## Teaching Schedule Academic year 2017 SCID 514 Animal Experimentation in Biomedical Research 1(0-2)

Course Coordinators: Assist. Prof. Dr. Warinkarn Hemstapat, B.Sc. (Pharm), Ph.D.

Room Pr 520, Tel 02-201-5647 E-mail: <u>warinkarn.hem@mahidol.ac.th</u>

Date : Jan 17 – Mar 28, 2018 Place : Room B401

Laboratory : Central Animal Facility (CAF)

			Part 1	
1	Jan. 17, 2018 _	13:00-13:15	Orientation: Why are animals used in biomedical science research?	Assist. Prof. Dr. Warinkarn Hemstapat
		13:15-16:00	Lecture 1: Standard animal care	Dr. Christine Ege
	Jan. 24, 2018	13:00-14:00	<b>Lecture 2</b> : Responsibility of principal investigator and research scientist	Dr. Christine Ege
2		14:00-15:00	Lecture 3: Animal models in biomedical science: general consideration	Dr. Christine Ege
		15:00-16:00	Class discussion 1 with demonstration: Humane endpoints: What and why?	Dr. Christine Ege
	Jan. 31, 2018	13:00-14:00	Class discussion 2 with demonstration: How to work with animals in the laboratory?	Assist. Prof. Dr. Warinkarn Hemstapat
3		14:00-15:00	Class discussion 3 with demonstration: Observation of experimental animals: Pain and distress	Assist. Prof. Dr. Warinkarn Hemstapat
		15:00-16:00	<b>Class discussion 4 with demonstration</b> : Drugs and agents used in animal experimentation: Analgesics, anesthetics, euthanizing agents, antiseptics and disinfectants	Assist. Prof. Dr. Warinkarn Hemstapat
4	Feb. 7, 2018	13:00-15:00	<b>Class discussion 5 with demonstration:</b> Ethics on animal experimentation and how to write an animal use protocol?	Assoc. Prof. Dr. Tepmanas Bupha-Intr
		15:00-16:00	Class discussion 6 with demonstration: Visiting the Laboratory Animal Facility, Faculty of Science, Mahidol University	Assist. Prof. Dr. Warinkarn Hemstapat and Dr. Visut Rawiwet
5	Feb. 14, 2018	13:00-16:00	<b>Class discussion 6 with demonstration:</b> Basic techniques for animal Experimentation: Orientation for the laboratory session	Assist. Prof. Dr. Warinkarn Hemstapat
6	Feb. 21, 2018		Self-study	
7	Feb. 28, 2018	13:00-16:00	Written Examination (Room MDL4)	Assist. Prof. Dr. Warinkarn Hemstapat
			Part 2	
8	Mar. 7, 2018	1300-1600	Lab 1: Basic handling and drug administration techniques: Rat I and hand on exam (at Central Animal Facility)	Assist. Prof. Dr. Warinkarn Hemstapat and staff
9	Mar. 14, 2018	1300-1600	Lab 2: Basic handling and drug administration techniques: Rat II and hand on exam (Cont.) (at Central Animal Facility)	Assist. Prof. Dr. Warinkarn Hemstapat and staff
10	Mar. 21, 2018	1300-1600	Lab 3: Basic handling and drug administration techniques: Mouse I and hand on exam (at Central Animal Facility)	Assist. Prof. Dr. Warinkarn Hemstapat and staff
11	Mar 28, 2018	1300-1600	Lab 4: Basic handling and drug administration techniques: Mouse II and hand on exam (Cont.) (at Central Animal Facility) Feedback and Course summary	Assist. Prof. Dr. Warinkarn Hemstapat and staff