/statistics/stats+life+sci/book/978-0-387-77239-4">http://www.springer.com/statistics/stats+life+sci/book/978-0-387-77239-4</a>
R Programming for Bioinformatics (CRC Press)	<a href="http://crcpress.com/shopping_cart/products/product_detail.asp?sku=C6367">http://crcpress.com/shopping_cart/products/product_detail.asp?sku=C6367</a>
BLAST - (Korf, Yandell, Bedell) O'Reilly	<a href="http://www.oreilly.com/catalog/blast/">http://www.oreilly.com/catalog/blast/</a>
Sequence Analysis in a Nutshell (Markel Leon) O'Reilly	<a href="http://www.oreilly.com/catalog/seqanalyan/">http://www.oreilly.com/catalog/seqanalyan/</a>

## The bioinformatics bench

### Linux

Ubuntu Linux	<a href="http://www.ubuntu.com/">http://www.ubuntu.com/</a>
Debian Linux	<a href="http://www.debian.org/">http://www.debian.org/</a>
Open SUSE Linux	<a href="http://en.opensuse.org/">http://en.opensuse.org/</a>
Professional SUSE Linux	<a href="http://www.suse.com/">http://www.suse.com/</a>
Fedora Project	<a href="http://fedoraproject.org/">http://fedoraproject.org/</a>
RedHat Linux	<a href="http://www.redhat.com/">http://www.redhat.com/</a>
Linux Kernel Archives	<a href="http://www.kernel.org/">http://www.kernel.org/</a>
BioLinux - Wikipedia	<a href="http://en.wikipedia.org/wiki/BioLinux">http://en.wikipedia.org/wiki/BioLinux</a>
Knoppix	<a href="http://www.knopper.net/knoppix/index-en.html">http://www.knopper.net/knoppix/index-en.html</a>
BioKnoppix	<a href="http://bioknoppix.hpcf.upr.edu/">http://bioknoppix.hpcf.upr.edu/</a>
EMBNET A QuickGuide to UNIX	<a href="http://www.embnnet.org/node/64">http://www.embnnet.org/node/64</a>
Linux Community (German)	<a href="http://www.linux-community.de/">http://www.linux-community.de/</a>
linux.de	<a href="http://www.linux.de/">http://www.linux.de/</a>

### LAMP and WAMP

LAMP Wikipedia.de	<a href="http://de.wikipedia.org/wiki/LAMP">http://de.wikipedia.org/wiki/LAMP</a>
LAMP Wikipedia.en	<a href="http://en.wikipedia.org/wiki/LAMP_(software_bundle)">http://en.wikipedia.org/wiki/LAMP_(software_bundle)</a>
Comparison of WAMPs	<a href="http://en.wikipedia.org/wiki/Comparison_of_WAMPs">http://en.wikipedia.org/wiki/Comparison_of_WAMPs</a>
XAMPP	<a href="http://www.apachefriends.org/de/xampp.html">http://www.apachefriends.org/de/xampp.html</a>

### Apache + HTML

Apache	<a href="http://www.apache.org/">http://www.apache.org/</a>
SELFHTML	<a href="http://selfhtml.org/">http://selfhtml.org/</a>

### MySQL

MySQL	<a href="http://dev.mysql.com/">http://dev.mysql.com/</a>
MySQL Community Server Download	<a href="http://dev.mysql.com/downloads/">http://dev.mysql.com/downloads/</a>
MySQL Workbench Download	<a href="http://dev.mysql.com/downloads/workbench/">http://dev.mysql.com/downloads/workbench/</a>
MySQL GUI Tools Download	<a href="http://dev.mysql.com/downloads/gui-tools/5.0.html">http://dev.mysql.com/downloads/gui-tools/5.0.html</a>
MySQL reference manual	<a href="http://dev.mysql.com/doc/refman/5.1/en/index.html">http://dev.mysql.com/doc/refman/5.1/en/index.html</a>

### PHP

PHP	<a href="http://www.php.net/">http://www.php.net/</a>
SELFPHP	<a href="http://www.selfphp.info/">http://www.selfphp.info/</a>
phpMyAdmin	<a href="http://sourceforge.net/projects/phpmyadmin/">http://sourceforge.net/projects/phpmyadmin/</a>
php-homepage.de - Resource fuer PHP und MySQL	<a href="http://www.php-homepage.de/">http://www.php-homepage.de/</a>
PHP-Archiv - PHP Scripts	<a href="http://www.phparchiv.de/">http://www.phparchiv.de/</a>

