

MBSB 501 System Biosciences**Academic Year 2019****Room: A407, Institute of Molecular Biosciences**

| Date | Time | Lecture No. | Topic | Instructor |
|-------------|--------------|-------------|--|----------------|
| Wed, 14 Aug | 9:00 - 12:00 | 1 | Introduction to molecular, cellular and systems biosciences | Dr.Narisorn |
| Fri, 16 Aug | 9:00 - 12:00 | 2 | DNA, genome, genomics | Dr.Pimphen |
| Mon, 19 Aug | | | Self-study | |
| Wed, 21 Aug | 9:00 - 12:00 | 4 | RNA and regulations | Dr.Sarin |
| Fri, 23 Aug | 9:00 - 12:00 | 3 | Genomic data management and analysis | Dr.Sissades |
| Mon, 26 Aug | 9:00 - 12:00 | 5 | Research highlight in systems biosciences I (Student Presentation) | All |
| Wed, 28 Aug | 9:00 - 12:00 | | Self-study | |
| Fri, 30 Aug | 9:00 - 12:00 | | Assignment/Exam (Lecture 1-4) | |
| Mon, 2 Sep | 9:00 - 12:00 | 6 | Transcriptomics | Dr.Natee |
| Wed, 4 Sep | 9:00 - 12:00 | 7 | Transcriptomic data management and analysis | Dr.Nuankanya |
| Fri, 6 Sep | 9:00 - 12:00 | | Self-study | |
| Mon, 9 Sep | 9:00 - 12:00 | 8 | Epigenetic, Epigenomics | Dr.Alisa |
| Wed, 11 Sep | 9:00 - 12:00 | 9 | Protein | Dr.Chutima |
| Fri, 13 Sep | 9:00 - 12:00 | 10 | Proteomics | Dr.Duangnapa |
| Mon, 16 Sep | 9:00 - 12:00 | 11 | Metabolomics | Dr.Phatchariya |
| Wed, 18 Sep | | | Self-study | |
| Fri, 20 Sep | 9:00 - 12:00 | 12 | Research highlight in systems biosciences II (Student Presentation) | All |
| Mon, 23 Sep | 9:00 - 12:00 | | Assignment/Exam (Lecture 6-11) | |
| Wed, 25 Sep | 9:00 - 12:00 | 13 | Signaling networks | Dr.Promsin |
| Fri, 27 Sep | 9:00 - 12:00 | 14 | Omics-based biomarkers | Dr.Nitwara |
| Mon, 30 Sep | 9:00-12:00 | | Self-study | |
| Wed, 2 Oct | 9:00 - 12:00 | 15 | Omics in translational medicine | Dr.Kittiphong |
| Fri, 4 Oct | 9:00 - 12:00 | | Self-study | |
| Mon, 7 Oct | 9:00 - 12:00 | 16 | Research highlight in systems biosciences III (Student Presentation) | All |
| Wed, 9 Oct | 9:00 - 12:00 | | Assignment/Exam (Lecture 13-15) | |

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| Assessment Criteria | Written examination/assignment | 60% |
| | Attendant/participation | 10% |
| | Presentation/question and answer | 30% |