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On-Going Research Projects

Centre Project (Prof. D. Pental & Prof. A.K. Pradhan), BIPP, DBT, 2010-2016 entitled “To Conduct Confined Field Trials and Biosafety Studies on Genetically Engineered *Brassica juncea* (Male Sterility and Restorer Lines as Pollination Control Mechanism) for Heterosis Breeding and Yield Improvement”, Rs. 8.00 Crore.

Centre Project (Prof. D. Pental, Prof. A. K. Pradhan, & Prof. J. Kaur), DBT, R&D Project, 2015-2020 entitled “Centre of Excellence on Genome Mapping and Molecular Breeding of Brassicas”, Rs. 4.87 Crore.

Centre Project (Prof. D. Pental), DBT, R&D project, 2015-2018 entitled “Developing Genetics and Genomic Interface to Develop Strategies for Sustainable Use of Resistance to White Rust in Oilseed Mustard (*Brassica Juncea*)”, Rs. 1.89 Crore.

Centre Project (Prof. A. K. Pradhan), DBT, R&D Project, 2015-2018 entitled “Broadening The Genetic Diversity Underpinning Seed Quality and Yield Traits in Mustard Rape and Oilseed Rape”, Rs. 1.04 Crore.

CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION AND TRAINING

Major Activities and Achievements

Centre for Innovation in Infectious Disease Research, Education and Training (CIIDRET) has been established under ordinance XI-A in October 2015. Its research aims include innovative approaches towards developing diagnostics, prophylactics and therapeutics for infectious diseases plaguing India, such as Tuberculosis, Malaria, Typhoid HIV (AIDS), Chikungunya and Dengue infections. The other objective is to utilize available, and to create new state-of-the-art Proteomic and Genomic facilities, and to train undergraduate, post-graduate students and, research scholars to enhance their skills in advance techniques and technologies, beyond their regular classroom learning, through short-term and long-term courses. Yet another aim of the centre is to interact with Biotech Industries to provide consultancy and to provide solutions through expertise and facilities available with scientists/teachers involved in CIIDRET.

CIIDRET undertook an Industrial project for “producing single cell clones of hybridoma” from M/s SPAN Diagnostics Limited, Surat for a total sum of Rs.7.70 lakh. Major part of the fund was for procuring consumables and some portion was earned as consultancy/intellectual fee.

Prof. Vijay K. Chaudhary, Director, CIIDRET is providing support as advisor/consultant to M/s Yashraj Biotechnology Ltd., Navi Mumbai, from April 1, 2016.

Honours/Distinctions

Prof. Vijay K. Chaudhary is the Co-Chairman of the Task Force “DBT-Boost to University Interdisciplinary Life Science for Education and Research (DBT – BUILDER).

Research Projects

A Centre of excellence entitled “Antibody Technology: Research for Therapeutic and Diagnostic Application” has been recommended by the DBT Task Force for financial support of approximately Rs. 7 crore. The final sanction letter is expected in the next financial year.

DBT supported DNA sequencing facility has been upgraded to include microarray on Agilent platform and Next Generation Sequencing on MiSeq platform and has been renamed as “DBT-supported Genomic Facility at University of Delhi South Campus”.

Presentation in Conferences

Prof. Vijay K. Chaudhary

Delivered lecture in a “Symposium on Breakthrough and New Challenges in the Diagnosis and Management of Tuberculosis” held at MGM Institute of Health Sciences, Navi Mumbai during March 18-19, 2016.

Delivered foundation day lecture on “The Magic of Antibodies” organized by National Institute for Research in Tribal Health, Jabalpur (ICMR – NIRTH) on March 1, 2016.

Made a presentation in “Global Biotechnology Summit-2016” celebrating 30 years of Biotechnology in section “Swatch Bharat Swasth Bharat: Innovation for a Healthy Nation” during February 5-6, 2016.

Attended as the Chief Guest and delivered inaugural lecture on “Science: My Inspiration” in the “INSPIRE (Innovation in Science Pursuit for Inspired Research) Internship Program” an initiative of Department of Science and Technology (DST), Government of India held at AMITY University Campus, Manesar on November 24, 2015.

Prof. Vijay K. Chaudhary & Dr. Amita Gupta displayed a competitively selected poster describing their innovation “TB Confirm: A Rapid Test for Culture Confirmation of Mycobacterium Tuberculosis for Detection of TB” at exhibition on “Innovation in Medical Science and Biotechnology” held at the Lawn of Rashtrapati Bhawan, New Delhi on March 16, 2016.