### **✅ What is Multi-Omics?**

**Multi-omics** refers to the integration of multiple layers of biological data (omics) to understand complex diseases. These may include:

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| **Omics Layer** | **Description** |
| **Genomics** | DNA sequence and mutations |
| **Transcriptomics** | Gene expression (RNA) |
| **Proteomics** | Protein expression and modifications |
| **Epigenomics** | DNA methylation, histone modifications |
| **Metabolomics** | Small molecule profiles (metabolites) |
| **Radiomics** | Quantitative image features from MRI, CT, etc. |
| **Pathomics** | Digital pathology-based image features |