



The Elements of Bioinformatics

Year of first release

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Xx

Tool name

Xx

OPEN SOURCE TOOLS

KEY TO TOOL TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
<div></div> Aligners (pairwise)	<div></div> Aligners (short read)	<div></div> Other Aligners	<div></div> Multiple Sequence Aligners	<div></div> Assemblers Genomic (Long read)	<div></div> Assemblers Genomic (Short read)	<div></div> Assemblers (mRNA)	<div></div> Structure Modelling	<div></div> Gene Prediction (mRNA)	<div></div> Gene Prediction (ncRNA)	<div></div> Sequence Tools	<div></div> Database / Warehouse	<div></div> Workflows	<div></div> Genome Browsers	<div></div> ToolKit & APIs	<div></div> Structure Visualisation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ACT	RNA-STAR	PROT PAL	FSA	PRICE	VELVET	SPADES	CONTRAIL	AUGUSTUS	MGENE	METABIOME	JALVIEW	CATH	MISO	DALLIANCE BROWSER	JBROWSE	MRBAYES	PHASTCONS	UGENE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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TOOLS FREE FOR ACADEMICS ONLY

02	00	11	11	99	97	06	09	97	96	04	03	01
Bl	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	It	Sr	Gp	Mh	Ge	Pp	Gs	Gu	Cb	An	Pk
ZOOM	CASAVA	OLIGOZIP	NEWBLER	GENEDATA	INTEGROMICS	SRS	GENEPOOL	MATCH	GENEXPLAIN	PIPELINE PILOT	GENESPRING	GENEIOUS PRO	CLC BIO	AVIDASNGS	PARTEK

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