



基因组浏览器总结

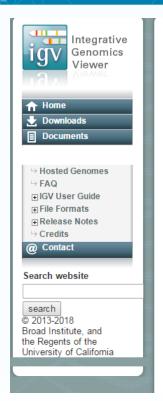
易 生 信

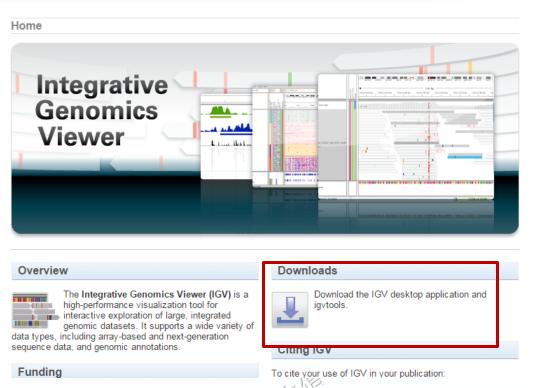
- o <u>本地安装UCSC基因组浏览器</u>
- 测序数据可视化(一)
- o IGV基因组浏览器可视化高通量测序数据
- 。 高通量数据分析必备-基因组浏览器使用介绍 1
- 。 高通量数据分析必备-基因组浏览器使用介绍 2%
- 高通量数据分析必备-基因组浏览器使用介绍-3



比对结果可视化-IGV





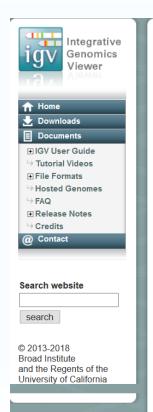




http://software.broadinstitute.org/software/ig/

IGV 的下载





Home > Downloads

Downloads

Did you know that there is also an **IGV web application** that runs only in a web browser, does not use Java, and requires no downloads? See **https://igv.org/app**. Click on the Help link in the app for more information about using IGV-Web.

Install IGV 2.8.6

See the Release Notes for what's new in each release.



IGV Mac App

Download and unzip the Mac App Archive, then double-click the IGV application to run it. You can move the app to the *Applications* folder, or anywhere else.



IGV for Windows

Download and run the installer.

An IGV shortcut will be created on the Desktop; double-click it to run the application.



IGV for Linux

Download and unzip the Archive.

See the downloaded readme.txt for further instructions.



IGV and igytools to run on the command line (all platforms)

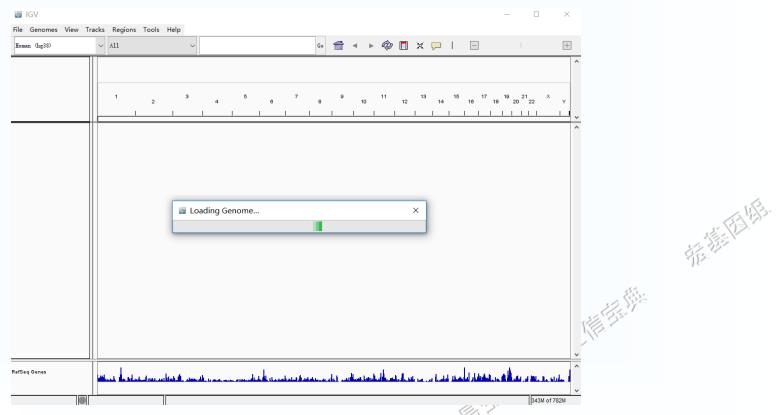
Download and unzip the Archive. **Requires Java 11.**See the downloaded *readme.txt* and *igvtools_readme.txt* for further instructions.



