

SCID301 System Ecology and Disease emergence 3(3-0-6)

Mon.&Tue. 9.00-12.00 (18-Mar. to 14-May 2019) - Faculty of Science, Room K136, M305, K134
 - Faculty of Tropical Medicine (FTM)

Contact: Niwat Kangwanrangsan, Ph.D.
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wk	DATE	TIME	Room	TOPIC	INSTRUCTOR
1	Mon 18-Mar	9.00-12.00	K.136	L1 – Intro: System ecology and disease emergence	Niwat
	Tue 19-Mar	9.00-12.00	K.136	L2 – Ecology and population	Niwat
2	Mon 25-Mar	9.00-12.00	M.305	L3 – Population and diseases	Niwat
	Tue 26-Mar	9.00-12.00	K.136	L4 – Disease and transmission	Niwat
3	Mon 1-Apr	9.00-12.00	K.136	L5 – Emerging diseases	Tana
	Tue 2-Apr	9.00-12.00	K.136	L6 – Re-emerging diseases	Yaowarin
4	Tue 9-Apr	9.00-12.00	(FTM ¹)	L7 – Vector control	Patchara
				- Seeking and hiding - Mosquito collection	
5	Mon 22-Apr	9.00-12.00	(FTM ¹)	L8 – Laboratory in Vector control I	Patchara
				- Station1-Mosquito identification - Station2-Mosquito image competition - Station3-Feeling on mosquito borne project - Station4-Q/A for presentation	
	Tue 23-Apr	9.00-12.00	(FTM ²)	L9 – Laboratory in Vector control I	Nathamon / Kobporn
6	Mon 29-Apr	9.00-12.00	(FTM ¹)	L10 – Presentation I (Group 1-4)	Patchara
	Tue 30-Apr	9.00-12.00	(FTM ¹)	L11 – Presentation II (Group 1-4)	Patchara / Kobporn
7	Thu 9-May	9.00-16.00		L12-13 – Vector control research (Field-study) - I	Niwat / Yaowarin /
	Fri 10-May	9.00-16.00		L14-15 – Vector control research (Field-study) – II (Dr.Alongkot, Dept. of Entomology, AFRIMS)	
8	Tue 14-May			Submission of individual report for mini-project of disease prevention and control	

45 hr

FTM¹ – ห้องประชุมภาควิชา ภาควิชาการแพทย์ ชั้น 7 อาคารจำลอง ตรีณสุด

FTM² – ห้องปฏิบัติการ ชั้น 8 ตึกราชันครินทร์ (ตึกโรงพยาบาล)

Staffs:

- | | |
|--------------------------|----------------------------|
| 1. Niwat Kangwanrangsan | 4. Patchara Sriwichai |
| 2. Tana Taechalertpaisan | 5. Nathamon Kosoltanapiwat |
| 3. Yawarin Nakornpakdee | 6. Kobporn Bunnak |

Assignment I: Individual topic

1. Sittichoke – Infection, transmission, and control of **Psittacosis**
2. Puniga – **Sleeping sickness**: transmission and control
3. Nattawan – **Dermatophytosis** in tropical area
4. Yanika – Transmission and control of **Zika virus**
5. Torlarp – Disease ecology of **Japanese Encephalitis**
6. Nichakorn – Transmission and control of **Leptospirosis**
7. Benyapa – Transmission and control of **Q fever**, a zoonotic disease
8. Thanyalak – **Lyme disease**: Transmission and control
9. Peeraya – Transmission and control of **Dengue fever** in SEA
10. Pattaraporn – Transmission and control of **Schistosomiasis** in Africa
11. Piraya – **Ebola virus** transmission and control
12. Ethan – Disease ecology and infection of **Microfilaria**
13. Samita – Transmission and control of **Echinococcosis**
14. Chonchanut – Transmission and control of **Chikungunya**
15. Paradee – Transmission and control of **Leishmaniasis**
16. Pariyaporn – Transmission and control of **Cholera**
17. Sarinya – **Meleiodosis**: transmission and control
18. Azizi – Transmission and control of **Black plague**
19. Monsicha – Transmission and control of **Hanta virus**
20. Krishna – **H1N1 influenza**: transmission and control
21. Plydaow – **Rabies**: transmission and control
22. Pimchanok – **Yellow fever**: transmission and control
23. Patompong –

* Disease ecology, human population, transmission, control

Outline for assignment I

Due: 9th May 2019

- Introduction (one A4-page)
- Pathogen and Infection
- Pathology, Diagnosis, and Treatment
- Disease ecology
- Transmission
- Prevention and Control
- References

Assignment II: Concept note

An experimental design for the scientific research related to the field study.

One A4 page, the format for concept note will be supplied.

Due: 20th May 2019