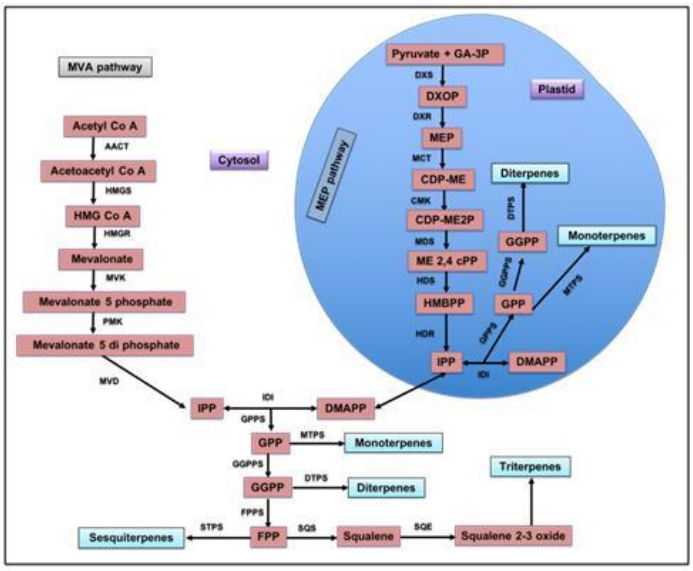
Metabolic engineering opening new avenues for therapeutics

Team of researchers including Dr. Richa Mehra, Ashish Kumar Pandey and Manoj Kumar Soni at Regional Centre for Biotechnology (RCB), Faridabad has published a book chapter on 'Metabolic engineering opening new avenues for therapeutics'. The chapter focuses on increasing global burden of diseases and high cost of therapeutics, which derives the rewiring of metabolites for better yield and production.



Metabolic engineering is a useful tool to facilitate a well-planned hypothesis of metabolic flux and metabolic control on a suitable host to develop value-added products especially therapeutic compounds. The driving force behind these strategies is the sustainable development, cost factor, and increasing demands. Several strategies like gene overexpression, heterologous pathways, by-product elimination and transporter/co-factor engineering are commonly employed to optimize the engineered products.

The chapter provides a broad overview of metabolic engineering, describing common strategies used for metabolic engineering, plant metabolic engineering, microbial metabolic engineering with evident examples and challenges of metabolic engineering. The chapter has been published in '*Engineering of Microbial Biosynthetic Pathways*'.

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