Anatomy is the study of the structure of organisms and their parts.

Genetics

is the study of genes and how they are inherited and expressed. Paleontology is the study of fossils and the history of life on earth. Ecology is the study of how organisms interact with each other and their environment. Botany is the study of plants. Zoology is the study of animals. Mycology is the study of fungi. Astrobiology is the study of life beyond earth. Bioinformatics is the use of computer science to analyze biological data. Quantum biology is the study of how quantum mechanics applies to biological systems.

Understanding the different sub-disciplines of biology is important for understanding the specialized knowledge and techniques used in different areas of biology.