



**DEPARTMENT OF CHEMISTRY
PONDICHERRY UNIVERSITY**

Invites you to the lecture on

**“Sugars-based Macrocycles and Amphiphiles
for Drug Delivery Applications”**

By

Prof. Ashok K. Prasad
Department of Chemistry
University of Delhi
Delhi- 110 007 (India)

18th November 2015 (Wednesday)

Time: 3.00 pm

Venue: Department of Chemistry, PU

(Prof. K. Tharanikkarasu)
(HOD)

**PROFESSOR & HEAD
DEPARTMENT OF CHEMISTRY
PONDICHERRY UNIVERSITY
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(Dr. C. Sivasankar)
(Seminar Coordinator)



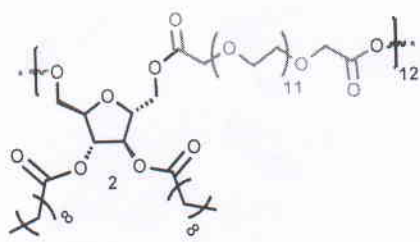
Dr. C. SIVASANKAR
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Department of Chemistry
Pondicherry University
Puducherry - 605 014, India

Sugars-based Macrocycles and Amphiphiles for Drug Delivery Applications

Ashok K Prasad

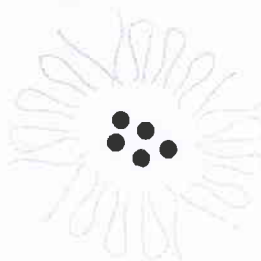
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The use of biocatalysts in the modification of sugars has become an attractive alternative over conventional chemical methods due to their selectivity and high efficiency. We have successfully used lipases for the synthesis of sugar modified bicyclic nucleosides. Further, we have used the modified sugar precursor for the synthesis of amphiphiles, chiral crown ether analogs and derived [2]pseudorotaxanes.

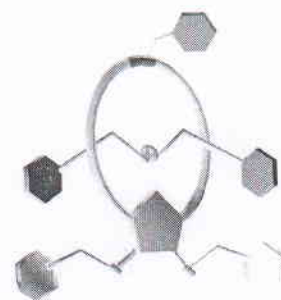


PEG 600
50 % acylation
C-10 alkyl chain

Amphiphilic Polymer



Drug Nanoformulation



[2]pseudorotaxanes

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