



3000751 Research Skills in Biomedical Sciences and Biotechnology

**Time and venue : Thursday 10.00 – 12.00 Room 218, 2nd Floor, Pattayapat building,
Faculty of Medicine or other arrangement by instructors**

Week	Date	Topics	Instructor
1	19 Aug, 2021	Orientation & central dogma	Prof. Apiwat Mutirangura, M.D., Ph.D.
2	26 Aug, 2021	DNA extraction & amplifications	Assoc.Prof. Sunchai Payungporn, Ph.D.
3	2 Sep, 2021	DNA sequencing & high-throughput sequencing	Assoc.Prof. Sunchai Payungporn, Ph.D.
4	9 Sep, 2021	Metagenomics & microbiomes	Assoc.Prof. Sunchai Payungporn, Ph.D.
5	16 Sep, 2021	Epigenetics / Methylome&ChIP-Seq	Lect. Narisorn Kongruttanachok, Ph.D.
6	23 Sep, 2021	Microarray & Nanostring	Lect. Kanok Preativatanyou, M.D, Ph.D.
7	30 Sep, 2021	RNA-Seq	Lect. Kanok Preativatanyou, M.D, Ph.D.
8	7 Oct, 2021	RNA interference & quantitative real-time PCR	Assoc.Prof. Sunchai Payungporn, Ph.D.
9	14 Oct, 2021	Protein extraction & purification	Assoc. Prof. Alain Jacquet, Ph.D.
10	21 Oct, 2021	Proteomics & Mass spectrometry	Lect. Piriya Wongkongkathep, Ph.D.
11	28 Oct, 2021	Confocal / Super Resolution Microscope	Lect. Naphat Chantaravisoot, Ph.D.
12	4 Nov, 2021	Electron microscope: <u>the lecture will be at the EM Lab, Room 110 Aor Por Ror Building.</u>	Asst. Prof. Supang Meneesri le Grand, Ph.D.
13	11 Nov, 2021	genetic manipulation of cells and animals	Lect. Chureerat Phokaew, Ph.D.
14	28 Nov, 2021	Cell lines culture	Assoc. Prof. Alain Jacquet, Ph.D.
15	25 Nov, 2021	Flow cytometry	Lect.r Direkrit Chiewchengchol, M.D., Ph.D.
16	2 Dec, 2021	Common tools in computational Biology	Lect. Sira Sriswasdi, Ph.D.