Multi-omics refers to the study of multiple levels of biological information, including genomics (the study of an organism's genetic information), transcriptomics (the study of gene expression), proteomics (the study of proteins), and metabolomics (the study of small molecules and metabolic pathways). The integration of multiple omics data provides a more comprehensive understanding of biological systems and can lead to the discovery of new insights and biomarkers in disease diagnosis and treatment.

For example, in the context of cancer research, multi-omics approaches can be used to identify new therapeutic targets and predict treatment responses. Multi-omics can also be used to classify tumors into molecular subtypes, which can inform personalized treatment strategies and improve patient outcomes

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