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启动IGV



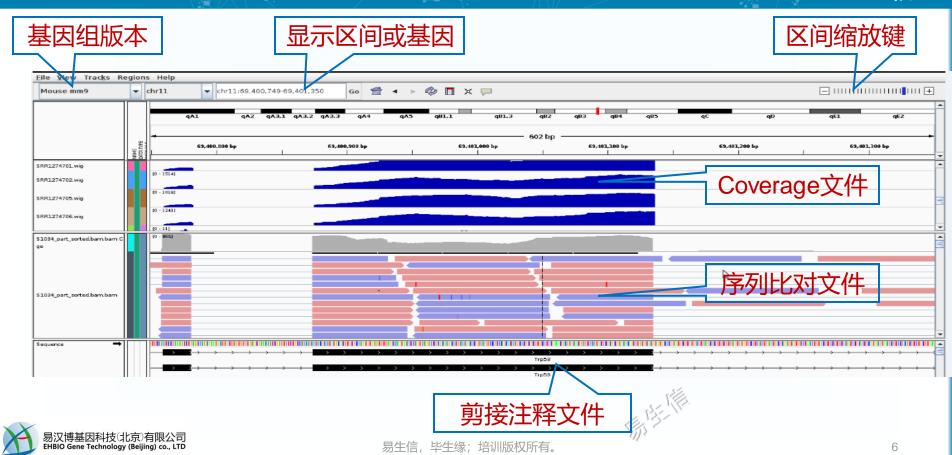




基因组变件的默认位置: C:\Users\Administrator\igv5

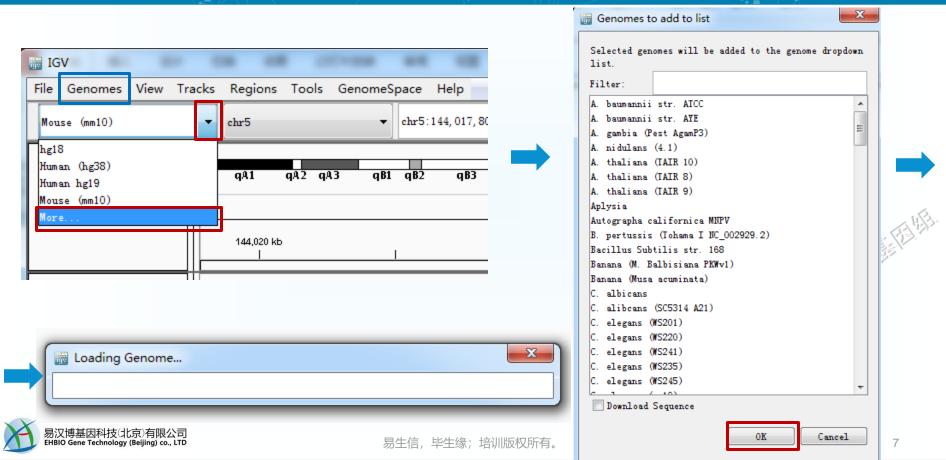
IGV界面





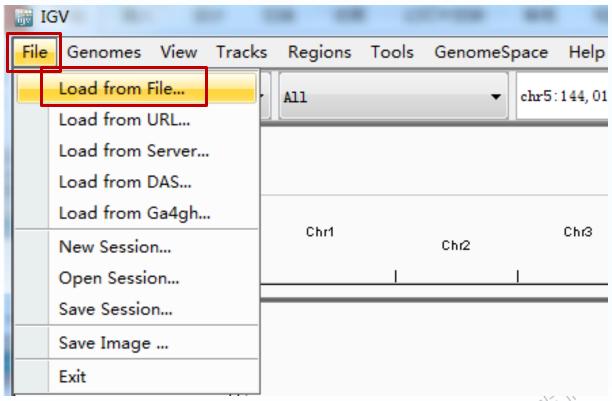
IGV使用步骤 - 加载基因组





IGV使用步骤 - 导入结果文件









新宫- "

IGV推荐使用的文件格式



Source Data	File Formats
ChIP-Seq, RNA-Seq	TDF
Copy number	CN format, SNP format
Gene expression data	GCT format, RES format
Genome annotations	GFF or GFF3 format, BED format
GISTIC data	GISTIC format
LOH data	LOH format
Mutation data	MUT format
RNAi data	GCT format
Segmented data	SEG format, CBS format
Sequence alignment data	SAM format, BAM format
Any numeric data	IGV format, TAB format, WIG format



转换为基因组浏览器可识别格式 BAM to bw/TDF



IGVtools

- igvtools count sample.bam sample.tdf
- igvtools count sample.bam sample.tdf,sample.wig
- igvtools toTDF sample.norm.wig sample.norm.tdf mm10

其它工具

- RSeQC的bam2wig.py http://dldcc-pt/ web.brc.bcm.edu/lilab/liguow/CGI/rseqc/build/html/
- deepTools的bamCoverage http://deeptools.readthedocs.io

Wig转bigWig

mysql --user=genome --host=genome-mysql.cse.ucsc.edu -A -e \ "select chrom, size from mm10.chromInfo" > chrom.sizes wigToBigWig in.wig chrom.sizes out.bw http://hgdownload.cse.ucsc.edu/admin/exe/





