

# Metabolic engineering of high-value nutraceuticals and bioactive compounds

## FACULTY DEVELOPMENT PROGRAMME

Resource Person

Dr. R. Narsimha

No. of Partcipants: 175

Date: 13th June 2020

#### About the session

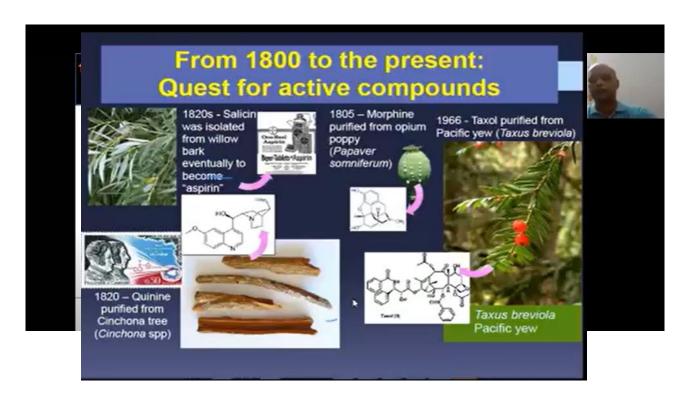
The session focuses on different works in the field of metabolic engineering in plant cells. Metabolic engineering combines systematic analysis of metabolic and other pathways with molecular biological techniques to improve cellular properties by designing and implementing rational genetic modifications. Metabolic engineering allows for the rewiring of basic metabolism to overproduce both native and non-native metabolites. Among these biomolecules, nutraceuticals have received considerable interest due to their health-promoting or disease-preventing properties.

#### Objective:

- To discuss Next-generation metabolic engineering approaches toward the development of plant cell suspension cultures.
- Plant cell suspension culture technology
- Genome editing
- Chloroplast transformation technology

**Outcome:** The session discusses metabolic engineering; Classical Stain Improvement, Rational metabolic engineering, and Bioprocessing applications. A large array of nutraceutical products is being explored through the use of metabolic engineering. This approach bypasses the traditional challenges of direct extraction from animals and plants and provides an environmentally-friendly and sustainable platform for

industrial production. As demand for these products continuously increases along with population growth, the use of metabolic engineering becomes more important.





# Metabolic engineering of Nutraceuticals and Bioactive compounds

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### Organized by:

Centurion University of Technology and Management

Date: 13-06-2020

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7	Mr.Pankaj Meher	Asst.Prof
8	Mr.Sujit Kumar Mishra	Asst.Prof
9	Mr.Chinmayee Tripathy	Asst.Prof
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	Dr. Satya Prakash Nanda	Professor cum Dean
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61	Dr. Barsha Tripathy	Assistant Professor
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