### Perl

Perl	<a href="http://www.perl.com/">http://www.perl.com/</a>
The Perl directory at perl.org	<a href="http://www.perl.org/">http://www.perl.org/</a>
Perl documentation	<a href="http://perldoc.perl.org/">http://perldoc.perl.org/</a>
Perl Download	<a href="http://www.perl.org/get.html">http://www.perl.org/get.html</a>
ActiveState - ActivePerl Downloads	<a href="http://www.activestate.com/Products/ActivePerl/">http://www.activestate.com/Products/ActivePerl/</a>
Strawberry Perl for Windows	<a href="http://strawberryperl.com/">http://strawberryperl.com/</a>
CPAN PERL Script Archiv	<a href="http://www.cpan.org/">http://www.cpan.org/</a>
Bioperl	<a href="http://bio.perl.org/">http://bio.perl.org/</a>
Installing Bioperl on Windows - BioPerl	<a href="http://www.bioperl.org/wiki/Installing_Bioperl_on_Windows">http://www.bioperl.org/wiki/Installing_Bioperl_on_Windows</a>
EMBNET QuickGuides PERL and Regular Expressions	<a href="http://www.embnnet.org/node/64">http://www.embnnet.org/node/64</a>

## R and BioConductor

<a href="http://www.r-project.org/">The R project for statistical computing</a>	<a href="http://www.r-project.org/">http://www.r-project.org/</a>
The Comprehensive R archive network	<a href="http://cran.r-project.org/">http://cran.r-project.org/</a>
<a href="http://www.bioconductor.org/">BioConductor Project - Open Source Software for Bioinformatics</a>	<a href="http://www.bioconductor.org/">http://www.bioconductor.org/</a>
R and Bioconductor Manual (Thomas Girke)	<a href="http://manuals.bioinformatics.ucr.edu/home/R_BioCondManual">http://manuals.bioinformatics.ucr.edu/home/R_BioCondManual</a>
useR! 2011 R user conference Warwick, UK	<a href="http://www.warwick.ac.uk/statsdept/user-2011/">http://www.warwick.ac.uk/statsdept/user-2011/</a>
useR! 2010 R user conference Gaithersburg, Maryland	<a href="http://user2010.org/">http://user2010.org/</a>

## Editors

The Vim Editor	<a href="http://www.vim.org/">http://www.vim.org/</a>
Proton	<a href="http://www.computerbase.de/downloads/software/entwicklung/proton/">http://www.computerbase.de/downloads/software/entwicklung/proton/</a>
Komodo	<a href="http://www.activestate.com/Products/komodo_edit/">http://www.activestate.com/Products/komodo_edit/</a>

## Laboratory tools

WETLAB: an open source electronic lab notebook	<a href="http://arrowsmith.psych.uic.edu/arrowsmith_uic/wetlab.html">http://arrowsmith.psych.uic.edu/arrowsmith_uic/wetlab.html</a>
PHP Labware Project	<a href="http://bioinformatics.org/phplabware/labwiki/index.php">http://bioinformatics.org/phplabware/labwiki/index.php</a>
OpenFreezer	<a href="http://openfreezer.org/">http://openfreezer.org/</a>

## EMBOSS

<a href="http://emboss.open-bio.org/">EMBOSS</a>	<a href="http://emboss.open-bio.org/">http://emboss.open-bio.org/</a>
EMBOSS wiki	<a href="http://emboss.open-bio.org/wiki/">http://emboss.open-bio.org/wiki/</a>
<a href="http://emboss.open-bio.org/wiki/Appdocs">EMBOSS application wiki</a>	<a href="http://emboss.open-bio.org/wiki/Appdocs">http://emboss.open-bio.org/wiki/Appdocs</a>
<a href="http://emboss.sourceforge.net/apps/release/6.4/emboss/apps/index.html">EMBOSS applications</a>	<a href="http://emboss.sourceforge.net/apps/release/6.4/emboss/apps/index.html">http://emboss.sourceforge.net/apps/release/6.4/emboss/apps/index.html</a>
EMBOSS applications program groups	<a href="http://emboss.sourceforge.net/apps/release/6.4/emboss/apps/groups.html">http://emboss.sourceforge.net/apps/release/6.4/emboss/apps/groups.html</a>
EMBOSS for Windows	<a href="ftp://emboss.open-bio.org/pub/EMBOSS/windows/">ftp://emboss.open-bio.org/pub/EMBOSS/windows/</a>
<a href="http://emboss.open-bio.org/html/use/index.html">EMBOSS Users Guide</a>	<a href="http://emboss.open-bio.org/html/use/index.html">http://emboss.open-bio.org/html/use/index.html</a>
EMBOSS Developers Guide	<a href="http://emboss.open-bio.org/html/dev/index.html">http://emboss.open-bio.org/html/dev/index.html</a>
EMBOSS Administrators Guide	<a href="http://emboss.open-bio.org/html/adm/index.html">http://emboss.open-bio.org/html/adm/index.html</a>
EMBOSS user documentation	<a href="http://emboss.sourceforge.net/docs/">http://emboss.sourceforge.net/docs/</a>
EMBOSS FAQ	<a href="http://emboss.sourceforge.net/docs/faq.html">http://emboss.sourceforge.net/docs/faq.html</a>
EMBOSS Main Tutorial	<a href="http://emboss.sourceforge.net/docs/emboss_tutorial/emboss_tutorial.html">http://emboss.sourceforge.net/docs/emboss_tutorial/emboss_tutorial.html</a>
EMBOSS mailing lists	<a href="http://emboss.sourceforge.net/support/#usermail">http://emboss.sourceforge.net/support/#usermail</a>
EmbNet EMBOSS and wEMBOSS Quick Guides	<a href="http://www.embnet.org/node/64">http://www.embnet.org/node/64</a>
JEMBOSS	<a href="http://emboss.sourceforge.net/Jemboss/">http://emboss.sourceforge.net/Jemboss/</a>
wEMBOSS	<a href="http://wemboss.sourceforge.net/">http://wemboss.sourceforge.net/</a>
Public SRS installations   Biowisdom	<a href="http://downloads.biowisdomsrs.com/publicsrs.html">http://downloads.biowisdomsrs.com/publicsrs.html</a>

