

Network based analysis of omics data to study the affected pathways in disease aetiology

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During these lectures we will learn about biological networks and their properties, we will go over protein protein interaction networks how they are determined and their potential use, then we will learn about methods for active subnetwork identification to determine subnetworks that are mostly targeted in disease then we will review pathways (KEGG, Reactome,...) and scoring methods that are used for determining the impact of alterations to the function of the pathway.