

DBT Builder CAT III

at

**Dr. Vikram Sarabhai Institute of
Cell and Molecular Biology (VSICMB)**

2021-2025

DBT-Boost to University Interdisciplinary Life Science Departments for Education and Research Programme (DBT-BUILDER) - Level III - Cat-III programme is a prestigious grant awarded to Dr. Vikram Sarabhai Institute of Cell and Molecular Biology from 2021 – 2026 by Department of Biotechnology, India.

Under this project, 10 investigators from different departments are collaborating for interdisciplinary research in following three research themes.

- 1. Metabolic disease and stem cell therapy**
- 2. Metabolic and neurological disorder**
- 3. Plant therapeutics and bioinformatics**

The DBT-BUILDER programme contain following team members.

Project Co-ordinator: Prof. Sarita Gupta (Dept. of Biochemistry and VSICMB)

Project Principal Investigator:

Prof. Rajesh Singh (Dept. of Biochemistry)

Prof. Devarshi Gajjar (Dept. of Microbiology)

Project Co-Investigators:

Prof. Suresh Balakrishna (Dept. of Zoology)

Dr.LaxmipriyaP.Nampoothiri(Dept. of Biochemistry)

Dr. NagarPadamanabhi S. (Dept. of Botany)

Dr. Prakash Pillai (Dept. of Zoology)

Dr. Ravi Vijayvargia (Dept. of Biochemistry)

Dr. Mayur Sahani (VSICMB)

The funds provided by DBT under this programme are for high end state-of-the-art equipments, consumables and services for the next 5 years. Moreover, several academic activities like workshops, training, etc. will be carried out under this project within next 5 years. A Research Associate, two Junior Research Fellows and two Project Associates are also recruited under DBT CAT Builder III- programme. The funding provided by DBT for the tenure of 5 years is in the tune of 8.4 crores.

A four-day hands-on national training workshop titled "Exosome Characterization and Application" was organised by Dr. Vikram Sarabhai Institute of Cell and Molecular Biology from 27th - 30th July 2022 under DBT BUILDER CAT III programme. The workshop provided hands-on training to the participants in key techniques of exosome isolation, quantification, characterization, labelling and uptake. Additionally, the workshop also covered aspects of bioinformatics analysis and mechanisms of cargo packaging in EVs by renowned experts in the field of EV biology. Plenary talks and expert talks were organized in which various international and national speakers delivered talks. MalvernPanalyticals and

Particle Matrix brought their instrument and also delivered technical talks on principle, technology and data analysis. The workshop was successfully conducted with twenty participants (PhD students, faculties and medical doctors) from all over the India from various national institutes and state universities.

