**Project Title:** The Nature of Impact of Abiotic Stresses on Three Diverse Freshwater Species of Fishes

**Project Code:** 2001

**PI Name:** Prof. Rina Chakrabarti

**Lead Centre:** Delhi University, Delhi

**Publications:**

Project Title: Deciphering the mechanism of aberrant maternal recognition of pregnancy (MRP) events in sheep and buffalo under heat and nutritional stress

Project Code: 2002

PI Name: Dr. Sukanta Mondal

Lead Centre: NIANP, Bangalore

Publications:

- Indu, S., Sejian, V. and Naqvi, S.M.K (2014) Effect of Short Term Exposure to Different Environmental Temperature on Physiological Adaptability of Malpura Ewes under Semi-Arid Tropical Environment. *Journal of Veterinary Science and Medical Diagnosis* http://dx.doi.org/10.4172/2325-9590.1000141
Project Title: Microencapsulation methods for bacteriocins for their controlled release

Project Code: 2003

PI Name: Dr. K. Narsaiah

Lead Centre: CIPHET, Ludhiana

Publications:


Project Title: Extraction and Microencapsulation of Nutraceuticals for Effective Delivery into Different Food Matrices

Project Code: 2004

PI Name: Dr. Abhijit Kar

Lead Centre: IARI, New Delhi

Publications:

acacia: an approach to preserve the functionality and controlled release of β-carotene. *International journal of Biological Macromolecules.* 87, 101–113


---

**Project Title:** Investigations on High Pressure Induced Effect on Quality Characteristics of Buffalo Milk

**Project Code:** 2005

**PI Name:** Dr. Ashish Kumar Singh

**Lead Centre:** NDRI, Karnal

**Publications:**


---

**Project Title:** Increasing the efficiency of microbial production of bioethanol from agricultural biomass

**Project Code:** 2006

**PI Name:** Dr. Lata Nain

**Lead Centre:** IARI, New Delhi

**Publications:**

- Sharma, Manju; Mahajan, Chhavi; Bhatti, Manpreet S. and Chadha, Bhupinder Singh (2016) Profiling and production of hemicellulases by thermophilic fungus
Malbranchea flava and the role of xylanases in improved bioconversion of pretreated lignocellulosics to ethanol.3 Biotech (2016) 6:30


Streptomyces sp. ssr-198. *Journal of Taiwan Institute of Chemical Engineering.* 45:2379-86


---

**Project Title:** Studies on Microalgal Triacylglycerols (TAGs) as a Source of Biodiesel

**Project Code:** 2007

**PI Name:** Dr. Nirupama Mallick

**Lead Centre:** IIT, Kharagpur

**Publications:**


• Mandal, S. and Mallick, N. (2012) Biodiesel production by the green microalga *Scenedesmus obliquus* in a recirculatory aquaculture system. *Applied and Environmental Microbiology* 78: 5929-5933
**Project Title:** Studies on sucrose accumulation for efficient ethanol production from sweet sorghum

**Project Code:** 2008

**PI Name:** Dr. C. V. Ratnavathi

**Lead Centre:** DSR, Hyderabad

**Publications:**

**Project Title:** Isolation of Clostridium strains and a two phase digestion system for efficient butanol production

**Project Code:** 2009

**PI Name:** Dr. Geeta G. Shirnall

**Lead Centre:** UAS, Dharwad

**Publications:**


**Project Title:** Development of pod borer resistant transgenic pigeonpea and chickpea

**Project Code:** 2010

**PI Name:** Dr. Bidyut K. Sarmah

**Lead Centre:** AAU, Jorhat

**Publications:**

Mediated Primary Interaction between Insecticidal Cry1Ac Toxin and HaALP Receptor of Helicoverpa armigera, *PLoS ONE* Volume 8 | Issue 10 | e78249


---

**Project Title:** Use of RNAi technology in developing low phytate soybean and rice

**Project Code:** 2011

**PI Name:** Dr. Archana Sachdev

**Lead Centre:** IARI, New Delhi

**Publications:**

- Kumar, Awadhesh, Kumar, Varun, Lal, S.K., Jolly, Monica and Sachdev, Archana (2014) Influence of gamma rays and ethyl methane sulphonate (EMS) on the levels of phytic acid, raffinose family oligosaccharides and antioxidants in soybean seeds of different genotypes, *Journal of Plant Biochemistry & Biotechnology* (DOI10.1007/s13562-014-0282-6)

**Project Title:** Identification of nucleopolyhedrovirus (NPV) encoded proteins and small RNAs and the feasibility of their expression in plant to control *Helicoverpa*

**Project Code:** 2012

**PI Name:** Dr. Raj K. Bhatnagar

**Lead Centre:** ICGEB, New Delhi

**Publications:**

**Project Title:** Regulation of fatty acid synthesis by RNA interference in pig

**Project Code:** 2013

**PI Name:** Dr. Sujoy Kumar Dhara

**Lead Centre:** IVRI, Izatnagar

**Publications:**


**Project Title:** Phenomics of moisture deficit and low temperature stress tolerance in rice

**Project Code:** 2015

**PI Name:** Dr. Viswanathan Chinnusamy

**Lead Centre:** IARI, New Delhi

**Publications:**

**Project Title:** Unravelling biochemical and molecular basis of bacterial and fungal endosymbiosis for management of abiotic stresses in plants

**Project Code:** 2016

**PI Name:** Dr. K. K. Pal

**Lead Centre:** DGR, Junagarh

**Publications:**


---

**Project Title:** Improvement in Cotton Fabric Quality by Plasma Nano-technology: An Eco-Friendly Approach

**Project Code:** 2017

**PI Name:** Dr. Kartick K. Samanta

**Lead Centre:** CIRCOT, Mumbai

**Publications:**

Cotton”, International Journal of Engineering Research & Technology, 3 (03), 2467-2477


Project Title: Genomics for augmenting fibre quality improvement in jute

Project Code: 2018

PI Name: Dr. D. Sarkar

Lead Centre: CRIJAF, Barrackpore

Publications:

**Project Title:** Genetic manipulation based enhancement of microbial phosphate and nitrate remediation for waste water treatment

**Project Code:** 2019

**PI Name:** Dr. Shaon Ray Chaudhuri

**Lead Centre:** WBUT, Kolkata

**Publications:**


---

**Project Title:** Capture and removal of ammonia from fish processing waste water using Archaea

**Project Code:** 2022

**PI Name:** Dr. B.B. Nayak
**Lead Centre:** CIFE, Mumbai

**Publications:**


**Project Title:** Bioremediation of agrochemicals and heavy metals present in Yamuna and drainage water used for irrigation in urban and peri-urban agricultural areas

**Project Code:** 2023

**PI Name:** Dr. Dileep Kumar Singh

**Lead Centre:** DU, New Delhi

**Publications:**

- Madhu and Singh, Dileep K. (2014) Endosulfan induced alteration in bacterial protein profile and RNA yield of Klebsiella sp. M3, Achromobacter sp. M6, and


**Project Title:** Crop Simulation Studies to Understand the Effect of Moisture and Temperature Stress on Growth and Yield of Wheat

**Project Code:** 2024

**PI Name:** Dr. P. Krishnan

**Lead Centre:** IARI, New Delhi

**Publications:**


**Project Title:** Decision Support System for Enhancing Water Productivity of Irrigated Rice-Wheat Cropping System

**Project Code:** 2025

**PI Name:** Dr. A. Sarangi

**Lead Centre:** IARI, New Delhi

**Publications:**