

TIGP Bio 2022 Fall Syllabus Seminar

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

Announcement: <https://www.iis.sinica.edu.tw/en/page/Events/seminar.html>







Place: Room 101, New Building of the Institute of Information 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)

Note: 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 (tigbbio@gate.sinica.edu.tw) by **December 30th, 2022**.

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

Week	Date	Topics/Brief Description	Speaker's Affiliation	Speaker	Website	Student Host
1	2022/9/8	Modelling Food Webs and Their Statistical Inference	Institute of Statistical Science, Academia Sinica	Dr. Wei-Chung Liu		Jia-Ying Su
2	2022/9/15 Webex only	A Computational Approach for Predicting IL-10- Inducing Immunosuppressive Peptides Using Combinations of Amino Acid Global Features	Department of Epidemiology, Helmholtz Centre for Infection Research, Germany	Dr. Onkar Singh		David Nicola Streuli
3	2022/9/22 Webex only	Loss and Preservation of Duplicated Genes: Phenotypic Consequences and Molecular Mechanisms	Institute of Population Health Sciences, National Health Research Institutes	Dr. Ben-Yang Liao		Tzu-Hsiang Lin
4	2022/9/29 Webex only	Novel Schizophrenia Drug Discovery to Neurodegenerative Disease Treatment - an AI Aided Drug Discovery and Development Case	Graduate Institute of Biomedical Engineering and Bioinformatics, National Taiwan University	Prof. Yu-Feng Jane Tseng		Shang-Kok Ng
5	2022/10/6	Choices Behind the Veil of Ignorance in Formosan Macques	Department of Economics, National Taiwan University	Prof. Chen-Ying Huang		Rodrigo Espinoza Silva
6	2022/10/13	The Microfluidic System Integrating Surface-Enhanced Raman Spectroscopy for Antimicrobial Susceptibility Testing	Department of Electrical Engineering, National Taiwan University	Prof. Nien-Tsu Huang		Jia-Ying Su
7	2022/10/20	Review Week (no class)	--	--	--	--

8	2022/10/27	Midterm Week (no class)	--	--	--	--
9	2022/11/3	An Evaluation of Noise Reduction Methods for Single-Cell RNA Sequencing Data	Institute of Statistical Science, Academia Sinica	Dr. Shih-Kai Chu		Yu-Chun Huang
10	2022/11/10	A Virtual Reality System to Study Social Interaction in Adult Zebrafish	Institute of Molecular Biology, Academia Sinica	Dr. Kuo-Hua Huang		Po-Yuan Chen
11	2022/11/17	Exploring the Origin and Function of Spermatogenesis Specific Small RNAs in C. Elegans	Institute of Molecular Medicine, National Taiwan University	Prof. Hsin-Yue Tsai		Ping-Yun Ou
12	2022/11/24 Webex only	Computational Approaches in Drug Discovery	College of Engineering, University of Georgia, United States	Prof. Zhong-Ru Xie		Daniel Garcia-Ruiz
14	2022/12/8	TIGP-BP Activity (for BP students)	--	--	--	--
14	2022/12/9 (Fri) 14:00-15:20	Feature Selection Transfers Predictors of Drug Response from Cell Lines to Patients	Institute of Statistical Science, Academia Sinica	Dr. Grace S. Shieh		Tzu-Hsiang Lin
15	2022/12/15	Review Week (no class)	--	--	--	--
16	2022/12/22	Final Exam Week (no class)	--	--	--	--