

SCBM376 Animal Cell Culture Technique 2(1-2-3)
Academic Year 2023
Semester 2 (Jan – May, 2024)

DATE	TIME	TOPIC	Room	INSTRUCTOR
Wed 10 Jan	13:00-16:00	Lec 1 Introduction to animal cell cultivation	L	Radeekorn
Fri 12 Jan	13:00-16:00	Lec 2 Laboratory design, equipment, and aseptic technique	L	Ampa
Wed 17 Jan	13:00-16:00	Lec 3 Required factors for cell cultivation	L	Radeekorn
Fri 19 Jan	13:00-16:00	Lec 4 Cell culture techniques I	L	Ampa
Wed 24 Jan	13:00-16:00	Lec 5 Cell culture techniques II	L	Fabien
Fri 2 Feb	13:00-17:00	Lab 1 Lab brief: Cell culture laboratory, aseptic techniques, preparation of medium and sterility test, cell counting (practice)	P401 In group	All instructors and TAs
Wed 7 Feb	13:00-17:00	Lab 2 Cell propagation and determination of cell growth (day 0); Subcultivation of monolayer cell line	In group	All and TAs
Fri 9 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)	In group	Fabien, All and TAs
Wed 14 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	In group	All and TAs
Fri 16 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)	In group	All and TAs
Wed 21 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)	In group	All and TAs
Fri 23 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)	In group	All and TAs
Wed 28 Feb	13:00-15:00	Discussion	TBA	All
Wed 6 Mar	13:00-16:00	Examination	TBA	TA

Lecture = 15 hr, Lab = 30 hr

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