

Teaching Schedule (Academic year 2/2024)
SCID 514 Animal Experimentation in Biomedical Research 1(0-2)

Course Coordinators:

Assoc. Prof. Dr. Ruedee Hemstapat, B.Sc. (Pharm), Ph.D.

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Date: Jan 15 – Apr 9, 2025

Place: Room B401

Laboratory: Central Animal Facility (CAF)

Part 1				
1	Jan. 15, 2025	13:00-13:10	Orientation: <i>Why are animals used in biomedical science research?</i>	Dr. Ruedee Hemstapat
		13:10-14:30	Lecture 1: Overview: Responsibility and Role in Biomedical Research <ul style="list-style-type: none"> • Principal investigator and research scientist • Veterinary Role in Biomedical Research 	Dr. Erin Ball
		14:30-16:00	Class discussion 1 with demonstration: <ul style="list-style-type: none"> • Laboratory and Comparative Pathology Techniques in Biomedical Research. 	Dr. Erin Ball
2	Jan. 22, 2025	13:00-14:30	Lecture 2: Animal models in biomedical science: general consideration	Dr. Richard Kelly III
		14:30-16:00	Class discussion 2 with demonstration: Humane endpoints: What and why?	Dr. Richard Kelly III
3	Jan. 29, 2025	13:00-16:00	Lecture 3: Standard animal care	Dr. Richard Kelly III
4	Feb. 5, 2025	13:00-16:00	Class discussion 3 with demonstration: Basic techniques for animal Experimentation- Orientation for the laboratory session	Dr. Ruedee Hemstapat
	Feb. 12, 2025		Holiday (Makha Bucha Day)	
5	Feb. 19, 2025	13:00-14:00	Class discussion 4 with demonstration: Observation of experimental animals: Pain and distress	Dr. Ruedee Hemstapat
		14:00-16:00	Class discussion 5 with demonstration: <ul style="list-style-type: none"> • Ethics on animal experimentation • How to write an animal use protocol? 	Dr. Tepmanas Bupha-Intr
6	Feb. 26, 2025	13:00-14:00	Class discussion 6 with demonstration: Basic techniques for animal dissection	Dr. Sutharinee Likitnukul
		14:00-15:00	Class discussion 7 with demonstration: <ul style="list-style-type: none"> • Occupational health and safety in the care and use of research animals. Drugs and agents used in animal experimentation: Analgesics, anesthetics, euthanizing agents, antiseptics and disinfectants	Dr. Nattapon Panupinthu
		15:00-16:00	Class discussion 8 with demonstration: Toxicology testing in animals	Dr. Sareeya Reungpatthanaphong
7	Mar. 5, 2025	13:00-16:00	Class discussion 9 with demonstration: Visiting Central Animal Facility, Faculty of Science, Mahidol University (MUSC-CAF)	Dr. Visut Rawiwet and Dr. Napawan Hirunwiroj
8	Mar. 12, 2025	13:00-16:00	Written Examination	Assoc. Prof. Dr. Ruedee Hemstapat
Part 2				
9	Mar. 19, 2025	13:00-16:00	Lab 1: Basic handling and drug administration techniques: Rat I and hand on exam (Partly) (at CAF)	Dr. Ruedee Hemstapat and 4 staff from CAF
10	Mar. 26, 2025	13:00-16:00	Lab 2: Basic handling and drug administration techniques: Rat II and hand on exam (Partly) (at CAF)	Dr. Ruedee Hemstapat and 4 staff from CAF
11	April 2, 2025	13:00-16:00	Lab 3: Basic handling and drug administration techniques: Mouse and hand on exam (Partly) (at CAF)	Dr. Ruedee Hemstapat and 4 staff from CAF
11	April 9, 2025	13:00-16:00	Lab 4: Written-Short answer exam (at CAF) Feedback and Course summary	Dr. Ruedee Hemstapat and 4 staff from CAF