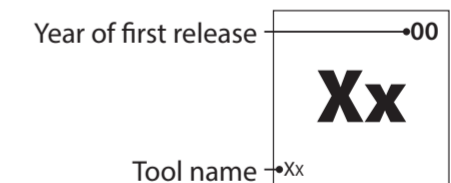


The elements of Bioinformatics

OPEN SOURCE TOOLS

KEY TO TOOL TYPE	
■ Aligners (pairwise)	■ Assemblers Genomic (Long read)
■ Aligners (short read)	■ Assemblers Genomic (Short read)
■ Other Aligners	■ Assemblers (mRNA)
■ Multiple Sequence Aligners	■ Structure Modelling
■ Gene Prediction (mRNA)	■ Gene Prediction (ncRNA)
■ Sequence Tools	■ Database / Warehouse
■ Workflows	■ Genome Browsers
■ ToolKit & APIs	■ Structure Visualisation

Bn BLAST NCBI 90	So SOAP 08																	Py PHYLIP 81	Em EMBOSS 00	Bj BIOJAVA 00	Bc BIOCONDUCTOR 01	Bi BISMARK 10	Ms SWISS-MODEL 03					
Hm HMMER 98	Ma MAQ 07																	Bs BIOSQL 01	Eh EHIVE 00	En ENSEMBL API 00	Br BIOJAVARUBY 00	La LAGAN 03	Mve MAUVE 10	Hh HHRED 05				
Mu MUMMER 99	Bo BOWTIE 08	Cl CLUSTALW 94	Pe PECAN 06	Mi MIRA 97 97	Se SEQCLEAN 04	Jm JMOL 01	Sd SOAP; DE NOVO 09	Un UNIGENE 03	Gl GLIMMER 3 98	Cd CD-HIT 06	Tr TRNASCAN 97	Bm BIO-MART 03	Ta TAVERNA 03	Eb ENSEMBL BROWSER 00	Bp BIOPERL 00	Pl PLINK 07	Sa SAMTOOLS 09	Ps PSIPRED 99										
Ss SSAHA 03	Bw BWA 09	Cf T-COFFEE 00	Pr PRANK 10	Ce CELERA 97	Fo FORGE 09	Rm RASMOL 95	Sg SGA 09	Cu CUFFLINKS 09	Eu EUGENE 99	Fx FASTX-TOOLKIT 09	Rn RNAFOLD 10	In INTERMINE 07	Gx GALAXY 07	Ap APOLLO 02	Ig IGB 04	Ut UTGB 07	Am AMPLICONNOISE 10	Qi QIIME 09										
Ex EXONERATE 05	Bf BFAST 09	Ma MAFFT 02	Mv MAVID 04	Ar ARACHNE 02	Me MERACULOUS 10	Co CORTEX_CON_RP 08	Pa PE-ASSEMBLER 10	Oa OASES 10	Ep ENSEMBL PIPELINE 00	Fq FASTXQC 10	St STRELKA 12	Ch CHADO 10	Kn KNIME 08	Gb GBROWSE 02	Nc NCBI-MAPVIEWER 04	By BIOPYTHON 03	Pic PICARD 09	Vc VCFTOOLS 09										
Fa FASTA 88	Sm SMALT 10	Rs RNA-STAR 12	Pb PROBCONS 05	Ph PHUSION(2) 03	Qu QUAKE 10	Al ALLPATHS-LG 07	Ba BAMBUS 2.09 09	Ty TRINITY 10	Sn SNAP 11	Rk REPEATMASKER 96	Vt VARIANTTOOLS 11	Pd PDP 71	Up UNIPROT 03	Iv IGV 08	Ag ARGO 07	At ARTEMIS 02	As APSAMPLER 05	Ge GENABEL 12										
Ac ACT 05	Ja JALIGNER 10	Gm GMAP/GSNAP 11	Fs FSA 08	Pi PRICE 11	Ve VELVET 07	Sp SPADES 12	Cn CONTRAIL 09	Au AUGUSTUS 09	Mg MGENE 08	Mm METABIOME 09	Jv JALVIEW 04	Ct CATH 97	Tg MISO 12	Da DALLIANCE BROWSER 10	Jb JBROWSE 07	Mb MRBAYES 04	Pn PHASTCONS 04	Ug UGENE 08										
		MI MUSCLE 04	Po PROT PAL 12																	Ji JIGSAW 05	Th TOPHAT 08	Re RSEM 12	Fb FLEXBAR 12	En ENA 12	Pf PFAM 11	Sk SEQMONK 07	Sv SAVANT 10	Tp TRIPPOD XX
																		Dp DENDROPY 10	Nm NESTEDMICA 05	Gk GENBANK 82	Ip INTERPRO 05	Cm CHEMBAL 08	Cb CHEBIv 10	Tm TRANSMART 09				



TOOLS FREE FOR ACADEMICS ONLY

Bl BLAT 02	Vm VMATCH 00	Md MASKERAID 00	Rt RNNOTATOR 11	Av ANNOVAR 11	Fg FGENESH 99	Gn GENSCAN 97	Bh BIOWAREHOUSE 06	Ga GATK 09	Pm PAML 97	Cr CHIMERA 04	DI DALI 03	Pc PCAP 01	Td THREADER 92	Ts TMHMM 98	Tgp TARGETP 07
Cm CROSSMATCH 92	Sh SSAHA2 01	Ab ABYSS 09	Mt MUTECT 13	Mx MEME 03	Mk MAKER 11	Mr MIRDEEP 08	Pro PROSITE 89	Pt PATHWAY TOOLS 08	Sw SRNA WORKBENCH UEA 11	Pm PYMOL 09	No AA 09	Uc UCSC 01	Mo MODELLER 03	Ro ROSETTA 96	Sgp SIGNALP 97

COMMERCIAL TOOLS

Zm ZOOM 08	Ca CASAVA 07	Oz OLIGOZIP 05	Ne NEWBLER 08	Gd GENEDATA 03	It INTEGROMICS 97	Sr SRS 10	Gp GENEPOOL 03	Mh MATCH 99	Mc MASCOT 99	Pp PIPELINE PILOT 10	Gp GENEPLAIN 05	Gs GENESPRING 05	Gu GENIOUS PRO 10	Cb CLC BIO 05	An AVIDASNGS 10	Pk PARTEK 09	Dx PARTEK 09
-------------------------	---------------------------	-----------------------------	----------------------------	-----------------------------	--------------------------------	------------------------	-----------------------------	--------------------------	---------------------------	-----------------------------------	------------------------------	-------------------------------	--------------------------------	----------------------------	------------------------------	---------------------------	---------------------------



#egelements

elements.eaglegenomics.com

This table is distributed under the Creative Commons License. It can be downloaded from our website. © Eagle Genomics Ltd 2012. All rights reserved. Eagle Genomics is a company registered in England and Wales. Company no. 6587071.