Online Databases in the field of biology

Here are some essential online databases that are widely used in various fields of biology:

1. **PubMed**: A comprehensive database of biomedical literature, including articles from life sciences and biomedical journals.
2. **NCBI (National Center for Biotechnology Information)**: Hosts a variety of databases, including:
   * **GenBank**: For nucleotide sequences.
   * **PubChem**: For chemical compounds.
   * **BLAST**: For sequence alignment.
3. **EMBL-EBI (European Molecular Biology Laboratory - European Bioinformatics Institute)**: Provides numerous databases and tools, such as:
   * **Ensembl**: For genome annotations.
   * **ArrayExpress**: For gene expression data.
4. **UniProt**: A protein sequence and functional information database that provides comprehensive annotations.
5. **STRING**: A database for predicting and visualizing protein-protein interactions.
6. **The Human Protein Atlas**: Contains information about the distribution and function of human proteins across different tissues and cell types.
7. **Reactome**: A database of biological pathways and reactions, focusing on human biology.
8. **SABIO-RK**: A database of kinetic data for biochemical reactions, especially useful in metabolic pathway analysis.
9. **Kegg**: A database for understanding high-level functions of biological systems based on molecular-level information, including pathways and genomes.
10. **BRENDA**: The comprehensive enzyme information system, providing data on enzyme functions, kinetics, and specificities.
11. **TreeBASE**: A database of phylogenetic information, allowing researchers to store and share evolutionary trees.
12. **Taxonomy Browser (NCBI)**: Provides taxonomic information and classification for organisms.

These databases serve as vital resources for researchers, offering access to a wide range of biological data, from genomic sequences to protein functions and metabolic pathways.