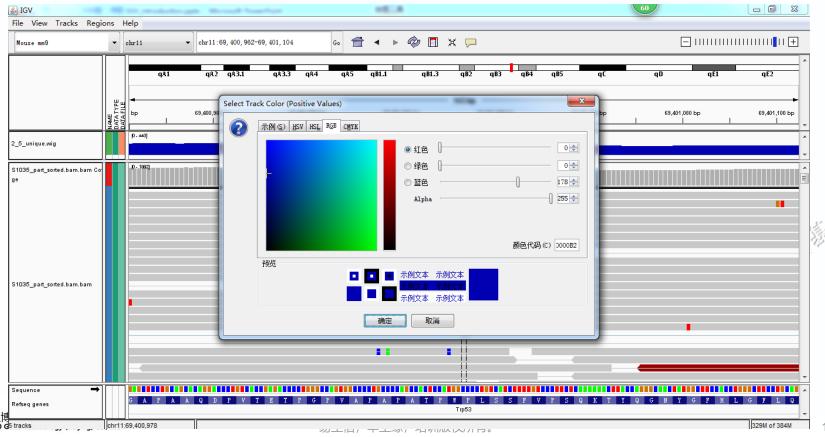
IGV使用步骤 – 更改Track颜色





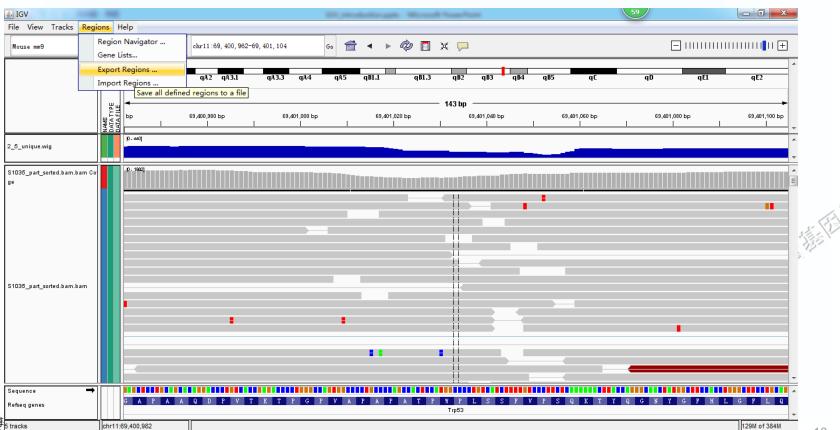
IGV使用步骤 – 更改Track颜色





IGV使用步骤 - 输出区域序列



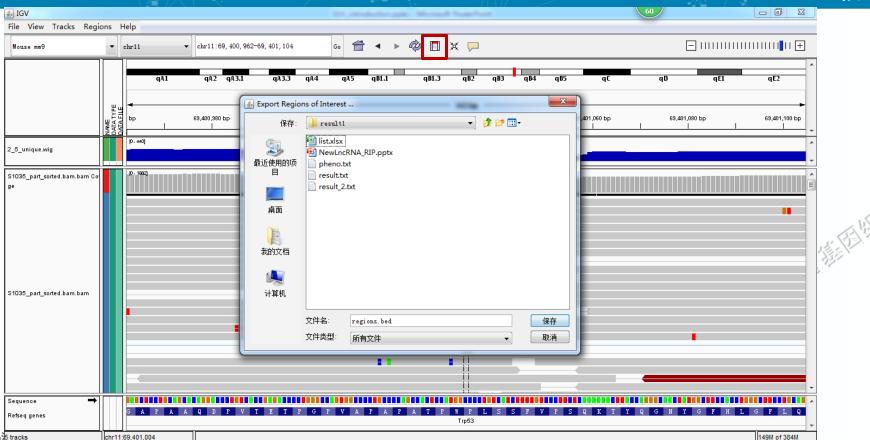


十二次,一切则从人几日。

IGV使用步骤 - 输出区域序列



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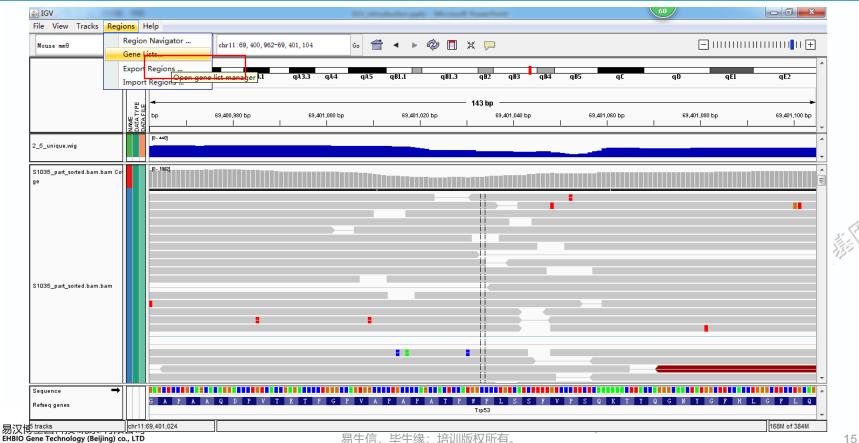


