

1. **GenBank:**
 - **Description:** A comprehensive database of genetic sequences, hosted by the National Center for Biotechnology Information (NCBI).
2. **NCBI Gene:**
 - **Description:** A database providing comprehensive information on genes, including genomic location, function, and associated diseases.
3. **GeneCards:**
 - **Description:** A database offering gene-related information, emphasizing gene function, expression, and clinical relevance.
4. **Ensembl:**
 - **Description:** A genome browser and database offering genomic information, including gene structures, variations, and regulatory elements.
5. **UCSC Genome Browser:**
 - **Description:** A platform for visualizing and analyzing genomic data, allowing researchers to explore gene annotations, chromosomal interactions, and evolutionary conservation.
6. **HapMap:**
 - **Description:** A project aiming to identify and catalog genetic similarities and differences among human populations, contributing to population genomics.
7. **1000 Genomes Browser:**
 - **Description:** An initiative providing a comprehensive map of human genetic variations, aiding in understanding population diversity and disease susceptibility in population genomics.
8. **Pfam:**
 - **Description:** A database of protein families and domains, facilitating the exploration of protein structure and function.
9. **InterPro:**
 - **Description:** A database that integrates information about protein families, domains, and functional sites, aiding in the analysis of protein sequences.
10. **SMART:**
 - **Description:** A database providing information about protein domains, allowing researchers to analyze protein structures and functions.
11. **PubMed:**
 - **Description:** A search engine and database for biomedical literature, allowing researchers to access a vast repository of scientific articles.
12. **Protein Data Bank (PDB):**
 - **Description:** A repository for three-dimensional structures of proteins and other biomolecules, providing insights into protein structure.
13. **UniProt:**
 - **Description:** A comprehensive protein sequence database that integrates UniProtKB, UniRef, and UniParc, offering accurate and integrated protein information.
14. **OMIM (Online Mendelian Inheritance in Man):**

- **Description:** A comprehensive and authoritative database cataloging human genes and genetic disorders, providing information on the relationship between phenotype and genotype.

15. **Open Targets:**

- **Description:** A project aiming to systematically identify and prioritize potential drug targets by integrating genomic, target, and disease-related data.

16. **InterMine:**

- **Description:** An open-source data warehouse system used for the integration and analysis of complex biological data.

17. **ArrayExpress:**

- **Description:** A database hosting functional genomics experiments, including gene expression data, microarray, and high-throughput sequencing data.

18. **Expression Atlas:**

- **Description:** A resource providing information on gene expression patterns under different biological conditions, integrating data from ArrayExpress.

19. **ENCODE (Encyclopedia of DNA Elements):**

- **Description:** A collaborative project identifying and characterizing functional elements in the human genome, including protein-coding genes, non-coding RNAs, and regulatory elements.

20. **Reactome:**

- **Description:** A database detailing molecular pathways, including reactions, proteins, and small molecules, providing a comprehensive view of biological processes.

21. **KEGG (Kyoto Encyclopedia of Genes and Genomes):**

- **Description:** A resource offering pathway information, functional annotations, and information on genomic elements.