

Class Schedule SCPA 442 Novel Research on Therapeutic Strategies and Diagnosis 2 (0-4-2)
1st Semester of Academic Year 2026

Date: 3 August – 23 September 2026 Monday and Wednesday

Time: 09.00-12.00, 13.00-14.30 (Lab.)

Course coordinator: Asst. Prof. Witchuda Payuhakrit, Ph.D. Tel: 02-201-5550

E-mail: witchuda.pay@mahidol.ac.th Room: PR118

Students: n = 15

Date	Time	Topic	Lec. (hr)	Lab. (hr)	Lecturer
Mon 3 Aug	9.00-9.30	Course introduction		0.5	WP
	9.30-12.00, 13.00-15.00	L1: Aging marker detection		4.5	WP
Wed 5 Aug	9.00-12.00, 13.00-14.30	L2: Structure-Based Drug Design using X-ray Crystallography		4.5	TP
Mon 10 Aug	9.00-12.00, 13.00-14.30	L3: Hematopoietic Stem Cells-based Therapy		4.5	UT
Mon 17 Aug	9.00-12.00, 13.00-14.30	L4: Coagulation and inflammation pathway Wet laboratory session: Hands-on flow cytometry; instructor-to-student ratio = 1:5		4.5	PC/BK/KP
Wed 19 Aug	9.00-12.00, 13.00-14.30	L5: Microbiome-based therapeutics <i>*Please bring your personal laptop with you.*</i>		4.5	AS
Mon 24 Aug	9.00-12.00, 13.00-14.30	L6: Model organisms for new drug discovery		4.5	ANJ
Wed 26 Aug	9.00-12.00, 13.00-14.30	L7: Strategies to combat bacterial infections		4.5	YN
Mon 31 Aug	9.00-12.00, 13.00-14.30	L8: High-content imaging for drug discovery & development		4.5	PK
Wed 2 Sep	9.00-12.00	L9: Cosmetic procedures for rejuvenation		3	SN
Mon 7 Sep	9.00-12.00, 13.00-14.30	L10: Natural products in skin research		4.5	NC
Wed 9 Sep	9.00-12.00, 13.00-14.30	L11: Animal oncology for translational medicine		4.5	TM
Mon 14 Sep	9.00-12.00, 13.00-14.30	L12: Malaria diagnosis		4.5	NK
Wed 16 Sep	9.00-12.00, 13.00-14.30	L13: Oxidative stress research		4.5	CN
Wed 23 Sep	9.00-11.30	Lab tour at Department of Medical Sciences, Ministry of Public Health		2.5	NC
Total				60 hr	

Staff

ANJ = Amornrat Jensen
 AS = Athisri Sitthipunya
 CN = Chonnapat Naktubtim
 NC = Nisamanee Charoenchon
 NK = Niwat Kangwanrangsarn
 PC = Pornthip Chaichompoo
 PK = Phongthon Kanjanasirirat

SN = Somphong Narkpinit
 TM = Tharathip Muangthong
 TP = Thanalai Poonsiri
 UT = Umnuaychoke Thongsa-ad
 WP = Witchuda Payuhakrit
 YN = Yaowarin Nakornpakdee

Invited Instructors:

BK = Benjaporn Kiatpakdee
 KP = Kunwadee Phongpao

Scientist: Supawilai Ratsawat