

Principles of drug action
SCPM 502, 2 credits (2-0-4)
Academic Year 2569 (2026)

Date: 26 August 2026 – 28 September 2026

Time: Mon, Wed, Fri 09.00-12.00

Room: Pr 507, Department of Pharmacology

Date	Topics	Instructors
26 August Wednesday (9.00-11.00)	Course orientation (8.45-9.00) L1: Introduction to pharmacodynamics & pharmacokinetics L2: Molecular targets of drug action	PT PK SR
28 August Friday (9.00-12.00)	L3: Ligand-receptor interaction L4: Dose-effect and concentration-effect analysis Conference 1: pharmacodynamics calculations (1 h)	PT
31 August Monday (9.00-12.00)	L5: Pharmacokinetics I L6: Pharmacokinetics II L7: Pharmacokinetics: III	NM
2 September Wednes (9.00-12.00)	L8: Effect of liver and kidney diseases on pharmacokinetics L9: Drug dosing regimen Conference 2: pharmacokinetics (1 h)	SY
7 September Monday (9.00-12.00)	Examination 1 (L1-9, C1)	
9 September Wednesday (9.00-12.00)	L10-11: Biotransformation and factors affecting drug biotransformation I and II L12: Drug transporters	PK
11 September Friday (9.00-11.00)	L13: Pharmacogenomics I L14: Pharmacogenomics II	PK
14 September Monday (9.00-12.00)	L15: Drug discovery and development (1 h) L16: Individual variation & drug interactions (2h)	SC PK
16 September Wednesday (9.00-12.00)	Formative evaluation	
18 September Friday (9.00-12.00)	Examination 2 (L10-16, C2)	
21 September Monday (9.00-12.00)	L17: Drug addiction and abuse Conference 3: drug addiction treatment (2 h)	NJ
23 September Wednesday (9.00-11.00)	L18: Drug uses in pediatric and geriatric patients L19: Drug uses in pregnancy and lactation	SR

Date	Topics	Instructors
25 September Friday (9.00-12.00)	L20: Adverse drug reactions (ADR) Conference 4: ADR (2 h)	PM
28 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

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| 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. Asst. Prof. Dr. Sitthivut Charoensutthivarakul | SC |
| 7. Dr. Somchai Yanarojana, Ph.D., M.D. | SY |
| 8. Dr. Somrudee Reabroi, Ph.D. | SR |