

ELECTROPHORESIS

**Supporting Information
for Electrophoresis**

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**Transforming omics data into context:
Bioinformatics on genomics and proteomics raw data**

Supplementary Table 1

The following Table provides names, web- and scientific references for databases and computational tools addressed in this review.

Genomics and proteomics databases		
ArrayExpress	www.ebi.ac.uk/arrayexpress/	Brazma 2003
GEO	www.ncbi.nlm.nih.gov/geo/	Edgar 2002
SMD	genome-www5.stanford.edu/	Gollub 2003
Genbank	www.ncbi.nlm.nih.gov/	Benson 2006
Swissprot	www.expasy.org/sprot/	Bairoch 2004
Data normalization and preprocessing tools		
MAS 5.0	www.affymetrix.com/products/software/specific/mas.affx	Affymetrix 2001
dCHIP	www.dchip.org	Li 2001
RMA	stat-www.berkeley.edu/users/bolstad/RMAExpress/RMAExpress.html	Irizarry 2003
Unsupervised and supervised data analysis tools		
Cluster/Treeview	rana.lbl.gov/EisenSoftware.htm	Eisen 1998
MeV	tm4.org/mev.html	Saeed 2003
Bioconductor	www.bioconductor.org	Dudoit 2003
Cluster	bonsai.ims.u-tokyo.ac.jp/~mdehoon/software/cluster	de Hoon 2004
Genesis	genome.tugraz.at/Software	Sturn 2002
SAM	www-stat.stanford.edu/~tibs/SAM	Tusher 2001
dChip	www.dchip.org	Li 2001
R	www.r-project.org/	Ihaka 1996
Promoter motif search routines		
MATCH	www.gene-regulation.com/cgi-bin/pub/programs/match/bin/match.cgi	Kel 2003
MatInspector	www.genomatix.de/cgi-bin/matinspector/matinspector.pl	Quandt 1995; Cartharius 2005
TFBS perl module	forkhead.cgb.ki.se/TFBS	Lenhard 2002
Promoter module detection routines		
CREME	creme.dcode.org	Sharan 2003
Toucan	homes.esat.kuleuven.be/~saerts/software/toucan.php	Aerts 2004
GAnalyzer	www.meduniwien.ac.at/nephrogene/data/promoter/	Perco 2005
Phylogenetic footprinting routines		
Footprinter	wingless.cs.washington.edu/htbin-post/unrestricted/FootPrinterWeb/FootPrinterInput2.pl	Blanchette 2002; Blanchette 2003
ConSite	mordor.cgb.ki.se/cgi-bin/CONSITE/consite	Sandelin 2004
rVista	rvista.dcode.org	Loots 2004
CisOrtho	dev.wormbase.org/cisortho	Bigelow 2004
Promoter motif databases		
JASPAR	jaspar.cgb.ki.se/cgi-bin/jaspar_db.pl	Sandelin 2004
TRANSFAC	www.gene-regulation.com/pub/databases.html	Matys 2003
EPD	www.epd.isb-sib.ch	Perier 1999; Praz 2002
oPOSSUM	www.cisreg.ca/cgi-bin/oPOSSUM/opossum	Ho Sui 2005

CORG	corg.molgen.mpg.de	Dieterich 2003; Dieterich 2005
MAPPER	mapper.chip.org	Marinescu 2005
Ontologies		
Onto-Express	vortex.cs.wayne.edu/Projects.html	Khatri 2002
SOURCE	genome-www5.stanford.edu/cgi-bin/source/sourceSearch	Diehn 2003
GeneMerge	www.oeb.harvard.edu/hartl/lab/publications/GeneMerge/GeneMerge.html	Castillo-Davis 2003
GoMiner	discover.nci.nih.gov/gominer	Zeeberg 2003
FatiGO	fatigo.org	Al-Shahrour 2004
GFinder	www.medinfopoli.polimi.it/GFINDER	Masseroli 2004
Gostat	gostat.wehi.edu.au	Beissbarth 2004
GoToolBox	crfb.univ-mrs.fr/GOToolBox/index.php	Martin 2004
GO::TermFinder	search.cpan.org/dist/GO-TermFinder	Boyle 2004
OntologyTraverser	franklin.imgen.bcm.tmc.edu/rho/services/OntologyTraverser	Young 2005
Protein pathway databases		
KEGG	www.genome.ad.jp/kegg/pathway.html	Kanehisa 2002
BioCarta	www.biocarta.com/genes/index.asp	-
PANTHER	panther.appliedbiosystems.com/pathway	Mi 2005
SPAD	www.grt.kyushu-u.ac.jp/spad	-
Reactome	www.reactome.org	Joshi-Tope 2005
Protein-protein interaction databases		
DIP	dip.doe-mbi.ucla.edu	Xenarios 2000; Salwinski 2004
MINT	mint.bio.uniroma2.it/mint	Zanzoni 2002
BIND	www.bind.ca/Action	Bader 2003
IntAct	www.ebi.ac.uk/intact	Hermjakob 2004
HPRD	hprd.org	Peri 2004
OPHID	ophid.utoronto.ca/ophid	Brown 2005
Cytoscape	cytoscape.org	Shannon 2003
Osprey	biodata.mshri.on.ca/osprey	Breitkreutz 2004
VisAnt	visant.bu.edu	Hu 2005
PubGene	www.pubgene.org	Jenssen 2001
iHOP	www.ihop-net.org/UniPub/iHOP	Hoffmann 2004
CoPub Mapper	www.bioasp.nl/	Alako 2005
Agilent Lit. Search	agilent.com/labs/research/mtl/projects/sysbio/sysinformatics/litsearch.html	Vailaya 2005
Protein motif identification routines		
Cello	cello.life.nctu.edu.tw	Yu 2004
ChloroP	www.cbs.dtu.dk/services/ChloroP	Emanuelsson 1999
ESLpred	www.imtech.res.in/raghava/eslpred	Bhasin 2004
PSLpred	www.imtech.res.in/raghava/pslpred	Bhasin 2005
iPSORT	hc.ims.u-tokyo.ac.jp/iPSORT	Bannai 2002
MITOPRED	bioinformatics.albany.edu/~mitopred/	Guda 2004
MitoProt	ihg.gsf.de/ihg/mitoprot.html	Claros 1996
NNPSL	predict.sanger.ac.uk/nnpsl/	Reinhardt 1998
PLOC	www.genome.ad.jp/SIT/plocdir/	Park 2003
predictNLS	cubic.bioc.columbia.edu/predictNLS	Cokol 2000

