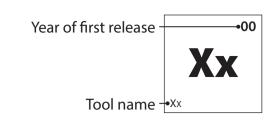


The Elements of Bioinformatics



S	90	08	KEY TO TO	OOL TYPE	_	_	_	_	_					81	00	00	01	10	03
Bn	So	'	Aligne	e rs (pairwise)		Assemblers G	enomic (Long	Gene Pre	rediction (mRNA) Workflows					Py	Em	Bj	Вс	Bi	Ms
BLAST NCBI	SOAP		Aligners (short read) Assemblers Genomic (Short read)					Gene Pro	iene Prediction (ncRNA) Genome Browsers					PHYLIP	EMBOSS	BIOJAVA	BIOCONDUCTOR	BISMARK	SWISS-MODEL
	98	07	Other Aligners Assemblers (mRNA)					Sequenc	Sequence Tools ToolKit & APIs 01					00		00		10	
Hn	Ma		Multiple Sequence Aligners Str			Structure Modelling Databas		ase / Warehouse Structure Visualisation		sation	Bs	Eh	En	Br	La	Mve	Hh		
HMMER	MAQ											BIOSQL		ENSEMBL API	BIORUBY	LAGAN	Mauve	HHPRED	
	99	08	94	06	97	04	01	09	03	98	06	97	03	03	00	00	07	09	99
Mu	I Bo		CI	Pe	Mi	Se	Jm	Sd	Un	GI	Cd	Tr	Bm	Ta	Eb	Вр	PI	Sa	Ps
MUMMER	BOWTIE		USTALW	PECAN	MIRA 97	SEQCLEAN	JMOL	SOAP: DE NOVO	UNIGENE	GLIMMER 3	CD-HIT	TRNASCAN	вюМАRТ	TAVERNA	ENSEMBL BROWSER	BIOPERL	PLINK	SAMTOOLS	PSIPRED
	03	09	00	10	97	09	95	09	09	99	09	10	07	07	02	04	07	10	09
Ss	Bw		Cf	Pr	Ce	Fo	Rm	Sg	Cu	Eu	Fx	Rn	In	Gx	Ap	Ig	Ut	Am	Qi
SSAHA	BWA	T-C	COFFEE	PRANK	CELERA	FORGE	RasMol	SGA	CUFFLINKS	EUGENE	FASTX-TOOLKIT	RNAFOLD	INTERMINE	GALAXY	APOLLO	IGB	UTGB	AmpliconNoise	QIIME
	05	09	02	04	02	10	08	10	10	00	10	97	10	08	02	04	03	09	09
Ex	Bf		Ma	Mv	Ar	Me	Co	Pa	Oa	Ep	Fq	Si	Ch	Kn	Gb	Nc	By	Pic	Vc
EXONERATE	BFAST	МА	AFFT	MAVID	ARACHNE	MERACULOUS	CORTEX_CON_RP	PE-ASSEMBLER	OASES	ENSEMBL PIPELINE	FASTXQC	SIGNALP	CHADO	KNIME	GBROWSE	NCBI-MAPVIEWER	ВюРутном	Picard	VCFTOOLS
	88	10	04	05	03	10	07	09	10	11	96	11	_	03	08	07	02	05	12
Fa	Sm		MI	Pb	Ph	Qu	A	Ba	Ty	Sn	Rk	Vt	Pd	Up	Iv	Ag	At	As	Ge
FASTA	SMALT	MU	JSCLE	PROBCONS	PHUSION(2)	QUAKE	ALLPATHS-LG	BAMBUS 2 09		SNAP	REPEATMASKER	VariantTools	PDP	UniProt	IGV	ARGO	ARTEMIS	APSAMPLER	GENABEL
_	05	12	12	08			09	09	09	08	09	04	97	12	10			04	08
Ac	Rs		Po	Fs	Pi	Ve	Sp	Cn	Au	Mg	Mm	Jv	Ct	Tg	Da	Jb	Mb	Pn	Ug
ACT	RNA-STAR	PRO	OT PAL	FSA	PRICE	VELVET	SPADES	Contrail	AUGUSTUS	MGENE	МетаВіоме	JALVIEW	САТН	MISO	DALLIANCE BROWSER	JBROWSE	MrBayes	PhastCons	UGENE
		11							05	08	12				_				
	Gn	1							Ji	Th	Re	Fb	En	Pf	Sk	Sv			
	GMAP/GSNAI								JIGSAW	Торнат	RSEM	FLEXBAR	ENA	Рғам	SeqMonk	SAVANT			
												82	_	08					
												Gk	l p	Cm	Cb				
												GENBANK	INTERPRO	СнЕМВАL	СнЕВІV				

TOOLS FREE FOR ACADEMICS ONLY

Y	02	00	11	11	99	97	06	09	97	96	04	03	01
	BI	Vm	Rt	Av	Fg	Gn	Bh	Ga	Pm	Ro	Cr	DI	Pc
	BLAT	VMATCH	RNNOTATOR	ANNOVAR	FGENESH	GENSCAN	BioWarehouse		PAML	ROSETTA	CHIMERA		PCAP
	92	01	00	09	11	08	02	08	11	03		09	
	Cm	Sh	Md	Ab	Mk	Mr	Uc	Pt	Sw	Mo	Pm	No	
	CROSSMATCH	SSAHA2	Masker A id	ABYSS	MAKER	MIRDEEP	UCSC	Pathway Tools	SRNA WORKBENCH UEA	Modeller	PyMOL	AA	

COMMERCIAL TOOLS

08		07	11	08	03	97	10	03	03	99		05	05	10	
Zm	Ca	Oz	Ne	Gd	It	Sr	Gp	Mh	Ge	Pp	Gs	Gu	Cb	An	Pk
ZOOM	Casava	OLIGOZIP	NEWBLER	GENEDATA	Integromics	SRS	GENEPOOL	Матсн	GENEXPLAIN	PIPELINE PILOT	GENESPRING	GENEIOUS PRO	CLC BIO	AvidasNGS	Partek



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