## NCBI BLAST software

<a href="http://en.wikipedia.org/wiki/BLAST">BLAST Wikipedia</a>	<a href="http://en.wikipedia.org/wiki/BLAST">http://en.wikipedia.org/wiki/BLAST</a>
<a href="http://www.ncbi.nlm.nih.gov/staff/tao/URLAPI/pc_setup.html">BLAST setup procedure for Windows</a>	<a href="http://www.ncbi.nlm.nih.gov/staff/tao/URLAPI/pc_setup.html">http://www.ncbi.nlm.nih.gov/staff/tao/URLAPI/pc_setup.html</a>
<a href="ftp://ftp.ncbi.nih.gov/blast/executables/">NCBI BLAST download</a>	<a href="ftp://ftp.ncbi.nih.gov/blast/executables/">ftp://ftp.ncbi.nih.gov/blast/executables/</a>
BLAST FASTA databases download	<a href="ftp://ftp.ncbi.nih.gov/blast/db/FASTA/">ftp://ftp.ncbi.nih.gov/blast/db/FASTA/</a>
BLAST standalone documentation	<a href="ftp://ftp.ncbi.nih.gov/blast/documents">ftp://ftp.ncbi.nih.gov/blast/documents</a>

## Open Source Bioinformatics Platforms

<a href="http://galaxy.psu.edu/">Galaxy bioinformatics framework</a>	<a href="http://galaxy.psu.edu/">http://galaxy.psu.edu/</a>
myGRID - Open Source Middleware Environment for Bioinformatics Workflows	<a href="http://www.mygrid.org.uk/">http://www.mygrid.org.uk/</a>
<a href="http://taverna.sourceforge.net/">TAVERNA Open Source Bioinformatics Workbench</a>	<a href="http://taverna.sourceforge.net/">http://taverna.sourceforge.net/</a>
eFamily Project - Grid integrating of protein database annotations	<a href="http://www.efamily.org.uk/">http://www.efamily.org.uk/</a>
Bioclipse - visual platform for structural chemo- and bioinformatics	<a href="http://www.bioclipse.net/">http://www.bioclipse.net/</a>
<a href="http://sbw.kgi.edu/research/sbwIntro.htm">Systems Biology WorkBench SWB package</a>	<a href="http://sbw.kgi.edu/research/sbwIntro.htm">http://sbw.kgi.edu/research/sbwIntro.htm</a>
<a href="http://bioweb2.pasteur.fr/projects/mobyle/what_is_mobyle.html">Mobyle web environment for bioinformatics workflows</a>	<a href="http://bioweb2.pasteur.fr/projects/mobyle/what_is_mobyle.html">http://bioweb2.pasteur.fr/projects/mobyle/what_is_mobyle.html</a>
Chinook P2P Bioinformatics Platform	<a href="http://www.bcgsc.bc.ca/chinook/">http://www.bcgsc.bc.ca/chinook/</a>
Gaggle data management framework	<a href="http://www.systemsbiology.org/Technology/Data_Management/Gaggle">http://www.systemsbiology.org/Technology/Data_Management/Gaggle</a>