

Students' Annual Seminar

A journey towards the total chemical synthesis of Microcin J25

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Microcin J25 (MccJ25) is a 21 residue lasso peptide. It has a ring structure with the formation of an amide bond between the side chain of the eighth glutamic acid and the amine group of the N-terminal amino acid. Its interesting structure made chemists attempt its synthesis. We are currently trying some novel statistical approaches to synthesize it. A successful synthesis of MccJ25 will lead us to the development of a general strategy for the synthesis of other lasso peptides, catenanes and novel knot peptides which may have potential applications as antimicrobial or antiviral compounds.

Friday, Apr 21st 2023

11:00 AM (Tea / Coffee 10.45 AM)

Seminar Hall, TIFR-H