Repository Resources

1. **Code Repositories**
   1. **Primary**

|  |  |
| --- | --- |
| Bitbucket  https://bitbucket.org/ |  |
| Code Ocean  https://codeocean.com/ |  |
| Docker Hub  https://hub.docker.com/ |  |
| GitHub  https://github.com/ |  |

* 1. **Secondary**

|  |  |
| --- | --- |
| Assembla  https://www.assembla.com/home/ |  |
| CloudForge  http://www.cloudforge.com/ |  |
| LaunchPad  https://launchpad.net/ |  |
| ProjectLocker  http://projectlocker.com/ |  |
| Sourceforge  https://sourceforge.net/ |  |

1. **Data-type Agnostic Repositories**
   1. **Primary**

|  |  |
| --- | --- |
| Dataverse  https://dataverse.harvard.edu/ |  |
| dbGaP  https://www.ncbi.nlm.nih.gov/gap |  |
| Dryad  http://datadryad.org/ |  |
| Figshare  https://figshare.com/ |  |

* 1. **Secondary**

|  |  |
| --- | --- |
| DataONE  https://www.dataone.org/ |  |
| PANGAEA  https://www.pangaea.de/ |  |

1. **Biomedical Data-specific Repositories**
   1. **Sequencing Databases**

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| --- | --- |
| EMBL  http://www.ebi.ac.uk/ |  |
| ENA  http://www.ebi.ac.uk/ena |  |
| GOLD  https://gold.jgi.doe.gov/ |  |
| NCBI Genome Database  https://www.ncbi.nlm.nih.gov/genome/ |  |
| SRA  https://www.ncbi.nlm.nih.gov/sra |  |

* 1. **Gene Expression**

|  |  |
| --- | --- |
| ArrayExpress  https://www.ebi.ac.uk/arrayexpress/ |  |
| BioGPS  http://biogps.org/ |  |
| Gene Expression Omnibus  https://www.ncbi.nlm.nih.gov/geo/ |  |
| GTEx Portal  https://www.gtexportal.org/home/ |  |
| SAGE  http://www.sagenet.org/ |  |

* 1. **Protein Structure Databases**

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| --- | --- |
| CATH  http://www.cathdb.info/ |  |
| PDB  https://www.wwpdb.org/ |  |
| PRIDE  https://www.ebi.ac.uk/pride/archive/ |  |
| SCOP  http://scop.mrc-lmb.cam.ac.uk/scop/ |  |

* 1. **Proteomics Databases**

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| --- | --- |
| jPost  http://jpostdb.org/ |  |
| MassIVE  http://massive.ucsd.edu/ProteoSAFe/static/massive.jsp |  |
| Peptide Atlas  http://www.peptideatlas.org/ |  |

* 1. **Pathway Databases**

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| --- | --- |
| GO  http://www.geneontology.org/ |  |
| KEGG  http://www.genome.jp/kegg/pathway.html |  |
| MetaCyc  https://metacyc.org/ |  |
| SEED  http://www.theseed.org/wiki/Main\_Page |  |

* 1. **Regulatory Databases**

|  |  |
| --- | --- |
| CisRED  http://www.cisred.org/ |  |
| JASPAR  http://jaspar.genereg.net/ |  |
| ORegAnno  http://www.oreganno.org/ |  |
| Transfac  http://genexplain.com/transfac/ |  |

* 1. **Variant Databases**

|  |  |
| --- | --- |
| dbSNP  https://www.ncbi.nlm.nih.gov/projects/SNP |  |
| dbVar  https://www.ncbi.nlm.nih.gov/dbvar  \*Phasing out 9/1/17 |  |
| DGV  http://dgv.tcag.ca/dgv/app/home |  |
| DGVA  http://www.ebi.ac.uk/dgva |  |
| European Variation Archive  http://www.ebi.ac.uk/eva/ |  |
| HGVD  http://www.hgvd.genome.med.kyoto-u.ac.jp/ |  |
| OMIM  https://www.omim.org/  https://www.ncbi.nlm.nih.gov/omim |  |

* 1. **Micro-RNA Databases**

|  |  |
| --- | --- |
| miRBase  http://www.mirbase.org/ |  |
| miRDB  http://www.mirdb.org/ |  |
| miRTarBase  http://mirtarbase.mbc.nctu.edu.tw/ |  |
| TargetScan  http://www.targetscan.org/vert\_71/ |  |

**3.8 Interaction Databases**

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| --- | --- |
| BIND  http://http//binddb.org |  |
| BioGRID  https://thebiogrid.org/ |  |
| DIP  http://dip.doe-mbi.ucla.edu/dip/Main.cgi |  |
| IntAct  http://www.ebi.ac.uk/intact/ |  |
| MINT  http://mint.bio.uniroma2.it/ |  |

**3.9 Single Cell Sequencing Databases**

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| --- | --- |
| awesome-single-cell https://github.com/seandavi/awesome-single-cell |  |
| Jingle Bells  http://jinglebells.bgu.ac.il/ |  |
| Novogene  https://en.novogene.com/ |  |
| scRNASeqDB  https://bioinfo.uth.edu/scrnaseqdb/ |  |
| The Lair  http://pachterlab.github.io/lair/ |  |

**3.10 Metabolomics Databases**

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| --- | --- |
| GNPS  http://gnps.ucsd.edu/ProteoSAFe/static  /gnps-splash.jsp |  |
| MetaboLights  http://www.ebi.ac.uk/metabolights/ |  |
| Metabolomics Workbench  http://www.metabolomicsworkbench.org/ |  |

**3.11 Epigenetics Databases**

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| --- | --- |
| DeepBlue  http://deepblue.mpi-inf.mpg.de/ |  |
| IHEC Data Portal  http://epigenomesportal.ca/ihec/ |  |
| ROADMAP Epigenomics  http://egg2.wustl.edu/roadmap/web\_portal/ |  |
| The Epigenome Atlas  http://www.genboree.org/epigenomeatlas/index.rhtml |  |