

**Department of Biotechnology**  
**Ministry of Science & Technology**  
**Government of India**  
**(International Cooperation –Bilateral Division)**

**Result of DBT-IC-IMPECT Indo-Canada Joint Call on “Building Resilient and Carbon-Neutral Communities Post Covid”-2022**

Under the Bilateral MoU between the Department of Biotechnology and Natural Sciences & Engineering Research Council of Canada (NSERC), an Indo-Canada Joint Call on “Building Resilient and Carbon-Neutral Communities Post Covid” was announced on 15<sup>th</sup> July, 2022 and opened till 14<sup>th</sup> September, 2022. The priority areas for DBT were Agritech & Food Security; and Health, Post COVID Health Issues & Long COVID.

Under this Joint Call, total 27 proposals were received. These proposals were independently evaluated by Expert Committee of India as well as Canada followed by matchmaking of list of proposals recommended from both the sides. The following five proposals were finally recommended for financial support from both the sides with mutual consent:

Sr. No.	Project Title	Name of the Indian PI & Affiliation	Institute of the Canadian PI & Affiliation
1.	Intelligent portable Ultrasound imaging based continuous lung and heart monitoring system for post- COVID19 assessment	Dr. Mahesh Raveendranatha Panicker Indian Institute of Technology, Palakkad E-mail: mahesh@iitpkd.ac.in	Dr. Abhilash Rakkunedeth Hareendranathan, University of Alberta
2.	Understanding and Exploiting the role of eukaryotic Energy sensor TORKinase in Enhancing thermo-tolerance and drought resistance in model and crop plants	Dr. Ashverya Laxmi, National Institute of Plant Genome Research, New Delhi E-mail: laxmiashverya@rediffmail.com	Prof. Raju Datla & Prof. Leon Kochian, Global Institute for Food Security, University of Saskatchewan, Canada
3.	Methylotrophs driven bioconversion of C1 compounds to Carotenoids for mitigation of greenhouse gas, enhancing nutrient uptake and alleviation of UV radiation stress in agriculture	Dr. Santosh Mohanty ,Indian Institute of Soil Science, Bhopal E-mail: mohantywisc@gmail.com	Dr. SinaAdl, University of Saskatchewan
4.	Trash is cash – Turning unmerchantable crop and forest residues into high value, carbon negative fertilizers for regenerative farming in rural communities	Dr. Sonal Thengane, Indian Institute of Technology, Roorkee E-mail: thenganesonal@gmail.com	Prof. Anthony Lau, University of Quebec Trois-Rivieres, British Columbia
5.	An UltraSensitive Plant-Care Monitoring System with Quantitative and Real-Time Data Analysis	Prof. Prashant Mishra, Indian Institute of Technology, New Delhi E-mail: pmishra@iitd.ac.in	Dr. NazirKherani, University of Toronto