

Principles of drug action
SCPM 502, 2 credits (2-0-4)
Academic Year 2563 (2020)

Date: 2 September 2020 – 7 October 2020

Time: Mon, Wed, Fri 09.00-12.00

Room: Pr 501, Department of Pharmacology

Date	Topics	Instructors
2 September Wednesday (9.00-11.00)	Course orientation (8.45-9.00) L1: Introduction to pharmacodynamics & pharmacokinetics L2: Molecular targets of drug action	PT PT DP
9 September Wednesday (9.00-12.00)	L3: Ligand-receptor interaction L4: Dose-effect and concentration-effect analysis Conference 1: pharmacodynamics calculations (1 h)	PT
11 September Friday (9.00-12.00)	L5: Pharmacokinetics I L6: Pharmacokinetics II L7: Pharmacokinetics: III	SM
14 September Monday (9.00-12.00)	L8: Effect of liver and kidney diseases on pharmacokinetics L9: Drug dosing regimen Conference 2: pharmacokinetics (1 h)	SY
TBA	Examination 1 (L1-9, C1)	
18 September Friday (9.00-12.00)	L10-11: Biotransformation and factors affecting drug biotransformation I and II L12: Drug transporters	PK
21 September Monday (9.00-12.00)	L13: Pharmacogenomics I L14: Pharmacogenomics II	PK
25 September Friday (9.00-12.00)	L15: Drug discovery and development (1 h) L16: Physiologically-based pharmacokinetics L17: Individual variation & drug interactions	NM PK PK
28 September Monday (9.00-12.00)	Formative evaluation	
TBA	Examination 2 (L10-17, C2)	
2 October Friday (9.00-11.00)	L18: Drug uses in pediatric and geriatric patients L19: Drug uses in pregnancy and lactation	DP
5 October Monday (9.00-12.00)	L20: Drug addiction and abuse Conference 3: drug addiction treatment (2 h)	NJ
7 October Wednesday (9.00-12.00)	L21: Adverse drug reactions (ADR) Conference 4: ADR (2 h)	PM
TBA	Examination 3 (L18-21, C3-4)	

Summary

Lectures (L1-21) 21 hours

[Conference 1-4](#) 6 hours

Formative evaluation 3 hours

Total time 30 hours