**Literature Informatics: **

* PubMed: <http://www.ncbi.nlm.nih.gov/pubmed/>
* Go PubMed: <http://www.gopubmed.com/web/gopubmed/>
* NIH reporter: <http://projectreporter.nih.gov/reporter.cfm>
* PubMed Special Queries: <http://www.nlm.nih.gov/bsd/special_queries.html>
* NextBio: <http://www.nextbio.com/b/nextbio.nb>

**Bioinformatics Database and Software:**

* Search.HSLSMolBio: <http://www.hsls.pitt.edu/guides/genetics/>
* NCBI: <http://www.ncbi.nlm.nih.gov/>
* RefSeq: <http://www.ncbi.nlm.nih.gov/RefSeq/key.html#status>
* EBI: <http://www.ebi.ac.uk/>

**Protein-centric Information Gateways:**

* Uniprot: <http://www.uniprot.org/>
* Entrez gene: <http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&cmd=search&term=>
* UCSC Genome : <http://genome.ucsc.edu/cgi-bin/hgGateway>
* Homologene[: http://www.ncbi.nlm.nih.gov/sites/entrez?db=homologene](file:///C:\Documents%20and%20Settings\techuser\Desktop\:%20http:\www.ncbi.nlm.nih.gov\sites\entrez%3fdb=homologene)
* BLINK: <http://www.ncbi.nlm.nih.gov/sutils/blink.cgi?mode=query>
* HPRD: <http://www.hprd.org/>
* UCSC BLAT: <http://genome.ucsc.edu/cgi-bin/hgBlat?command=start>
* UCSC Proteome Browse: r<http://genome.ucsc.edu/cgi-bin/pbGateway?command=start>
* Ingenuity Knowledge base: <http://www.ingenuity.com/>
  + Registration: <http://www.hsls.pitt.edu/guides/genetics/ipa/register>
* GeneGo Metacore: <http://portal.genego.com/cgi/start.cgi>
  + Registration:<http://www.hsls.pitt.edu/guides/genetics/metacore/register>
* Biobase Knowledge Library :

[https://portal.biobase-international.com/cgi-bin/build\_hpty/idb/1.0//searchengine/start.cgi](https://portal.biobase-international.com/cgi-bin/build_hpty/idb/1.0/searchengine/start.cgi)

* + Registration:<http://www.hsls.pitt.edu/guides/genetics/biobase/register>

**Protein Domains, Families, Repeats and Sites:**

* CDD Search: <http://www.ncbi.nlm.nih.gov/Structure/cdd/cdd.shtml>
* InterPro Scan:<http://www.ebi.ac.uk/Tools/InterProScan/>
* ScanProsite: <http://expasy.org/tools/scanprosite/>

**Protein Structure:**

* PDB:<http://www.rcsb.org/pdb/home/home.do>
* NCBI Structure (MMDB): <http://www.ncbi.nlm.nih.gov/Structure/MMDB/mmdb.shtml>
* Cn3D download: <http://www.ncbi.nlm.nih.gov/Structure/CN3D/cn3d.shtml>
* First glance in Jmol: <http://molvis.sdsc.edu/fgij/index.htm>

**Protein –protein interaction:**

* String: <http://string.embl.de/>

**Search Engine for Databases and software:**

* HSLS MolBio: <http://www.hsls.pitt.edu/guides/genetics/>
* Vadlo: <http://vadlo.com/>
* OReFill: <http://orefil.dbcls.jp/>

**Video Tutorials:**

* MolBio Videos: <http://www.hsls.pitt.edu/molbio/videos>
* Find protein domains, PTM, secondary str etc: <http://media.hsls.pitt.edu/media/clres2705/uniprot.swf>
* Find Hydrophobicity, mw, peptide digestion : <http://media.hsls.pitt.edu/media/clres2705/uniprot2.swf>
* Start with a protein pattern and find what proteins posses that domain: <http://media.hsls.pitt.edu/media/clres2705/scanprosite.swf>
* Search for protein domains,repeats and sites: <http://media.hsls.pitt.edu/media/clres2705/interpro.swf>
* Retrieve interacting partners of a protein: <http://media.hsls.pitt.edu/media/clres2705/ppi.swf>
* View the crystal structure of mouse p53 using Cn3D: <http://media.hsls.pitt.edu/media/clres2705/cn3d.swf>
* Start with a peptide sequence and search for protein 3D structure/model : <http://media.hsls.pitt.edu/media/clres2705/sbkb.swf>
* Find homologous sequences:

<http://media.hsls.pitt.edu/media/clres2705/blast.swf>