

# Biotechnology: Excitements and Career Opportunities

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**Systems Biology**

Systems biology is a new field in biology where organisms and biological processes are quantitatively analysed in terms of the components and their interaction and described at a system level in a framework of mathematical models.

The diagram is a dense network of nodes and edges. Key nodes are highlighted in colored boxes: a blue box labeled 'Critical Junctions', a green box labeled 'Regulatory Elements', a yellow box labeled 'Signaling Pathways', a purple box labeled 'Energy Metabolism', and a pink box labeled 'Structural Components'. The network shows a complex web of interactions, with some nodes acting as central hubs.







