

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) |