

Exercises for the World Tour II

Typically we provide a series of tasks to accomplish for a site, but for this World Tour format we will list the sites discussed. We recommend that you explore these resources at their sites to learn more about the goals and features of the tools.

	Site name:	Link:
1	OpenHelix	http://www.openhelix.com/
2	dbSNP, Short Genetic Variations	http://www.ncbi.nlm.nih.gov/projects/SNP/
3	DrugBank, Open Data Drug & Drug Target Database	http://www.drugbank.ca/
4	1000 Genomes Project	http://www.1000genomes.org/
5	OMIM, Online Mendelian Inheritance in Man	http://www.omim.org/
6	SMART	http://smart.embl.de/
7	Structural Biology Knowledgebase	http://sbkb.org/
8	Functional Glycomics Gateway	http://www.functionalglycomics.org/
9	UniProt	http://www.uniprot.org/
10	KEGG, Kyoto Encyclopedia of Genes and Genomes	http://www.kegg.jp/
11	STRING, Search Tool for the Retrieval of Interacting Genes/Proteins	http://string.embl.de/
12	Cytoscape	http://cytoscape.org/
13	Reactome	http://www.reactome.org/
14	Entrez Nucleotide	http://www.ncbi.nlm.nih.gov/nucleotide
15	MEME Suite	http://meme.sdsc.edu/
16	miRBase	http://www.mirbase.org
17	RNACentral	http://www.rnacentral.org
18	Melina II	http://melina2.hgc.jp/
19	PubMed	http://www.pubmed.gov/
20	Overview, document sorting and mining	http://overviewproject.org
21	Textpresso	http://www.textpresso.org/
22	Agricola	http://agricola.nal.usda.gov/
23	PubAg	http://pubag.nal.usda.gov
24	NCBI Viral Resources	http://www.ncbi.nlm.nih.gov/genome/viruses/
25	UCSC Ebola Genome Portal	http://www.genome.ucsc.edu/ebolaPortal/

26	IMG, Integrated Microbial Genomes and Metagenomes	http://img.jgi.doe.gov
27	phiSITE and phiGENOME	http://www.phisite.org/
28	UCSC Genome Browser	http://genome.ucsc.edu/
29	ENSEMBL	http://www.ensembl.org/
30	SGD	http://www.yeastgenome.org/
31	GBrowse	http://gmod.org/wiki/GBrowse
32	JBrowse	http://gmod.org/wiki/JBrowse
33	GEO, Gene Expression Omnibus	http://www.ncbi.nlm.nih.gov/geo/
34	ArrayExpress	http://www.ebi.ac.uk/arrayexpress/
35	BioGPS	http://www.biogps.org/
36	DAVID	http://david.abcc.ncifcrf.gov/
37	BioMart	http://www.biomart.org/
38	CLUSTAL	http://www.clustal.org/
39	InterMine	http://www.intermine.org/
40	Galaxy	https://usegalaxy.org/
41	Ballaxy	https://ballaxy.bioinf.uni-sb.de/
42	Whale Shark Galaxy	http://whaleshark.georgiaaquarium.org
43	Primer3	http://bioinfo.ut.ee/primer3/
44	Madeline 2.0	http://eyegene.oophthy.med.umich.edu/madeline/
45	DomainDraw	http://domaindraw.imb.uq.edu.au/
46	FancyGENE	http://bio.ieo.eu/fancygene/
47	UpSet	http://vcg.github.io/upset/
48	GBIB, Genome Browser in a Box	http://genome.ucsc.edu
49	Docker	http://www.docker.com/
	<i>Various species or topic tools mentioned:</i>	
50	Parrot Genome Browser	http://gander.wustl.edu/cgi-bin/hgGateway?db=amaVit1
51	Cannabis Genome Browser	http://genome.cabr.utoronto.ca/
52	Potato database	http://cipotato.org/resources/databases/
53	XenBase	http://www.xenbase.org/
54	Orvis sheep browser	http://www.livestockgenomics.csiro.au/sheep/oar3.1.php
55	Streptococcus pneumonia browser	http://pranag.physics.iisc.ernet.in/SPGDB/
56	SpudDB	http://solanaceae.plantbiology.msu.edu/
57	Butterfly	http://butterflygenome.org/
58	BeeBase	http://hymenoptera-genome.org/

LEARN TO USE BIOINFORMATICS RESOURCES

59	Argentine Ant	http://hymenopteragenome.org/ant_genomes/
60	SalmonDB	http://salmondb.cmm.uchile.cl/
61	Yak	http://me.lzu.edu.cn/yak/
62	YersiniaBase	http://yersinia.um.edu.my
63	i-Pharm	http://www.i-pharm.org/
64	IntOGen	http://www.intogen.org/
65	MINT	http://mint.bio.uniroma2.it
66	OMIA	http://omia.angis.org.au/home/
67	BEAST2	http://beast2.org/
68	CRISPRdirect	http://crispr.dbcls.jp/
69	HiSeq X-ten data set	http://allseq.com/x-ten-test-data
70	Slidify	http://slidify.org/
71	RStudio	http://www.rstudio.com/
	Related sources:	
	NLM Growth graph	http://www.nlm.nih.gov/about/2015CJ.html
	Geospiza Finchtalk graph	http://finchtalk.blogspot.com/2013/01/bio-databases-2013.html
	World image	By Strebe (Own work) [CC BY-SA 3.0 (http://creativecommons.org/licenses/by-sa/3.0)], via Wikimedia Commons http://commons.wikimedia.org/wiki/File%3AMollweide_projection_SW.jpg
	Pan African Bioinformatics Network	http://h3abionet.org/