

Principles of drug action
SCPM 502, 2 credits (2-0-4)
Academic Year 2568 (2025)

Updated: 16 July 2025

Date: 29 August 2025 – 29 September 2025

Time: Mon, Wed, Fri 09.00-12.00

Room: Pr 507, Department of Pharmacology

Date	Topics	Instructors
29 August Friday (9.00-11.00)	Course orientation (8.45-9.00) L1: Introduction to pharmacodynamics & pharmacokinetics L2: Molecular targets of drug action	PT SR SR
1 September Monday (9.00-12.00)	L3: Pharmacokinetics I L4: Pharmacokinetics II L5: Pharmacokinetics: III	NM
3 September Wednesday (9.00-12.00)	L6: Ligand-receptor interaction L7: Dose-effect and concentration-effect analysis Conference 1: pharmacodynamics calculations (1 h)	PT
5 September Friday (9.00-12.00)	L8: Effect of liver and kidney diseases on pharmacokinetics L9: Drug dosing regimen Conference 2: pharmacokinetics (1 h)	SY
8 September Monday (9.00-12.00)	Examination 1 (L1-9, C1)	
10 September Wednesday (9.00-12.00)	L10-11: Biotransformation and factors affecting drug biotransformation I and II L12: Drug transporters	PK
12 September Friday (9.00-12.00)	L13: Pharmacogenomics I L14: Pharmacogenomics II	PK
15 September Monday (9.00-12.00)	L15: Drug discovery and development (1 h) L16: Individual variation & drug interactions (2h)	NM PK
17 September Wednesday (9.00-12.00)	Formative evaluation (9.00-10.00) L17: Drugs used in pediatric and geriatric patients L18: Drugs used in pregnancy	PK/NM SR
19 September Friday (9.00-12.00)	Examination 2 (L10-16, C2)	
22 September Monday (9.00-12.00)	L19: Adverse drug reactions (ADR) Conference 3: ADR (2 h)	PM
24 September Wednesday	ดูงาน บริษัท ไบยา	
26 September Friday (9.00-12.00)	L20: Drug addiction and abuse Conference 4: drug addiction treatment (2 h)	NJ
29 September Monday (9.00-12.00)	Examination 3 (L17-20, C3-4)	

Summary

Lectures (L1-20)	21 hours
Conference 1-4	6 hours
Formative evaluation	3 hours
Total time	30 hours

Course Coordinator

Asst. Prof. Pansakorn Tanratana, MD., Ph.D.

PT

Instructors

1. Assoc. Prof. Dr. Nopawan Phumala Morales, Ph.D.	NM
2. Assoc. Prof. Dr. Nattinee Jantaratnotai, Ph.D., MD.	NJ
3. Asst. Prof. Pimtip Sanvarinda, M.D., Ph.D.	PM
4. Asst. Prof. Dr. Pansakorn Tanratana, M.D., Ph.D.	PT
5. Asst. Prof. Dr. Porntipa Korprasertthaworn, Ph.D.	PK
6. Dr. Somchai Yanarojana, Ph.D., M.D.	SY
7. Dr. Somruedee Reabroi, Ph.D.	SR