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He has been engaged in research on metabolic engineering, systems and synthetic biology for the last 12 years. He got involved in teaching subjects: Metabolic Engineering, Metabolic Systems Biology to UG & PG students of IIT Kharagpur for the last 4 years.

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Metabolic engineering is the practice of optimizing genetic and regulatory processes within cells to increase the cells' production of a certain substance. These processes are chemical networks that use a series of biochemical reactions and enzymes that allow cells to convert raw materials into molecules necessary for the cell's survival. Metabolic engineering specifically seeks to mathematically model these networks, calculate a yield of useful products, and pinpoint parts of the network that

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