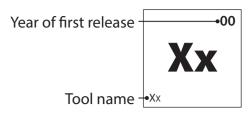


## Seagle The Elements of Bioinformatics



LS	90	08	KEY TO TO	OOL TYPE										81	00	00	01	10	03
	Bn	So		e <b>rs</b> (pairwise)		Assemblers G	enomic (Long	Gene Pro	ne Prediction (mRNA) Workflows						Em	Bi	Вс	Bi	Ms
		SOAP	Aligne	ers (short read)		Assemblers G	enomic (Short	Gene Pro	Gene Prediction (ncRNA)  Genome Browsers					Py	EMBOSS				SWISS-MODEL
	BLAST NCBI  98					Sequenc	Sequence Tools ToolKit & APIs					PHYLIP 00		BIOJAVA 00	BIOCONDUCTOR 03	BISMARK 10	05		
	Hm	Ma	Multiple Sequence Aligners			Structure Modelling Da		Databas	Database / Warehouse Structure Visu		tructure Visual	alisation <b>BS</b>		Eh	En	Br	La	Mye	Hh
		MAQ							_			BIOSQL	EHIVE	ENSEMBL API	BIORUBY	LAGAN	Mauve	HHPRED	
	99	08	94	06	97	04	01	09	03	98	06	97						09	99
	Mu	Во	CI	Pe	Mi	Se	Jm	Sd	Un	GI	Cd	Tr	Bm	Ta	Eb	Вр	PI	Sa	Ps
		BOWTIE	CLUSTALW	PECAN	MIRA 97	SEQCLEAN	Imoi	SOAP: DE NOVO	UNIGENE	GLIMMER 3	CD-HIT	TRNASCAN	BIOMART	TAVERNA	ENSEMBL BROWSER	BIOPERL	PLINK	SAMTOOLS	PSIPRED
	03	09	00				95	09						07				10	09
	Ss	Bw	Cf	Pr	Ce	Fo	Rm	Sg	Cu	Eu	Fx	Rn	In	Gx	Ap	lg	Ut	Am	Qi
		BWA	T-COFFEE	PRANK	CELERA	FORGE	RasMol			EUGENE	FASTX-Toolkit	RNAFOLD	INTERMINE	GALAXY	APOLLO	IGB	UTGB	AmpliconNoise	QIIME
	05	09	02	04	02	10	08	10			10	97	10	08	02	2 04	03	09	09
	Ex	Bf	Ma	Mv	Ar	Me	Co	Pa	Oa	Ep	Fq	Si	Ch	Kn	Gb	Nc	By	Pic	Vc
		BFAST	MAFFT	MAVID	ARACHNE	MERACULOUS	CORTEX_CON_RP	PE-ASSEMBLER	OASES	ENSEMBL PIPELINE		SIGNALP	CHADO	KNIME	GBROWSE	NCBI-MAPVIEWER		PICARD	VCFTOOLS
	88	10	04	05	03	10	07	09	10	11	96	11	71	03	08	07	02	05	12
	Fa	Sm	MI	Pb	Ph	Qu	Al	Ba	Ty	Sn	Rk	Vt	Pd	Up	Iv	Ag	At	As	Ge
	FASTA	SMALT	MUSCLE	PROBCONS	PHUSION(2)	QUAKE	ALLPATHS-LG			SNAP	RepeatMasker	VariantTools	PDP	UniProt	IGV	ARGO		APSAMPLER	GENABEL
	05	12	12	08	11	07	09	09	09	08	09	04	97	12	10	07	_	04	08
	Ac	Rs	Po	Fs	Pi	Ve	Sp	Cn	Au	Mg	Mm	Jv	Ct	Tg	Da	Jb	Mb	Pn	Ug
	ACT	RNA-STAR	PROT PAL	FSA	PRICE	VELVET	SPADES	Contrail	AUGUSTUS	MGENE	МетаВіоме	JALVIEW	CATH	MISO	DALLIANCE BROWSER	JBROWSE	MrBayes	PHASTCONS	UGENE
		11							05		12	_	12			10			
		Gm							Ji	Th	Re	Fb	<b>En</b>	Pf	Sk	Sv			
		GMAP/GSNAP							JIGSAW	Торнат	RSEM	FLEXBAR	ENA	PFAM	SeqMonk	SAVANT			
												82	05	08					
												Gk	lp	Cm	Cb				
												GENBANK	INTERPRO	СнЕМВАL	СнЕВІV				

**TOOLS FREE FOR ACADEMICS ONLY** 

02	2 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	GATK	PAML	ROSETTA	CHIMERA	Dali	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	MaskerAid	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	lt	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



