PHARMATECH-2025

Glimpses of Pharmacology: Preclinical to Real World Evidence

**Scientific Programme**

**Module 1 (Virtual)**

Preclinical Research and Statistics

Tuesday, 23rd September 2025 to Friday, 26th September 2025

**23rd September (Tuesday) – Day 1 Virtual**

| **Time** | **Session** | **Speaker** |
| --- | --- | --- |
| 12.00 PM - 12.30 PM | Introduction to module 1 | Dr. Raakhi Tripathi |
| 12.30 PM - 1.30 PM | Role of preclinical models in predicting human outcomes | Dr. Nirmala Rege |
| **1.30 PM - 2.00 PM** | **Lunch break** | |
| 2.00 PM - 2.45 PM | Toxicity testing in the 21st century: Perspectives and challenges | Dr. Hari Narayan Rao |
| 2.45 PM-4.30 PM | Data types, data summarization and sample size calculation (with group tasks) | Dr. Raakhi Tripathi |

**24th September (Wednesday) - Day 2 Virtual**

| **Time** | **Session** | **Speaker** |
| --- | --- | --- |
| 11.30 AM - 12.15 PM | Alternatives to animal experimentation | Dr. Ajit Dash |
| 12.15 PM - 1.00 PM | Preclinical imaging in drug discovery | Dr. Sanket Raut |
| **1.00 PM - 1.45 PM** | **Lunch Break** | |
| 1.45 PM - 3.45 PM | **Video Demonstration of preclinical models – I**   1. Centre for Animal Studies, CNS and Experimental laboratories, Pharmacology Research Laboratories & Multidisciplinary Research Unit 2. Video Tracking Software Demonstration of Elevated Plus Maze and Morris Water Maze 3. Post-traumatic Stress Disorder Model in Golden Syrian Hamsters 4. A Model of Dextran Sodium Sulfate (DSS) Induced Chronic Colitis in Swiss Albino Mice 5. Complete Freund’s Adjuvant (CFA) induced model of Rheumatoid Arthritis in Wistar Rats | Department of Pharmacology & Therapeutics, Seth  G.S. Medical College and K.E.M. Hospital, Mumbai. |
| 3.45 PM- 4.45 PM | Inferential statistics (with group tasks) | Dr. Saurabh Patil |

**25th September (Thursday) – Day 3 Virtual**

| **Time** | **Session** | **Speaker** |
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| 12.00 PM - 1.30 PM | Ethical issues in conducting and publishing preclinical research studies (with group tasks) | Dr. Sandhya Kamat &  Dr. Shruti Bhide |
| **1.30 PM - 2.00 PM** | **Lunch Break** | |
| 2.00 PM - 4.15 PM | **Video demonstration of preclinical models – II**   1. Chick Chorioallantoic Membrane (CAM) assay 2. Effect of Drugs on Aging in Drosophila 3. Stereotactic Model of Parkinson’s Disease 4. Pentylenetetrazole induced Kindling Model of Epilepsy in Rats 5. Model of Ovulation Induction | Department of Pharmacology & Therapeutics, Seth  G.S. Medical College and K.E.M. Hospital, Mumbai. |
| 4.15 PM - 5.00 PM | Survival analysis – clinical relevance | Dr. Kritarth Singh |

**26th September (Friday) – Day 4 Virtual**

| **Time** | **Session** | **Speaker** |
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| 12.00 PM - 1.30 PM | Effective literature search and selecting a journal for publication (with group tasks) | Dr. Paresh Koli |
| **1.30 PM - 2.15 PM** | **Lunch Break** | |
| 2.15 PM - 3.45 PM | How to conduct meta-analysis and systematic review (with group tasks) | Dr. Sudeep Shah |
| 3.45 PM - 4.00 PM | Instructions for ice breaking in offline session | Dr. Raakhi Tripathi |
| 4.00 PM - 4.45 PM | Artificial intelligence in drug discovery | Dr. Manoranjan D’souza |
| 4.45 PM - 4.50 PM | Concluding remarks | Dr. Raakhi Tripathi |