

2025

CNU X MUM

Chungnam National University (CNU)  
Monash University Malaysia (MUM)

## Winter Session for Clinical Pharmacy Research

WSCPR

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### 01 Academic Achievement



CNU-MUM invites students to WSCPR (Winter Session for Clinical Pharmacy Research), where they will enjoy excellent lectures and hands-on related with clinical pharmacy research (e.g., pharmacometrics, TDM etc). In addition, students will have a chance to observe community pharmacy, hospital pharmacy and clinical trial center during the session.

### 02 Activities

- Orientation & Campus Tour
- Gala dinner
- Community & hospital pharmacy/ Clinical Trial Center tour
- Lecture & Hands-on: Team based learning and practice

### 03 Important Dates & Application

- Nomination Deadline: Approximately early November each year
  - All participants must be nominated by their home university before applying.
- Online Application Deadline: To be determined (TBD)
- Required Documents:
  - Passport copy (color scan of the photo page only)
  - Official Certificate of Enrollment from the home university
  - Proof of insurance
  - One ID photo

### 04 Program Fee: Free

- The CNU team is responsible for overseeing matters related to coursework.
- Participants are responsible for their own accommodation, flight fares, overseas health insurance, and living expenses in Korea.
- While CNU can provide participants with dormitory information and schedules, it cannot guarantee room availability or reservations.

### 05 Course Detail and Timetable

#### ✓ 1 week Short-term session for Winter break (Approximately the First week in Feb)

- Location: College of Pharmacy, CNU, Daejeon, South Korea
- Main theme: Lecture and hands-on workshop for clinical pharmacy research (e.g., pharmacometrics, Therapeutic Drug Monitoring (TDM), systematic review and meta-analysis and Model-Based Meta-Analysis (MBMA) etc.)
- Subject: Introductory clinical pharmacy 2 credits

Day	Mon	Tue	Wed	Thu	Fri
Morning	Orientation & Campus tour	Lecture & Hands-on-2	Lecture & Hands-on-4	Lecture & Hands-on-6	Community & hospital pharmacy & CTC tour
Afternoon	Lecture & Hands-on-1	Lecture & Hands-on-3	Lecture & Hands-on-5	Lecture & Hands-on-7 (Gala dinner)	Feedback & Completion ceremony

Subjects	Schedule	Contents
Lecture & Hands-on-1	Mon, 13:30~17:30	Software installation Introduction for pharmacometrics / Therapeutic drug monitoring Model building and evaluation – Structural PK modeling
Lecture & Hands-on-2	Tue, 9:30~11:30	Model building and evaluation – Covariate PK modeling – Bootstrap/Literature based external evaluation
Lecture & Hands-on-3	Tue, 13:30~17:30	PK/PD modeling concepts and practices – How to develop PK/PD modeling – Practice for PK/PD modeling and simulation
Lecture & Hands-on-4	Wed, 9:30~11:30	Survival analysis concepts and practices – Time-to-event theory – Practice for survival analysis – Integration of PK/PD/Survival analysis
Lecture & Hands-on-5	Wed, 13:30~17:30	Platform development to apply the model into clinical setting – R shiny introduction and overview – R shiny base experiences
Lecture & Hands-on-6	Thu, 9:30~11:30	Platform development to apply the model into clinical setting – Simulation based optimal dose study – Bayesian forecasting in platform – Deploy R shiny platform
Lecture & Hands-on-7	Thu, 13:30~17:30	[Monash University Malaysia (MUM) Session] – Therapeutic drug monitoring using alternative specimens: Dried blood spots (Presenter: Prof. Paul C. L. Ho) – Epidemiology and study design (Presenter: Prof. Shaun Wen Huey Lee)