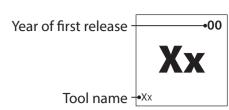


Seagle The Elements of Bioinformatics



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OPEN SOURCE TOOLS	90	08	KEY TO T	OOL TYPE	_	-	_	_	_	-	_			81	00	00	01	10	03
	Bn	So	Align	I ers (pairwise)		Assemblers G	enomic (Long	Gene Pr	ediction (mRNA)	w	orkflows			Py	Em	Bj	Вс	Bi	Ms
	BLAST NCBI	SOAP	Align	I ers (short read)		Assemblers G	enomic (Short	Gene Pr	ediction (ncRNA)	G	enome Brows	ers		PHYLIP	EMBOSS	BIOJAVA	BIOCONDUCTOR	BISMARK	SWISS-MODEL
	98		Othe	r Aligners		Assemblers (m	RNA)	Sequen	ce Tools	To	oolKit & APIs		01	00		00	03		
	Hm	Ma	Multi	iple Sequence	Aligners	Structure Mod	delling	Databas	se / Warehouse	St	ructure Visual	isation	Bs	Eh	En	Br	La	Mve	Hh
	HMMER	MAQ											BIOSQL	EHIVE	ENSEMBL API		LAGAN	Mauve	HHPRED
	99		94	1 06	97	04	01	09	03	98	06	97				00		09	
	Mu	Во	CI	Pe	Mi	Se	Jm	Sd	Un	GI	Cd	Tr	Bm	Ta	Eb	Вр	PI	Sa	Ps
	MUMMER	BOWTIE	CLUSTALW	PECAN	MIRA 97	SEQCLEAN	JMOL	SOAP: DE NOVO		GLIMMER 3	CD-HIT	TRNASCAN	BIOMART	TAVERNA	ENSEMBL BROWSER	BIOPERL	PLINK		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	lg	Ut	Am	Qi
	SSAHA	BWA	T-COFFEE	PRANK	CELERA	FORGE	RasMol	SGA	CUFFLINKS	EUGENE	FASTX-TOOLKIT	RNAFOLD	INTERMINE	GALAXY	APOLLO		UTGB	AmpliconNoise	QIIME
	0		02	2 04	02	10	08	10	10	00	10	12	10			04	03	09	09
	Ex	Bf	Ma	Mv	Ar	Me	Co	Pa	Oa	Ep	Fq	St	Ch	Kn	Gb	Nc	By	Pic	Vc
	EXONERATE	BFAST	MAFFT	MAVID	ARACHNE	MERACULOUS	CORTEX_CON_RP	PE-ASSEMBLER	OASES	ENSEMBL PIPELINE	FASTXQC	STRELKA	CHADO	KNIME	GBROWSE	NCBI-MAPVIEWER	ВюРутном	Picard	VCFTOOLS
	88	10				10	07	09		11			71		_	07	02	05	12
	Fa	Sm	Rs	Pb	Ph	Qu	AI	Ba	Ty	Sn	Rk	Vt	Pd	Up	IV	Ag	At	As	Ge
	FASTA	SMALT	RNA-STAR	PROBCONS	PHUSION(2)	QUAKE	ALLPATHS-LG	BAMBUS 2 09		SNAP	REPEATMASKER		PDP	UNIPROT	IGV		ARTEMIS		GENABEL
	0.5		11			07				08		04	97	_	10			04	08
	Ac	Ja	Gm	Fs	Pi	Ve	Sp	Cn	Au	Mg	Mm	JV	Ct	Tg	Da	Jb	Mb	Pn	Ug
	ACT	JALIGNER	GMAP/GSNAP	FSA	PRICE	VELVET	SPADES	CONTRAIL	AUGUSTUS	MGENE	МетаВіоме	JALVIEW	CATH	MISO	DALLIANCE BROWSER		MrBayes	PhastCons	UGENE
			04						05	08			_		_				
			MI	Po					Ji	Th	Re	Fb	En	Pf	Sk	Sv			
			MUSCLE	PROT PAL					JIGSAW	Торнат	RSEM		ENA	PFAM	SEQMONK 10	SAVANT			
										10	05	82	05	08	10	09			

TOOLS FREE FOR ACADEMICS ONLY

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

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COMMERCIAL TOOLS

Γ	08		08	03	97	10	10		09	
	Zm	Ca	Gd	It	Sr	Gp	An	Pk	Dx	
Z	OOM.	CASAVA	GENEDATA	INTEGROMICS	SRS	GENEXPLAIN	AvidasNGS	Partek	Partek	
	07	05	10	03	99	99		05	05	
	Oz	Ne	Gp	Mh	Mc	Pp	Gs	Gu	Cb	
(DLIGOZIP	NEWBLER	GENEPOOL	Матсн	MASCOT	PIPELINE PILOT	GENESPRING	GENEIOUS PRO	CLC BIO	



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