



# MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES

MANIPAL  
(A constituent unit of MAHE, Manipal)

## Certificate Course in Translational Research



Through online video conferencing platform

23-02-2021 to 27-02-2021

*Organized by*

**Department of Pharmacy Practice**  
Manipal College of Pharmaceutical Sciences  
Manipal Academy of Higher Education  
Manipal, Karnataka – India



### COURSE OVERVIEW

#### TRANSLATIONAL RESEARCH

The current thrust in medical research is on translation research. Translation research follows a two way direction from bench to bedside and bedside to bench to translate discoveries into clinical application and the translation of clinical findings into the understanding of molecular mechanisms to a genomic level.

#### ABOUT THE PROGRAM

The program is mainly intended for initiating translational research studies through a interdisciplinary/multidisciplinary and multi-institutional integrated learning approach. This is expected to allow new ideas to be investigated in a more expeditious manner and equip the researchers from both clinical and basic science backgrounds for pursuing new clinical or laboratory approaches for creating more avenues of creative and productive research to improve patient outcomes in clinical practice.

#### THE FOLLOWING SESSIONS WILL BE CONDUCTED BY VIRTUAL INTERACTION

- Basic principles of translational research
- Basics of DNA, RNA and protein synthesis
- Human genome project
- Genomic technologies
- Proteomics
- Pharmacogenomics/ Precision medicine
- Drug discovery & preclinical research
- Clinical research methods
- Big data, artificial intelligence, machine learning
- Ethics in clinical research
- Biostatistical methods in clinical research
- Regulatory standards for clinical research in India
- Epidemiological research methods
- Public health policy strategies
- Health outcome measurements
- Bedside to bench (T5-T1)

#### SCOPE OF THE COURSE

- Acknowledge the basic principles and goals of translational studies research.
- Recognize and utilize basic empirical research methods in translational studies.
- Integrate theoretical findings and empirical research work.
- Plan doctoral thesis in translational research.
- Ability to theoretically approach translational-related phenomena and to use this ability for didactic and research aims.

<b>Course Code</b>	<b>C 38</b>
<b>Participants</b>	Students pursuing post graduate degree (M.Sc/ M.Pharm / PharmD /MD /MS /DM /MCh). PhD scholars and research scholars in any discipline of biological sciences – life sciences, biotechnology, biochemistry, microbiology, pharmacy and genetics.
<b>Duration</b>	A total of 32 hours of courses spread over 5 days
<b>Credit</b>	2 credits
<b>Selection process</b>	The seats are offered on a first come first serve basis.
<b>Expected Number</b>	50 participants
<b>Course Fee</b>	MAHE PhD scholars/students and faculty – Rs.1,000 Others : Rs.1,300
<b>Delivery Mode</b>	This course will be delivered via online video conferencing platform
<b>Date</b>	23-02-2021 to 27-02-2021
<b>Course Trainers</b>	Resource persons with expertise in the relevant area from both academia and industry from India and abroad.
<b>Registration Link</b>	<a href="https://sis.manipal.edu/CertificateCourses.aspx">https://sis.manipal.edu/CertificateCourses.aspx</a>
<b>Deadline for Registration</b>	Jan 30 <sup>th</sup> 2021
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