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IGV使用步骤 – 多基因同时显示

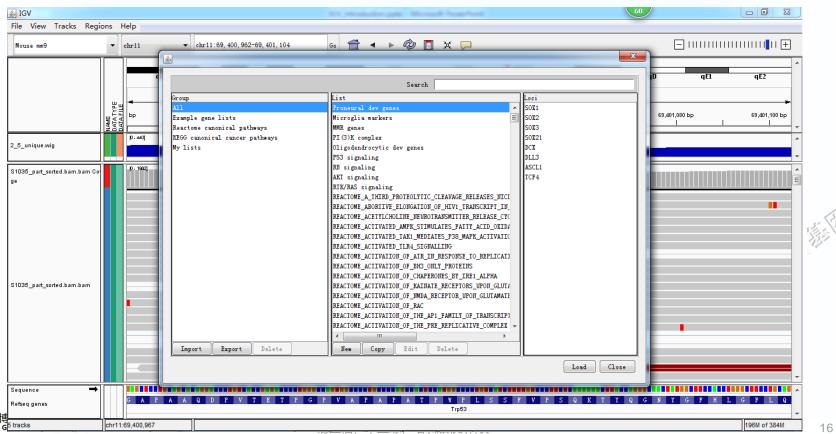




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IGV使用步骤 – 多基因同时显示

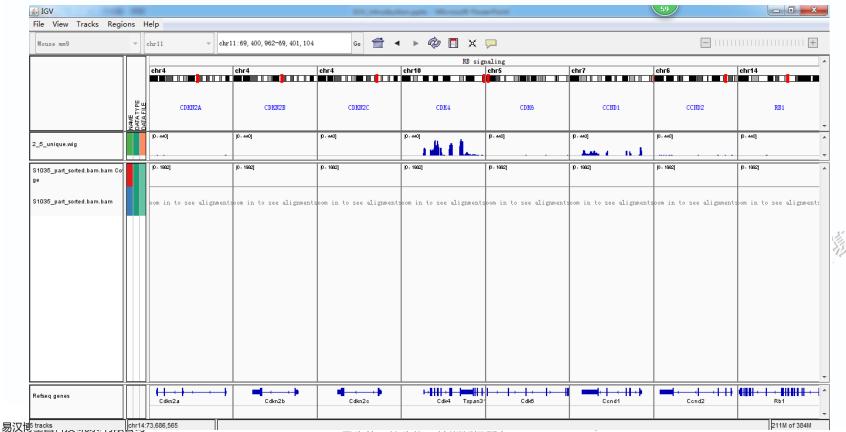




IGV使用步骤 – 多基因同时显示

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Epigenome Browser



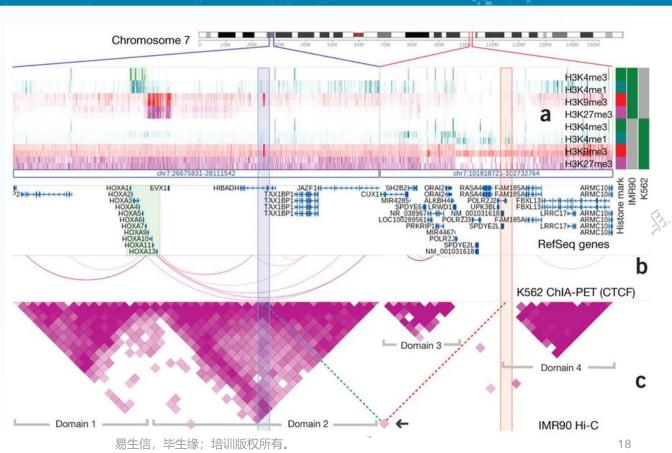
基因表达和调控数据 (组蛋白修饰)

基因注释数据

染色体相互作用数据 (特有功能)

染色体相互作用数据 (特有功能)





Sequencing costs a lot and gains more







