

Principles of drug action
SCPM 502, 2 credits (2-0-4)
 Academic Year 2564 (2021)

Date: 20 October 2021 – 22 November 2021

Time: Mon, Wed, Fri 09.00-12.00

Room: Pr 501, Department of Pharmacology

Date	Topics	Instructors
20 October 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
22 October Friday (9.00-12.00)	L3: Ligand-receptor interaction L4: Dose-effect and concentration-effect analysis Conference 1: pharmacodynamics calculations (1 h)	PT
25 October Monday (9.00-12.00)	L5: Pharmacokinetics I L6: Pharmacokinetics II L7: Pharmacokinetics: III	SM
27 October Wednesday (9.00-12.00)	L8: Effect of liver and kidney diseases on pharmacokinetics L9: Drug dosing regimen Conference 2: pharmacokinetics (1 h)	SY
1 November Monday (9.00-12.00)	Examination 1 (L1-9, C1)	
3 November Wednesday (9.00-12.00)	L10-11: Biotransformation and factors affecting drug biotransformation I and II L12: Drug transporters	PK
5 November Friday (9.00-12.00)	L13: Pharmacogenomics I L14: Pharmacogenomics II	PK
8 November Monday (9.00-12.00)	L15: Drug discovery and development (1 h) L16: Individual variation & drug interactions (2h)	NM PK
10 November Wednesday (9.00-12.00)	Formative evaluation	
12 November Friday (9.00-12.00)	Examination 2 (L10-17, C2)	
15 November Monday (9.00-11.00)	L17: Drug uses in pediatric and geriatric patients L18: Drug uses in pregnancy and lactation	DP

17 November Wednesday (9.00-12.00)	L19: Drug addiction and abuse Conference 3: drug addiction treatment (2 h)	NJ
19 November Friday (9.00-12.00)	L20: Adverse drug reactions (ADR) Conference 4: ADR (2 h)	PM
22 November Monday (9.00-12.00)	Examination 3 (L18-21, C3-4)	

Summary

Lectures (L1-20) 21 hours

Conference 1-4 6 hours

Formative evaluation 3 hours

Total time 30 hours

Course Coordinator

Dr. Pansakorn Tanratana, MD., Ph.D.

PT