

**Principles of drug action**  
**SCPM 502, 2 credits (2-0-4)**  
**Academic Year 2566 (2023)**

**Date:** 30 August 2023 – 2 October 2023

**Time:** Mon, Wed, Fri 09.00-12.00

**Room:** Pr 501, Department of Pharmacology

Date	Topics	Instructors
30 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  DP
1 September Friday (9.00-12.00)	L3: Ligand-receptor interaction L4: Dose-effect and concentration-effect analysis <a href="#">Conference 1: pharmacodynamics calculations (1 h)</a>	PT
4 September Monday (9.00-12.00)	L5: Pharmacokinetics I L6: Pharmacokinetics II L7: Pharmacokinetics: III	SM
6 September Wednesday (9.00-12.00)	L8: Effect of liver and kidney diseases on pharmacokinetics L9: Drug dosing regimen <a href="#">Conference 2: pharmacokinetics (1 h)</a>	SY
11 September Monday (9.00-12.00)	<b>Examination 1 (L1-9, C1)</b>	
13 September Wednesday (9.00-12.00)	L10-11: Biotransformation and factors affecting drug biotransformation I and II L12: Drug transporters	PK
15 September Friday (9.00-12.00)	L13: Pharmacogenomics I L14: Pharmacogenomics II	PK
18 September Monday (9.00-12.00)	L15: Drug discovery and development (1 h) L16: Individual variation & drug interactions (2h)	NM PK
20 September Wednesday (9.00-12.00)	<b>Formative evaluation</b>	
22 September Friday (9.00-12.00)	<b>Examination 2 (L10-16, C2)</b>	
25 September Monday (9.00-11.00)	L17: Drug uses in pediatric and geriatric patients L18: Drug uses in pregnancy and lactation	SR

Date	Topics	Instructors
27 September Wednesday (9.00-12.00)	L19: Drug addiction and abuse Conference 3: drug addiction treatment (2 h)	NJ
29 September Friday (9.00-12.00)	L20: Adverse drug reactions (ADR) Conference 4: ADR (2 h)	PM
2 October Monday (9.00-12.00)	<b>Examination 3 (L17-20, C3-4)</b>	

### 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. Darawan Pinthong, Ph.D.	DP
2. Assoc. Prof. Dr. Nopawan Phumala Morales, Ph.D.	NM
3. Assoc. Prof. Dr. Nattinee Jantaratnotai, Ph.D., MD.	NJ
4. Assoc. Prof. Dr. Supachoke Mangmool, Ph.D.	SM
5. Asst. Prof. Pimtip Sanvarinda, M.D., Ph.D.	PM
6. Asst. Prof. Dr. Pansakorn Tanratana, M.D., Ph.D.	PT
7. Asst. Prof. Dr. Porntipa Korprasertthaworn, Ph.D.	PK
8. Dr. Somchai Yanarojana, Ph.D., M.D.	SY
9. Dr. Somruedee Reabroi, Ph.D.	SR