



Highlights of the course

- ❖ 6 weeks of certification course
- ❖ Convenient timings (4 pm-6 pm) on Monday, Tuesday, Wednesday & Thursday
- ❖ Experts from various fields of basic, pharmaceutical and clinical research
- ❖ 3 Credits

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.

COURSE CONTENTS

- Basic principles of translational research
- Human genetics and genome
- Pharmacogenomics
- Genomic technologies
- Use of biomarkers in translational medicine
- Transcriptomics, proteomics & metabolomics
- Drug discovery and development
- Basics of clinical pharmacology
- Pharmacokinetics and metrics
- Key concepts of drug delivery
- Clinical trials
- Ethics in biomedical research
- Clinical research: grants & contracts
- Publication and patent of research
- Epidemiological research methods
- Systematic reviews & meta-analysis
- EBM in clinical practice
- Pharmacoeconomics
- Use of questionnaires and surveys
- Health outcome measurement
- Public health policy strategies
- Case studies

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.

WHO CAN ATTEND THE PROGRAM

- Students pursuing post graduate degree (M.Sc/BPharm/MPharm/PharmD/MD/MS/DM/MCh).
- PhD Scholars and Research Scholars in any discipline of biological sciences (Life Sciences, Biotechnology, Biochemistry, Microbiology, Pharmacy, Genetics).

HOW TO ENROLL

- **Selection process:** The seats are offered on a first come first serve basis.
- **Intake:** The number of participants is limited to 20.
- **Commencement of the course:** 16th January 2019
- **Course fee:** Rs. 4000/-
- **Payment details:** Interested candidate will pay the fees online by using the following link: <https://sis.manipal.edu/CertificateCourses.aspx>
The course code should be selected as C38.
On successful payment, the applicants should send a copy of the payment receipt to the below mentioned email address.

For more details:

Email: translational@manipal.edu

Contact: 7907520140