



# Department of Microbial Biotechnology

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

OUR DEDICATION WILL  
BRING OUT YOUR  
EXCELLENCE



*Quality education intertwined with  
cultural advancement*

## CONTACT US

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

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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"

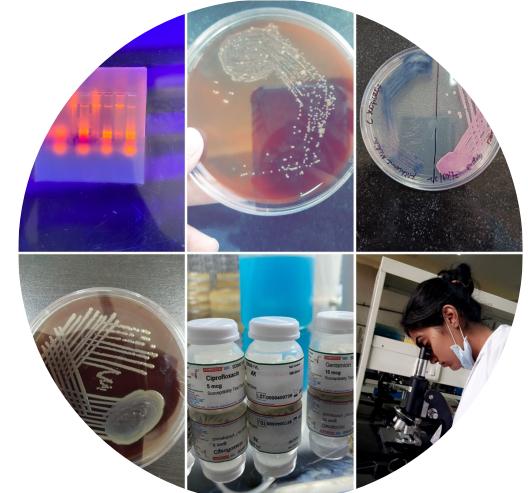


# Course Skill Set

- 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,  
Bioccon Biologics Ltd., Bengaluru



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



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



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



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

Principles of Drug  
Discovery

Preclinical evaluation of  
biopharmaceuticals

Clinical trials and the various  
phases

Rules and regulations governing  
biopharmaceuticals and clinical  
trials

Good Manufacturing Practices



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



Freshers 2K22



Teacher's Day celebration



Diwali celebration



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 Biotec



**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., Gujurat.



**Tannya Sharma**  
Pharmacovigilance Scientist  
Continuum India LLP



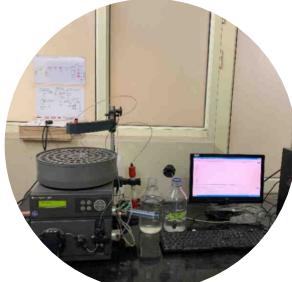
**Nakshdeep Kaur Kahlon**  
Inspector, Canadian Food Inspection Agency



**Riya Thakur**  
Research associate  
Mankind Pharma



**Research lab**



**Research lab**



**Research lab**



**Seminar Hall**



**Entrance Hall Of DMBT**

# *A Glance at* DEPARTMENT OF MICROBIAL BIOTECHNOLOGY



**Library**



**Computer lab**