



U.S. National Library of Medicine

National Network of Libraries of Medicine
Southeastern/Atlantic Region

Chemicals, Drugs, and Genetics – Genetic Information Databases

Databases

ClinicalTrials.gov: <https://www.clinicaltrials.gov/>

- The site provides information about federally and privately funded clinical research with human volunteers. A search using a keyword, such as “genetic,” will search all fields and can be combined with diseases or conditions, location, treatment, sponsor, and more.

Gene: <https://www.ncbi.nlm.nih.gov/gene/>

- This NCBI reference database integrates information from various species. Search with a gene name or by a genetic disease. Records may include summaries, Reference Sequences (RefSeqs), and links to genome-, phenotype-, and locus-specific resources worldwide.

Genetics Home Reference (GHR): <https://ghr.nlm.nih.gov/>

- Consumer-friendly information about the genetic variations on human health, this database includes the genetics effects of over 850 health conditions, diseases, and syndromes and more than 1,300 genes, health effects of genetic differences, and gene families.

GeneReviews: <https://www.ncbi.nlm.nih.gov/books/NBK1116/>

- GeneReviews are expert-authored, peer-reviewed disease descriptions focused on clinically relevant and medically actionable information on the diagnosis, management, and genetic counseling of patients and families with specific inherited conditions.

Genes and Diseases: <https://www.ncbi.nlm.nih.gov/books/NBK22183/>

- This collection of articles focus on genes and the diseases that they cause; it is organized by the parts of the body that they affect. With each genetic disorder, the underlying mutation(s) is discussed, along with clinical features and links to key websites.

GQuery: Global Cross-database NCBI Search: <https://www.ncbi.nlm.nih.gov/gquery/>

- Use simple genetic terms for this search portal across the NLM NCBI databases.

MedGen: <https://www.ncbi.nlm.nih.gov/medgen>

- This NCBI curated portal to Medical Genetics information integrates information from GTR, GeneReviews, and OMIM. Information includes clinical features of a disorder and related genes, medical and research literature consumer resources, and ontologies.

MedlinePlus: <https://medlineplus.gov/>

- This consumer health database provides links to authoritative information. Health Topic pages include genetic disorders, genetic testing, genetic counseling and related topic. Links to the Medical Encyclopedia, GHR, and NIH institute resources and patient handouts.

Additional Resources and Databases

Genetic and Rare Diseases Information Center (GARD): <https://rarediseases.info.nih.gov/>

- NIH National Center for Advancing Translational Sciences (NCATS) Office of Rare Diseases Research (ORDR) developed GARD to provide information about rare diseases for patients, their families, healthcare providers, researchers, educators and students.

Glossary of Genomics Terms (JAMA): <http://jamanetwork.com/journals/jama/fullarticle/1677346>

- This glossary represents a compilation of definitions based in part on published information from Archives of Ophthalmology, JAMA, New England Journal of Medicine, and Ontology for Biomedical Investigations.

HUGO Gene Nomenclature Committee (HGNC): <http://www.genenames.org/>

- HGNC has assigned unique gene symbols and names to over 37,000 human loci, of which around 19,000 are protein coding. Genenames.org is a curated online repository of HGNC approved gene nomenclature and associated resources including links to genomic, proteomic and phenotypic information, as well as dedicated gene family pages.

Online Mendelian Inheritance in Man® (OMIM): <http://omim.org/>

- Based on the Mendelian Inheritance in Man, OMIM is a comprehensive, authoritative compendium of human genes and genetic disorders, with links to literature references, sequence records, a clinical synopsis, and related databases including ClinicalTrials.gov, Gene Reviews, and GHR. OMIM can be searched from the NCBI dropdown menu.

Talking Glossary of Genetic Terms: <https://www.genome.gov/glossary/>

- National Human Genome Research Institute, this site provides help to those without scientific backgrounds to understand terms and concepts used in genetic research. Each term includes the pronunciation, audio information, images, and links to related terms.