

Table S4. Commonly used databases for pharmacogenomics research and membrane transporter research

| Category | Definition | Name | Link |
|--|--|--|---|
| Human Variation Databases | These databases archive or display results on genetic variations in different populations | 1000 Genomes Project | http://www.internationalgenome.org/1000-genomes-browsers |
| Human Variation Databases | | BRAVO | https://bravo.sph.umich.edu/freeze5/hg38/ |
| Human Variation Databases | | DiscoverEHR | http://www.discoverehrshare.com/ |
| Human Variation Databases | | eMERGE SPHINX | https://www.emergesphinx.org/ |
| Human Variation Databases | | Exome Variant Server | http://evs.gs.washington.edu/EVS/ |
| Human Variation Databases | | gnomAD Aggregation Database | http://gnomad.broadinstitute.org/ |
| Human Variation Databases | | Human Longevity Inc. Open Search | https://search.hli.io/?q= |
| Collections of In Vitro and In Vivo Data | These databases archive and collect information about relationships among variation and human health including pharmacogenomics | ClinVar | https://www.ncbi.nlm.nih.gov/clinvar/ |
| Collections of In Vitro and In Vivo Data | | CPIC | https://cpicpgx.org/ |
| Collections of In Vitro and In Vivo Data | | Drug Interaction Database* | https://www.druginteractioninfo.org/ |
| Collections of In Vitro and In Vivo Data | | Human Longevity Inc. Open Search | https://search.hli.io/?q= |
| Collections of In Vitro and In Vivo Data | | PharmGKB | https://www.pharmgkb.org/ |
| Genotype to Phenotype Databases | These databases display association results between genetic variations with phenotypes (e.g. drug response, disease, traits) | Gene ATLAS | http://geneatlas.roslin.ed.ac.uk/region/ |
| Genotype to Phenotype Databases | | GWAS Catalog | https://www.ebi.ac.uk/gwas/ |
| Genotype to Phenotype Databases | | PheWAS Catalog | https://phewascatalog.org/ |
| Functional Genomics Tools | These tools are commonly used for functional genomic analysis | PolyPhen-2 | http://genetics.bwh.harvard.edu/pph2/ |
| Functional Genomics Tools | | RegulomeDB | http://regulomedb.org/ |
| Functional Genomics Tools | | Variant Effect Predictor | http://www.ensembl.org/Homo_sapiens/Tools/VEP |
| Expression Profiling | These databases display results on mRNA or protein levels in different tissues or cell lines | Expression Atlas | https://www.ebi.ac.uk/gxa/home |
| Expression Profiling | | GTEEx Portal | https://gtexportal.org/home/ |
| Expression Profiling | | Human Protein Atlas | http://pharmacogenetics.ucsf.edu/ |
| Transporter Databases | These databases are relevant to membrane transporter research, ranging from substrate information to membrane transporter variation and classification | Pharmacogenetics of Membrane Transporters* | http://pharmacogenetics.ucsf.edu/ |
| Transporter Databases | | SLC Tables - BioParadigms | http://slc.bioparadigms.org/ |
| Transporter Databases | | TransportDB 2.0 | http://www.membranetransport.org/transportDB2/index.html |
| Transporter Databases | | Transporter Classification Database (TCDB) | www.tcdb.org |
| Transporter Databases | | UCSF-FDA Transportal | http://transportal.compbio.ucsf.edu/ |