

**SCBM376 Animal Cell Culture Technique 2(1-2-3)**  
**Academic Year 2022**  
**Semester 2**

DATE	TIME	TOPIC	Room	INSTRUCTOR
Wed 18 Jan	13:00-16:00	Lec 1 Introduction to animal cell cultivation	TBA	Radeekorn
Fri 20 Jan	13:00-16:00	Lec 2 Laboratory design, equipment, and aseptic technique	TBA	Ampa
Wed 25 Jan	13:00-16:00	Lec 3 Required factors for cell cultivation	TBA	Radeekorn
Fri 27 Jan	13:00-16:00	Lec 4 Cell culture techniques I	TBA	Ampa
Wed 1 Feb	13:00-16:00	Lec 5 Cell culture techniques II	TBA	Fabien
Fri 3 Feb	13:00-17:00	Lab 1 Lab brief: Cell culture laboratory, aseptic techniques, preparation of medium and sterility test, cell counting (practice)	TBA	All and TAs
Wed 8 Feb	13:00-17:00	Lab 2 Cell propagation and determination of cell growth (day 0); Subcultivation of monolayer cell line	TBA	All and TAs
Fri 10 Feb	13:00-17:00	Lab 3 Cell propagation and determination of cell growth (day 2); Cryopreservation of cells; Subcultivation of monolayer cell line (observe)	TBA	All and TAs
Wed 15 Feb	13:00-17:00	Lab 4 Cell propagation and determination of cell growth (day 7); Subcultivation of suspension cell line (day 0); Subcultivation of monolayer cell line (concluded); Cytotoxicity test; Transfection	TBA	All and TAs
Fri 17 Feb	13:00-17:00	Lab 5 Cell propagation and determination of cell growth (day 9); Determination of the subcultured cell growth (day 2); Plating efficiency test; Cytotoxicity test (concluded #1); Transfection (concluded)	TBA	All and TAs
Wed 22 Feb	13:00-17:00	Lab 6 Recovery of frozen cells; Effects of serum concentration on cell growth; Cell propagation and determination of cell growth (day 14); Determination of the subcultured cell growth (day 7); Cytotoxicity test (concluded #2)	TBA	All and TAs
Fri 24 Feb	13:00-17:00	Lab 7 Plating efficiency test (concluded); Recovery of frozen cells (concluded); Effects of serum concentration on cell growth (concluded); Cell propagation and determination of cell growth (concluded)	TBA	All and TAs
Wed 1 Mar	13:00-15:00	Discussion	TBA	All and TAs
Fri 10 Mar	13:00-16:00	Examination	TBA	

Lecture = 15 hr, Lab = 30 hr

**Instructors**

1. Radeekorn Akkarawongsapat\*
2. Ampa Suksatu
3. Saowakon Paca-uccaralertkun
4. Fabien Loison
5. Jitra Limthongkul
6. Chanita Napaswad

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**Program**

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