



INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI  
SHORT ABSTRACT OF THESIS

Name of the Student : OINDRILA BISWAS  
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Programme of Study : Ph.D.  
Thesis Title: Employment of synthetic ion transporter to disrupt ionic homeostasis in LUVs and cells  
Name of Thesis Supervisor(s) : Prof. Debasis Manna  
Thesis Submitted to the Department/ Center : Department of Chemistry  
Date of completion of Thesis Viva-Voce Exam : 12/04/2023  
Key words for description of Thesis Work :

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SHORT ABSTRACT

The thesis entitled “*Employment of Synthetic Ion Transporters to Disrupt Ionic Homeostasis in LUVs and Cells*” exemplifies the biological implications of a variety of synthetic anionophores. This thesis covers the recognition of the ions, transmembrane transport properties and possible therapeutic applications. The thesis has been divided into five chapters based on the experimental results gathered during the entire research period.