Predotar	genoplante-info.infobiogen.fr/predotar	Small 2004
Proteome Analyst	www.cs.ualberta.ca/~bioinfo/PA/	Lu 2004
PSORT	psort.ims.u-tokyo.ac.jp/form.html	Nakai 1992
PSORT II	psort.ims.u-tokyo.ac.jp/form2.html	Horton 1997
PSORT-B	www.psort.org/psortb	Gardy 2004 ; Gardy 2005
SignalP	www.cbs.dtu.dk/services/SignalP	Nielsen 1997
SubLoc	www.bioinfo.tsinghua.edu.cn/SubLoc	Hua 2001
TargetP	www.cbs.dtu.dk/services/TargetP	Emanuelsson 2000
TARGET	bioinformatics.albany.edu/~ptarget	Small 2004
Solvent accessibility prediction routines		
PHDacc	www.embl-heidelberg.de/predictprotein	Rost 1994
SABLE	sable.cchmc.org	Adamczak 2004
RVP-Net	netasa.org/rvp-net	Ahmad 2003
NETASA	netasa.org	Ahmad 2002
SARpred	www.imtech.res.in/raghava/sarpred	Garg 2005
ACCpro	www.igb.uci.edu/tools/scratch	Pollastri 2002
Post-translational modification site prediction routines		
NetAcet	www.cbs.dtu.dk/services/NetAcet	Kiemer 2005
NetOGlyc	www.cbs.dtu.dk/services/NetOGlyc	Julenius 2005
NetNGlyc	www.cbs.dtu.dk/services/NetNGlyc	Gupta, in prep.
DictyOGlyc	www.cbs.dtu.dk/services/DictyOGlyc	Gupta 1999
YinOYang	www.cbs.dtu.dk/services/YinOYang	Gupta, in prep.
GPI-SOM	gpi.unibe.ch	Frankhauser, submitted
Myristoylator	www.expasy.org/tools/myristoylator	Bologna, in press
NetPhos	www.cbs.dtu.dk/services/NetPhos	Blom 1999
NetPicoRNA	www.cbs.dtu.dk/services/NetPicoRNA	Blom 1996
NMT	mendel.imp.univie.ac.at/myristate/SUPLpredictor.htm	Eisenhaber 2003
Sulfinator	www.expasy.org/tools/sulfinator	Monigatti 2002
SUMOplot	abgent.com/doc/sumoplot	Timothy 2004
NetCorona	www.cbs.dtu.dk/services/NetCorona	Kiemer 2004
NetPhosK	www.cbs.dtu.dk/services/NetPhosK	Blom 2004
ProP	www.cbs.dtu.dk/services/ProP	Duckert 2004
ScanProsite	www.expasy.ch/tools/scanprosite	Gattiker 2002
Protein 2D structure prediction routines		
AGADIR	www.embl-heidelberg.de/Services/serrano/agadir/agadir-start.html	Muñoz 1994
APSSP	imtech.res.in/raghava/apssp	Raghava 2000
GOR	abs.cit.nih.gov/gor	Garnier 1978
HNN	npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=npsa_nn.html	Guermeur 1997
Jpred	www.compbio.dundee.ac.uk/~www-jpred	Cuff 1998
JUFO	jens-meiler.de/jufo.html	Meiler 2002
nnPredict	www.cmpharm.ucsf.edu/~nomi/nnpredict.html	Kneller 1991
Porter	distill.ucd.ie/porter	Pollastri 2005
Prof	www.aber.ac.uk/~phiwww/prof	Ouali 1999
PSA	bmerc-www.bu.edu/psa/request.htm	Stultz 1993
PSIPRED	bioinf.cs.ucl.ac.uk/psipred	McGuffin 2000
SOPMA	npsa-pbil.ibcp.fr/cgi-bin/npsa_automat.pl?page=npsa_sopma.html	Geourjon 1995
SSpro	www.igb.uci.edu/tools/scratch	Pollastri 2000

DLP	bio.gsc.riken.go.jp/cgi-bin/DLP/dlp2.cgi	Miyazaki 2002
PREDATOR	bioweb.pasteur.fr/seqanal/interfaces/predator-simple.html	Frishman 1996
NNSSP	bioweb.pasteur.fr/seqanal/interfaces/nnssp-simple.html	Salamov 1995
PHD	www.embl-heidelberg.de/predictprotein/predictprotein.html	Rost 1993
QL	abs.cit.nih.gov/ql2	Di Francesco 1995
PROFsec	www.embl-heidelberg.de/predictprotein	Rost 1993