



तेजपुर विश्वविद्यालय/TEZPUR UNIVERSITY
(संसदके अवधवनयमद्वारा स्थापित केंद्र विश्वविद्यालयद्वीय)
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Collaborative Research Report

Collaboration of Dr. Pankaj Barah with Prof. P. B. Kirti, Hyderabad University (Retired), now scientist at NASI Platinum Jubilee Scientist at Agrobiotech foundation.
Project Title: 'Integrative system biology approach to identify the molecular response signatures in Rice during concurrent biotic (*Rhizoctonia solani*) and abiotic (heat) stresses'. Start Date: 20/07/2018 End Date: 20/07/2021.

Activities carried out:

Year1: Conducting experiments of rice infected with *R. solani*. Sequencing and data generation. Year2: Data deposition at NCBI, Data analysis, KRiShI Data mining. Year3: Data analysis, KRiShI completion, Publication.

Following data base have been created.

<http://www.tezu.ernet.in/krishi/>

Knowledgebase for Rice Sheath Blight Information (KRiShI) is a manually curated user-friendly knowledgebase for rice Sheath Blight (SB) disease .

<https://www.tezu.ernet.in/CombiStress/index.php>

PlnCos is a knowledge base for combined stress in 12 crop plants.

Dr. Pankaj Barah has developed active collaborations with Dr. Bhubaneswar Borooah Cancer Institute (BBCI) to study various cancers in North-East India. MoU with Dr. Bhubaneswar Borooah Cancer Institute (BBCI) was signed. Two PhD scholars and 2 master students from the Department of MBBT have been carrying out research work at BBCI. Two collaborative research projects have been obtained and a few publications (research paper, review articles, book chapters) have been authored. Collaboration with Prof. (Dr.) Subhash Khanna, a former professor of Surgery, Gauhati Medical College and current director of Swagat Super Speciality Hospital (Institute), Guwahati has signed MoU with Swagat Super Speciality Hospital for research and academic collaborations with aim to study gallstone diseases and gallbladder cancer in North East India.

Signature of Faculty 	Signature and Seal of Head of Department/ Centre/ Cell
Name: Dr. Pankaj Barah	Name: Robin Doloy
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