



तेजपुर विश्वविद्यालय

(केंद्रीय विश्वविद्यालय)

नपाम, तेजपुर - 784028, असम, भारत

RKD

TEZPUR UNIVERSITY

(A Central University)

Napaam, Tezpur - 784028, Assam, India

(सर्वोत्तम विश्वविद्यालय के लिए कुलाध्यक्ष पुरस्कार, 2016, भारत के 100 श्रेष्ठ उच्च शिक्षण संस्थानों में पंचम स्थान और 'नाक' द्वारा 'ए' ग्रेड प्राप्त विश्वविद्यालय)
(Awardee of Visitor's Best University Award, 2016, 5th among India's Top 100 Universities, MHRD-NIRF-Ranking, 2016 and NAAC Accredited with "A" Grade)

A REPORT ON

Designing bioactive peptides from whey liquid waste of the dairy industry: Functionality and health benefit in Obesity, Obesity associated disorders with exploration of molecular mechanism

1. Name of the Collaborative Activity: Research (funded externally by DBT, GoI)
2. Nature of Activity : Research activity
3. Name of the Collaborating Agency/ Individual with affiliation, and contact details:

Dr. Raj Kumar Duary (Principal Investigator), Assistant Professor, Department of Food Engineering and Technology, Napaam, Tezpur University, Assam. Contact no : 9957669564

Collaborating Institute

Dr. (Mrs.) Krishna Das Saha Principal Technical Officer Cancer Biology & Inflammatory Disorder Division, CSIR-Indian Institute of Chemical Biology, Kolkata, West Bengal.

4. Summary of collaboration:

The research proposal on "Designing bioactive peptides from whey liquid waste of the dairy industry: Functionality and health benefit in Obesity, Obesity associated disorders with exploration of molecular mechanism" was submitted in joint collaboration of Dr Rajkumar Duary and Dr. (Mrs.) Krishna Das Saha To DBT. Rs 55.45 lakh was sanctioned for three years through sanction letter BTPR16828/NER/95/307/2015. The project was started on 18th October 2016 and completed on 31st March 2020.

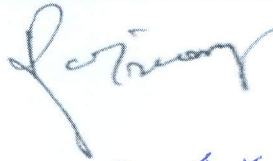

5. List of year-wise activities under the collaboration:

Activities: The target proteins α -lactalbumin and β -lactoglobulin with a rich amino acid composition was reported to be suitable for the preparation of bioactive peptides with the capacity to reduce ACE activity and oxidative-stress mediated obesity related diseases. Scientific & Technical expertise gained through twinning in NER: The in vivo expertise of ICM was gained.

No. of manpower (including PI & staffs) trained: Two (02)

No. of visits by Researchers/PI to various Institutes and vise-versa:

One (01)

Signature of Faculty	Signature and Seal of Head of Department/ Centre/ Cell
 Name: Dr. S. K. Duary Designation: Assistant Professor	 Name: Designation:

Department of Food Engg. & Technology
Tezpur University
Nepam, Tezpur- 784028, Assam

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Administrative
(Application No: AGR/2015/52)

File No. BT/PR16828/NER/95/207/2015
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block-2, 7th Floor,
CGO Complex, Lodhi Road
New Delhi-110003
Dated: 18/10/2016

ORDER

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Designing bioactive peptides from whey liquid waste of the dairy industry: Functionality and health benefit in Obesity, Obesity associated disorders with exploration of molecular mechanism" by Dr. Raj Kumar Duary, Tezpur University, Napaam, Assam and Dr. Krishna Das Saha, Indian Institute of Chemical Biology, West Bengal at a total cost of ₹ 54.55 lakhs (Rupees Fifty Four lakhs and Fifty Five thousand only) for a period of three years on the terms and conditions detailed as under:

2.0 The Project:

2.1 Project Title: Designing bioactive peptides from whey liquid waste of the dairy industry: Functionality and health benefit in Obesity, Obesity associated disorders with exploration of molecular mechanism.

2.2 Project Investigators

2.2.1 Principal Investigator: Dr. Raj Kumar Duary
(Parent Institute) Assistant Professor
Department of Food Engineering and Technology
Tezpur University, Napaam,
Sonitpur-784028, Assam

2.2.2 Principal Investigator: Dr. (Mrs.) Krishna Das Saha
(Collaboration Institute) Principal Technical Officer
Cancer Biology and Inflammatory Disorder
Division
CSIR-Indian Institute of Chemical Biology,
4, Raja S. C. Mullick Road, Acharya Road, Kolkata-
700032, West Bengal.

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