

**Teaching Schedule (Academic year 2/2023)**  
**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 10 – Mar 27, 2024

Place: Room B401

Laboratory: Central Animal Facility (CAF)

Part 1				
1	Jan. 10, 2024	13:00-13:10	Orientation: <i>Why are animals used in biomedical science research?</i>	Dr. Ruedee Hemstapat
		13:10-14:30	<b>Lecture 1: Overview: Responsibility and Role in Biomedical Research</b> <ul style="list-style-type: none"> <li>• Principal investigator and research scientist</li> <li>• Veterinary Role in Biomedical Research</li> </ul>	Dr. Erin Ball
		14:30-16:00	<b>Class discussion 1 with demonstration:</b> <ul style="list-style-type: none"> <li>• Laboratory and Comparative Pathology Techniques in Biomedical Research.</li> </ul>	Dr. Erin Ball
2	Jan. 17, 2024	13:00-14:30	<b>Lecture 2:</b> Animal models in biomedical science: general consideration	Dr. Richard Kelly III
		14:30-16:00	<b>Class discussion 2 with demonstration:</b> Humane endpoints: What and why?	Dr. Richard Kelly III
3	Jan. 24, 2024	13:00-16:00	<b>Lecture 3:</b> Standard animal care	Dr. Richard Kelly III
4	Jan. 31, 2024	13:00-16:00	<b>Class discussion 3 with demonstration:</b> Basic techniques for animal Experimentation- Orientation for the laboratory session	Dr. Ruedee Hemstapat
5	Feb. 7, 2024	13:00-14:00	<b>Class discussion 4 with demonstration:</b> Observation of experimental animals: Pain and distress	Dr. Ruedee Hemstapat
		14:00-16:00	<b>Class discussion 5 with demonstration:</b> <ul style="list-style-type: none"> <li>• Ethics on animal experimentation</li> <li>• How to write an animal use protocol?</li> </ul>	Dr. Tepmanas Bupha-Intr
6	Feb. 14, 2024	13:00-14:30	<b>Class discussion 6 with demonstration:</b> Basic techniques for animal dissection	Dr. Sutharinee Likitnukul
		14:30-16:00	<b>Class discussion 7 with demonstration:</b> <ul style="list-style-type: none"> <li>• Occupational health and safety in the care and use of research animals.</li> <li>• Drugs and agents used in animal experimentation: Analgesics, anesthetics, euthanizing agents, antiseptics and disinfectants</li> </ul>	Dr. Nattapon Panupinthu
7	Feb. 21, 2024	13:00-16:00	<b>Class discussion 8 with demonstration:</b> Visiting Central Animal Facility, Faculty of Science, Mahidol University (MUSC-CAF)	Dr. Visut Rawiwet and Dr. Napawan Hirunwiroj
8	Feb. 28, 2024	13:00-16:00	<b>Written Examination</b>	Assoc. Prof. Dr. Ruedee Hemstapat
Part 2				
9	Mar. 6, 2024	13:00-16:00	<b>Lab 1:</b> Basic handling and drug administration techniques: Rat I and <b>hand on exam (Partly)</b> (at CAF)	Dr. Ruedee Hemstapat and staff (Visut, Sutharinee, Napawan, Scarlett, Ticomporn)
10	Mar. 13, 2024	13:00-16:00	<b>Lab 2:</b> Basic handling and drug administration techniques: Rat I and <b>hand on exam (Partly)</b> (at CAF)	Dr. Ruedee Hemstapat and staff (Visut, Sutharinee, Napawan, Scarlett, Ticomporn)
11	Mar 20, 2024	13:00-16:00	<b>Lab 3:</b> Basic handling and drug administration techniques: Mouse and <b>hand on exam (Partly)</b> (at CAF)	Dr. Ruedee Hemstapat, and staff (Visut, Sutharinee, Napawan, Scarlett, Ticomporn)
12	Mar 27, 2024	13:00-16:00	<b>Lab 4:</b> Written-Short answer exam (at CAF) <b>Feedback and Course summary</b>	Dr. Ruedee Hemstapat, and staff (Visut, Napawan, Scarlett, Ticomporn)