The elements of Bioinformatics

eagle genomics®

The **advantage** is clear ™

KEY TO TOOL TYPE

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

OPEN SOURCE TOOLS

Symbol	Year	Name
Bn	90	BLAST NCBI
So	08	SOAP
Hm	98	HMMER
Ma	07	MAQ
Mu	99	MUMMER
Bo	08	BOWTIE
Cl	94	CLUSTALW
Pe	06	PECAN
Mi	97	MIRA 97
Se	04	SEQCLEAN
Jm	01	JMOL
Sd	09	SOAP: DE NOVO
Un	03	UNIGENE
Gl	98	GLIMMER 3
Cd	06	CD-HIT
Tr	97	TRNASCAN
Bm		BIOMART
Ta	03	TAVERNA
Eb		ENSEMBL BROWSER
Bp		BIOPERL
Pl	07	PLINK
Sa	10	SAMTOOLS
Ps	99	PSIPRED
Ss	03	SSAHA
Bw	09	BWA
Cf	00	T-COFFEE
Pr	10	PRANK
Ce	97	CELERA
Fo	09	FORGE
Rm	95	RASMOL
Sg	09	SGA
Cu	09	CUFFLINKS
Eu	99	EUGENE
Fx	09	FASTX-Toolkit
Rn	10	RNAFOLD
In	07	INTERMINE
Gx	07	GALAXY
Ap	02	APOLLO
Ig	04	IGB
Ut	07	UTGB
Am	10	AMPLICONNOISE
Qi	09	QIIME
Ex	05	EXONERATE
Bf	09	BFAST
Ma	02	MAFFT
Mv	04	MAVID
Ar	02	ARACHNE
Me	10	MERACULOUS
Co	08	CORTEX_CON_RP
Pa	10	PE-ASSEMBLER
Oa	10	OASES
Ep	00	ENSEMBL PIPELINE
Fq	10	FastXQC
St	12	STRELKA
Ch	10	CHADO
Kn	08	KNIME
Gb	02	GBROWSE
Nc	04	NCBI-MAPVIEWER
By	03	BIOPYTHON
Pic	09	PICARD
Vc	09	VCFTOOLS
Fa	88	FASTA
Sm	10	SMALT
Rs	12	RNA-STAR
Pb	05	PROBCONS
Ph	03	PHUSION(2)
Qu	11	QUAKE
Al	07	ALLPATHS-LG
Ba	12	BAMBUS 2 09
Ty	10	TRINITY
Sn	11	SNAP
Rk	96	RepeatMasker
Vt	11	VariantTools
Pd	71	PDP
Up	03	UniProt
Iv	12	IGV
Ag	10	ARGO
At	07	ARTEMIS
As	02	APSAMPLER
Ge	12	GenABEL
Ac	05	ACT
Ja	10	JAligner
Gm	11	GMAP/GSNAP
Fs	08	FSA
Pi	11	PRICE
Ve	07	VELVET
Sp	12	SPADES
Cn	09	CONTRAIL
Au	09	AUGUSTUS
Mg	08	MGENE
Mm	09	MetaBiome
Jv	04	JalView
Ct	97	CATH
Tg	12	MISO
Da	10	DALLIANCE BROWSER
Jb	07	JBROWSE
Mb	10	MrBayes
Pn	04	PhastCons
Ug	08	UGENE
Ml	04	MUSCLE
Po	12	PROT PAL
Py	81	PHYLIP
Em	00	EMBOSS
Bj	00	bioJAVA
Bc	01	BIOCONDUCTOR
Bi	10	Bismark
Ms	03	SWISS-MODEL
Bs	01	bioSQL
Eh	00	eHIVE
En	00	ENSEMBL API
Br	00	bioRUBY
La	03	LAGAN
Mve	10	Mauve
Hh	05	HHpred
Ji	05	JIGSAW
Th	08	TopHat
Re	12	RSEM
Fb	12	FlexBar
En	12	ENA
Pf	11	Pfam
Sk	07	SeqMonk
Sv	10	Savant
Tp	XX	TriPod
Dp	10	DendroPy
Nm	05	NestedMICA
Gk	82	GenBank
Ip	05	Interpro
Cm	08	CheMBAL
Cb	10	ChEBIv
Tm	09	tranSMART

TOOLS FREE FOR ACADEMICS ONLY

Symbol	Year	Name
Bl	02	BLAT
Vm	00	VMATCH
Md	00	MaskerAid
Rt	11	Rnnotator
Av	11	ANNOVAR
Fg	99	FGENESH
Gn	97	GENSCAN
Bh	06	BioWAREHOUSE
Ga	09	GATK
Pm	97	PAML
Cr	04	Chimera
Dl	03	Dali
Pc	01	PCAP
Td	92	THREADER
Ts	98	TMHMM
Tgp	07	targetP
Cm	92	CROSSMATCH
Sh	01	SSAHA2
Ab	09	ABYSS
Mt	13	MuTect
Mx	03	MEME
Mk	11	MAKER
Mr	08	miRDEEP
Pro	89	PROSITE
Pt		Pathway Tools
Sw	11	sRNA workbench UEA
Pm		PyMOL
No		AA
Uc	09	UCSC
Mo	01	Modeller
Ro	03	ROSETTA
Sgp	97	signalP

COMMERCIAL TOOLS

Symbol	Year	Name
Zm	08	ZOOM
Ca	07	CASAVA
Oz	05	OLIGOZIP
Ne	03	NEWBLER
Gd	08	GENEDATA
It	03	INTEGROMICS
Sr	97	SRS
Gp	99	GENEPOOL
Mh	10	MATCH
Mc		MASCOT
Pp	99	PIPELINE PILOT
Gp	10	GeneXPlain
Gs	05	GENESPRING
Gu	05	Geneious Pro
Cb	10	CLC BIO
An		AvidaNGS
Pk		PARTEK
Dx		PARTEK

Year of first release → 00
Xx
Tool name → Xx

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