

TIGP Bio 2023 Spring Syllabus Seminar

For the latest syllabus, please visit the BP website: <https://idv.sinica.edu.tw/tigpbio/>

Announcement: <https://www.stat.sinica.edu.tw/cht/index.php?>





Place: Auditorium, B1F, Institute of Statistical Science, Academia Sinica.







Time: Thursday 14:00-15:20

Chair: Academia Sinica: Dr. Chung-Yen Lin (Informatics), Dr. Chien-Ling Lin (Biology), Dr. Wei-Chung Liu (Statistics)

Remark: Attend any 2 non-BP Seminars—either on campus or off campus is fine, and submit a seminar report: [TIGP-BP Seminar Student Report \(click to download\)](#) (Format: 1 page A4, 12pts font, single spaced) for each seminar to the advisor/lab professor. After collecting the grading and signature from the professor, send the report to the TIGP-BIO office (tigpbio@gate.sinica.edu.tw) by **June 9th**, 2023.

Grades: Attendance 100% (2 non-BP seminar reports included)

Week	Date	Topics/Brief Description	Speaker's Affiliation	Speaker	Website	Student Host
1	2023/2/16 @Webex Only	The Application of Mathematical Modeling and Pathogen Genomics to Infectious Diseases	Institute of Bioinformatics and Structural Biology, National Tsing Hua University	Prof. Hsiao-Han Chang		Yu-Chun Huang
2	2023/2/23	Please refer to the remark (no class)	--	--	--	--
3	2023/3/2	Context-Dependent Gene Regulatory Network Reveals Regulation Dynamics and Cell Trajectories Using Unspliced Transcripts	Taiwan AI Labs	Dr. Yueh-Hua Tu		Rodrigo Espinoza Silva
4	2023/3/9	Extracting Potential Antimicrobial Resistance Biomarker Genes Using Bacterial Pan-Genome-Based Feature Selection Methods	Graduate Institute of Biomedical Informatics, Taipei Medical University	Prof. Yu-Wei Wu		Shang-Kok Ng
5	2023/3/16	Please refer to the remark (no class)	--	--	--	--
6	2023/3/23	Social Network Neuroscience	Institute of Sociology, Academia Sinica	Dr. Yen-Sheng Chiang		Jia-Ying Su
7	2023/3/30	Review Week (no class)	--	--	--	--
8	2023/4/6	Midterm Week (no class)	--	--	--	--

9	2023/4/13	The Domestication and Expansion History of Mungbean and Adzuki Bean: Evidence From Population Genomics	Institute of Ecology and Evolutionary Biology, National Taiwan University	Prof. Cheng-Ruei Lee		David Nicola Streuli
10	2023/4/20	Sweet Poison: How Sugar Initiates Tumorigenesis in Pancreatic Cells	The Genomics Research Center, Academia Sinica	Dr. Chun-Mei Hu		Daniel Garcia-Ruiz
11	2023/4/27	In the “Loop”: Examining the Role of Circular RNAs in Human Diseases	Department of Life Science, National Taiwan University	Prof. Te-Lun Mai		Po-Yuan Chen
12	2023/5/4 Webex Only	Novel Schizophrenia Drug Discovery to Development – an AI-aided Story	Department of Computer Science and Information Engineering, National Taiwan University	Prof. Yu-Feng Jane Tseng		Yu-Chun Huang
13	2023/5/11	mRNA Signatures in Gene Expression Control: Lessons Learned from Biased Codon Usage and SARS-CoV-2 Nsp1-Mediated Translational Repression	Department of Biochemistry and Molecular Biology, National Cheng Kung University	Prof. Chien-Hung Yu		Tzu-Hsiang Lin
14	2023/5/18	Utilize Comparative Genomics to Unravel the Evolution of Bioluminescence in Fungi	Department of Microbiology, Soochow University	Prof. Huei-Mien Ke		Ping-Yun Ou
15	2023/5/25	Review Week (no class)	--	--	--	--
16	2023/6/1	Final Exam Week (no class)	--	--	--	--