



Department of Microbial Biotechnology

Panjab University (South Campus)
Sector 25, Chandigarh - 160014

OUR DEDICATION WILL
BRING OUT YOUR
EXCELLENCE

DEPARTMENT OF MICROBIAL BIOTECHNOLOGY
E-YUVA-PU (Funded by BIRAC)
BioNEST-PU (Funded by BIRAC)



*Quality education intertwined with
cultural advancement*

CONTACT US

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<https://microbialbiotechnology.puchd.ac.in/>

Panjab University (South Campus, Near Dental
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From the desk of Chairperson



Dr. Rachna Singh

In today's world, education means much more than acquiring knowledge; it also involves building up of skills, conduct, outlook and employability. At DMBT, as we fondly call our department, we focus on this holistic development. We envision to provide an all-inclusive learning experience to our students, blending academics with practicality and real-world challenges, along with co-curricular and extracurricular involvement. The skill sets and expertise of our faculty are varied and complimentary, training our students for diverse aspects of microbiology and biotechnology. The department also regularly invites experts from academia and industry, to apprise the students of recent trends in Microbial Biotechnology and ensure their readiness for the future.



About the Department

The department of Microbial Biotechnology aims to bring about the actual definition of the subject through its teaching program, which has been designed in consultation with experts from both academia and industries. Currently, the department runs Master's and Doctoral degree programs. The M.Sc. program comprises of four semesters, dedicated to strengthen the theoretical and practical foundation of the students, along with a research project/dissertation and seminars. The course caters to the growing needs of Microbiology and Biotechnology research and development, including interdisciplinary approach, translational work and entrepreneurship. The department alumni are well placed in their chosen professions. Our students are successfully working in corporate sector. Many are actively engaged in research and development across leading institutes of our country and abroad. Several students have established their own start-up companies.

Message From Faculty



Dr. Rohit Sharma

"More important than being brilliant is to be more consistent"



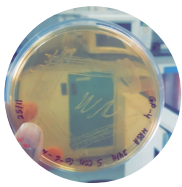
Dr. Kavleen Kaur

"Winners are not those who never fail but are those who never quit"



Dr. Neeraj Pahuja

"Our mission is to provide excellent teaching & meticulous research oriented training towards an enlightening INDIA"

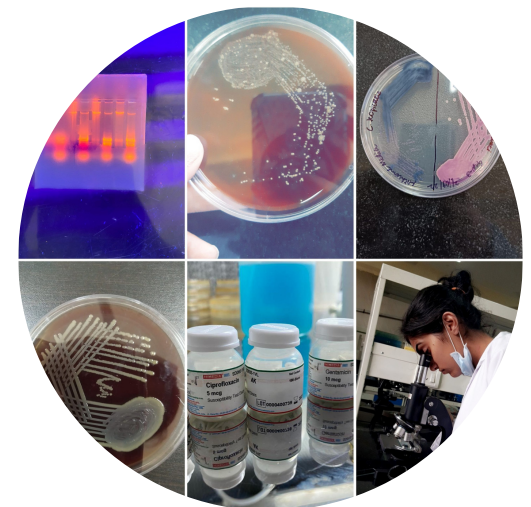
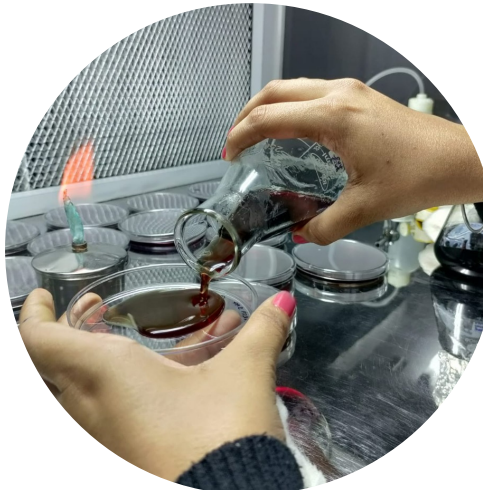


Course Skill Set

- Microbial Biodiversity & Physiology
- Microbial Biochemistry & Enzymology
- Genetics, Recombinant DNA technology & Molecular biology
- Industrial Microbiology & Bioprocess Engineering
- Immunology & Immunotechnology
- Medical Microbiology
- Microbial Identification, Diagnostics & Nanobiotechnology
- Advances in Microbial Biotechnology (Genomics, Proteomics, Metabolomics)
- Intellectual Property Rights (IPR), Bioethics & Entrepreneurship
- Bioinstruments and their Applications
- Biosafety and Biosecurity
- Principles of Drug development
- Bioinformatics and Biostatistics

