

TIGP Bio 2021 Spring Syllabus Seminar

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)

Remarks: Attend any 2 none-BP Seminars (either on campus or off campus is fine) and submit a report for each seminar to advisor/lab professor (Format: 1 page A4, 12pts font, single space) and send the report to BP office after grading is completed by the professor by the end of the semester. Please download the report form from BP web-page

Grades: attendance 100%

For the most up-to-date syllabus, please visit [https://tigbbp.iis.sinica.edu.tw/tigbbio/syllabus/2021_Spring/2021_Spring_Syllabus_\(Seminar\).pdf](https://tigbbp.iis.sinica.edu.tw/tigbbio/syllabus/2021_Spring/2021_Spring_Syllabus_(Seminar).pdf)

Week	Date	Topics/Brief Description	Speaker's Affiliation	Speaker	Host
1	2021/02/25	Prediction of Drug Response in the Precision Medicine Era	Institute of Statistical Science, Academia Sinica	Dr. Grace S. Shieh	Jia-Ying Su
2	2021/03/04	Identifying the Molecular Determinants for Functional Properties of Biomolecules by Integrating Molecular Simulation, Machine Learning, and Graph Theory	Institute of Bioinformatics and Systems Biology, National Yang Ming Chiao Tung University	Dr. Jih-Wei Chu	Po-Yuan Chen
3	2021/03/11 (13:30-15:00)	Identifying Primate ACE2 Variants that Confer Resistance to SARS-Cov-2	Biodiversity Research Center, Academia Sinica	Dr. Wen-Hsiung Li	Jen-Hung Wang
4	2021/03/18	The Microfluidic Device Integrating Surface-Enhanced Raman Scattering for Rapid Antibiotic Susceptibility Test (Abstract)	Department of Electrical Engineering, National Taiwan University	Dr. Nien-Tsu Huang	David Nicola Streuli
5	2021/03/25	Classification of Blood Loss from Prostate Surgery Videos Using Convolutional Neural Network (Abstract)	Institute of BioMedical Informatics, National Yang Ming Chiao Tung University	Dr. Che-Lun Hung	Erickson Erigio Fajiculary
6	2021/04/01	Forecasting Influenza Infection by Deep Learning	Department of Computer Science and Engineering, National Taiwan Ocean University	Dr. Kuan Y. Chang	Yu-Ching Hsu
7	2021/04/08	Review Week	--	--	--
8	2021/04/15	Midterm Exam	--	--	--

9	2021/04/22	Identification of Cancer Prognostic Biomarkers from Multi-Omics Data	Institute of Bioinformatics and Systems Biology, National Yang Ming Chiao Tung University	Dr. Ting Wen Chen	Yu-Chun Huang
10	2021/04/29	Crime Scene Investigation in the RNA World: RNA Degradome Data Analysis	Agricultural Biotechnology Research Center, Academia Sinica	Dr. Ho-Ming Chen	Yueh-Hua Tu
11	2021/05/06	Exploration for Personalized Combinatorial Chemotherapies for Cancers (Abstract)	Department of Electrical Engineering, National Taiwan University	Dr. Hsin-Yu Lee	Hsin-Han Lee
12	2021/05/13	Multi-Site-Targetting Drug Repurposing - Theories and Applications (Abstract)	Institute of Bioinformatics and Structural Biology, National Tsing Hua University	Dr. Lee-Wei Yang	Yu-Hsin Chen
13	2021/05/20 @Webex	Detecting genetic ancestry and adaptation in the Taiwanese Han people (Abstract)	Department of Life Sciences and Institute of Genome Sciences, National Yang Ming Chiao Tung University	Dr. Wen-Ya Ko	Chayanika Goswami
14	2021/05/27 @Webex	Causative Biology and Cryptic Regulatory Mechanisms underlying Autism (Abstract)	Genomics Research Center, Academia Sinica	Dr. Trees-Juen Chuang	Yu-Hsiang Chen
15	2021/06/03	Review Week	--	--	--
16	2021/06/10	Final Exam	--	--	--