



तेजपुर विश्वविद्यालय

(केंद्रीय विश्वविद्यालय)

नपाम, तेजपुर - 784 028, असम, भारत

TEZPUR UNIVERSITY

(A Central University)

Napam, Tezpur - 784 028, Assam, India

Department of Chemical Sciences

A REPORT ON

Commonwealth Split-Site Ph. D. Scholarship, 2018 of Basanta Saikia

1. Name of the Collaborative Activity: Commonwealth Split-Site Ph. D. Scholarship
2. Nature of Activity: R&D
3. Name of the Collaborating Agency/ Individual with affiliation, and contact details: Commonwealth Split-Site Ph. D. Scholarship, Durham University, UK
4. Summary of collaboration: A strategic approach to control the polymorphism of two related drugs by introducing a drug-mimetic imide functional group into the molecular weight organogelator structure is presented. This was achieved with novel aminoglutethimide-derived bis(urea) organogelators designed to form gels that act as targeted crystallization media for (\pm)-thalidomide and barbital. The organogelators prevent concomitant crystallization, a serious issue for drug formulation and development. This work demonstrates the potential to control concomitant crystallization with rationally designed supramolecular gelators.
5. List of year-wise activities under the collaboration:
Activity 2018-19
Synthesis of Drug mimetic organogelators and control of concomitant crystallization of Barbital and Thalidomide

Signature and Seal of Head of Department/ Centre/ Cell

R. Borah
9.02.2022

Prof. & Head
Department of Chemical Sciences
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Name: Professor Ruli Borah
Designation: Professor & Head