Hands-On Learning

- Microbial Identification
- Sophisticated Instrumentation
- Nucleic Acid Extraction, Amplification and Typing
- Enzymatic Assays
- Patent Writing
- Immunoassays
- Staining and Microscopy
- Gel Electrophoresis
- Nanoparticles Synthesis
- Basic Microbiological Techniques
- Enzyme Production and Condition Optimization
- Primer Designing
- Isolation and Characterisation of Probiotics
- Deciphering 3D structure of Proteins



M.sc MBT Batch 2021-23



Abha



Kiran Pundir



Pallavi Sharma



Shivani Kaushal



Akshita Shakshi



Mannat Bhalla



Priyanka Mohapatra



Tanmay Ghildiyal



Alisha Kashyap



Manpreet Kaur



Rashika Kadyan



Vanshika Sharma



Avantika



Niharika



Sania Khurrana



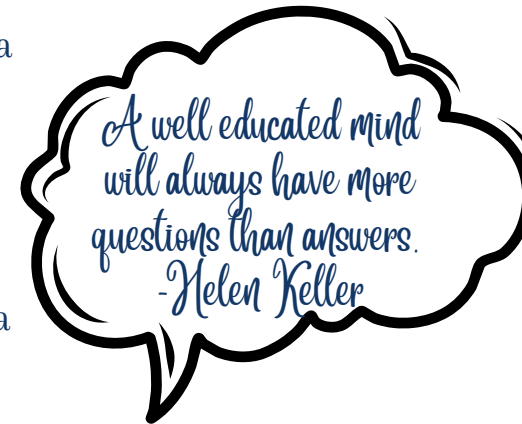
Devika Maggo



Nidhi Verma



Shivam Kanojia



*A well educated mind
will always have more
questions than answers.
-Helen Keller*

Co-curricular and Extra Curricular Activities

Webinar Series on "Drug Development: a Biotechnology perspective" organized by
Department of Microbial Biotechnology, 2022



Dr. Pawan Singh
Senior Director - CDMA
Biocon Biologics Ltd., Bengaluru

Principles of Drug
Discovery



Ronak Patel
Senior Manager, Research & Development, Intas
Pharmaceuticals Ltd., Ahmedabad

Predclinical evaluation of
biopharmaceuticals



Dr. Dharma Rao Uppada
Group lead-Medical Operations
Dr. Reddy's Laboratories Ltd., Hyderabad

Clinical trials and the various
phases



Dr. Yogananth Rajendran
Head, Regulatory Affairs,
Immuneel Therapeutics Pvt. Ltd., Bengaluru

Rules and regulations governing
biopharmaceuticals and clinical
trials



Kishore Kumar S
Deputy General Manager Operations,
Intas Pharmaceuticals Ltd., Ahmedabad

Good Manufacturing Practices

"Creativity is intelligence having fun" - Albert Einstein



Freshers 2K22



Teacher's Day celebration



Diwali celebration



Slogan writing competition on the theme
'Corruption free India for a developed
nation'



Independence day celebrated by students and
faculty of Department of Microbial Biotechnology



Digital exhibition to commemorate birth
anniversary of Sardar Vallabhbhai Patel as National
Unity Day at Deptt. of Microbial Biotechnology.

A Glimpse Of Our Alumni...



Dr. Radhika Trikha
DST Science, Technology and Innovation-
Senior Policy Fellow
DST-Centre for Policy Research, IISc, Bangalore



Karan Sharma
Regional Manager - Cytiva



Dr. Sanjeev Kumar
Senior Safety Specialist
ThermoFisher Scientific, Ontario, Canada



Sheenam Gautam
Founder COO Co Campus Inc.
Co-founder and Partner
Engyin Labs



Simmi Sahore
Senior Analyst (Medical Writer)
Medical Services, Accenture, Bangalore



Amanat
Junior Executive (QC)
Panacea Biotech



Alka Arora
Ph.D. scholar, RMIT School of Life Sciences
Melbourne, Australia



Aanchal Sehgal
TMF Compliance Specialist
Syneos Health



Shiv Kumar
Executive (Downstream processing)
Intas Pharmaceuticals Ltd., Gujrat.



Tannya Sharma
Pharmacovigilance Scientist
Continuum India LLP



Nakshdeep Kaur Kahlon
Inspector, Canadian Food Inspection Agency



Riya Thakur
Research associate
Mankind Pharma

A Glance at

DEPARTMENT OF MICROBIAL BIOTECHNOLOGY



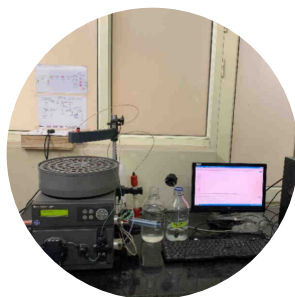
Library



Computer lab



Research lab



Research lab



Research lab



Seminar Hall



Entrance Hall Of DMBT