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**Genetic Variations databases:**

* Entrez SNP**:** <http://www.ncbi.nlm.nih.gov/sites/entrez>
* HapMap**:** <http://hapmap.ncbi.nlm.nih.gov/cgi-perl/gbrowse/hapmap27_B36/>
* Database of genomic variants (DGV): <http://projects.tcag.ca/variation/>
* dbVar: <http://www.ncbi.nlm.nih.gov/projects/dbvar/>
* NHGRI GWAS Catalog: <http://www.genome.gov/gwastudies/>
* Decipher:<https://decipher.sanger.ac.uk/application/>
* dbRIP: <http://dbrip.brocku.ca/>
* HGVS mutation databases**:** <http://www.hgvs.org/dblist/dblist.html>
* NCBI PheGenI:<http://www.ncbi.nlm.nih.gov/gap/phegeni>

**Disease causing SNPs/Genes:**

* Disease/phenotype centric databases:
  + OMIM: <http://www.ncbi.nlm.nih.gov/omim/>
  + HuGE Navigator: <http://hugenavigator.net/>
  + HGMD Public: <http://www.hgmd.org/>
  + **HGMD Pro**: <http://www.hsls.pitt.edu/molbio/biobase-genome-trax>
  + **NextBio**: <http://www.nextbio.com/b/nextbioCorp.nb>

**Genetic variations in the context of a genomic region:**

* NCBI Map Viewer: <http://www.ncbi.nlm.nih.gov/mapview/>
* UCSC Genome Browser: <http://genome.ucsc.edu/cgi-bin/hgGateway>
* UCSC Table Browser: <http://genome.ucsc.edu/cgi-bin/hgTables?command=start>

**Functional analysis of mutations:**

* Entrez Protein: <http://www.ncbi.nlm.nih.gov/sites/entrez?db=protein&cmd=search&term>=
* NCBI Amino Acid Explorer: <http://www.ncbi.nlm.nih.gov/Class/Structure/aa/aa_explorer.cgi>
* NCBI Mutation Analyzer:  <http://www.ncbi.nlm.nih.gov/Class/Structure/aa/aa_explorer.cgi?mode=translate>
* TMHMM Server: <http://www.cbs.dtu.dk/services/TMHMM-2.0/>
* Amino acid properties: <http://www.russell.embl.de/aas/>
* F-SNP: <http://compbio.cs.queensu.ca/F-SNP/>
* SIFT: <http://sift.jcvi.org/>
* PolyPhen: <http://genetics.bwh.harvard.edu/pph/>
* SNPs3D: <http://www.snps3d.org>[/](http://www.snps3d.org/)
* ESE Finder: <http://rulai.cshl.edu/cgi-bin/tools/ESE3/esefinder.cgi?process=home>
* SPOT: [http://spot.cgsmd.isi.edu](http://spot.cgsmd.isi.edu/)
* **Biobase Genome Trax**: <http://goo.gl/pUhQ4>

**Health Sciences Library System:**

* Online Bioinformatics Resources Collection: <http://www.hsls.pitt.edu/guides/genetics/obrc/mutations_diseases>
* Search.HSLS.MolBio—query: “genetic variations” <http://www.hsls.pitt.edu/guides/genetics>
  + Databases/Tools
  + Articles on Databases/Tool