TIGP-BIO 2023 Fall Syllabus & Guidelines Student Presentation

Latest syllabus: <u>https://idv.sinica.edu.tw/tigpbio/</u>

Place: Online (Skype): https://join.skype.com/ycvKdxnlMeku

Time: Thursday, 15:30-17:00

Chair: Dr. Chen-Ching Lin (<u>chenching.lin@nycu.edu.tw</u>)

*Effective from the 2014 Fall semester, all TIGP-BP students are required to present once a semester in student presentation.

*First Year Students: the paper should be assigned by your lab professor.

*The following schedule is confirmed and will not be changed. Please contact Dr. Chen-Ching Lin if you do have difficulty with the assigned date.

*The presenter shall introduce the host and attended professors at the beginning of each seminar.

Week	Date	Торіс	Student
1	2023/9/7	No class	
2	2023/9/14	<u>Hypergraph factorization for multi-tissue gene</u> <u>expression imputation</u>	Shang-Kok Ng 黃襄國
3	2023/9/21	Genomic and transcriptomic analysis of checkpoint <u>blockade response in advanced non-small cell lung</u> <u>cancer</u>	Chien-Jung Huang 黃千容
4	2023/9/28	Teachers' Day (NYCUworking day but no class)	
5	2023/10/5	Deep learning based phenotyping of medical images improves power for gene discovery of complex disease	Cai-Sian Liao 廖才嫺
6	2023/10/12	Accurate proteome-wide missense variant effectprediction with AlphaMissense	Daniel Garcia-Ruiz 加西亞丹尼爾
7	2023/10/19	Review Week (no class)	
8	2023/10/26	Midterm Exam (no class)	
9	2023/11/2	Sybil: A Validated Deep Learning Model to Predict Future Lung Cancer Risk From a Single Low-Dose Chest Computed Tomography	Hsu-Ching Huang 黃煦晴
10	2023/11/9	Analysis of the microglia transcriptome across the <u>human lifespan using single cell RNA sequencing</u>	Ping-Yun Ou 歐秉昀
11	2023/11/16	Disease-associated astrocytes in Alzheimer's disease and aging	Yin-Cheng Chen 陳胤丞
12	2023/11/23		
13	2023/11/30		
14	2023/12/7		
15	2023/12/14	Review Week (no class)	

< Seminar presentation guidelines on the following pages >

Seminar presentation guidelines for Ph.D. program students:

2023-01-18

This <u>research</u> seminar course is intended to provide students planning a research career in Bioinformatics with the opportunity to develop the skill of <u>critically reading and evaluating research papers</u>. The course consists of a weekly timetabled session in which students will read, present and discuss research papers published on high impact journals. A fixed threshold of impact factors is not imposed. Use your common sense instead.

Guidelines:

- <u>Research article: Each week, students</u> will choose RESEARCH papers to be presented. The paper (+ supplements) pdf file should be emailed to <u>chenching.lin@nycu.edu.tw</u> (Dr. Chen- Ching Lin), <u>tigpbio@gate.sinica.edu.tw</u> (TIGP-Bioinformatics Program), all students in student presentation class, and also other participating professors at least one week before your in-class seminar presentation takes place. Any delay will result in 10 points deducted from your final grade. Please also send the slides to everyone 2 days before the report. Because some modifications may be made right before the report, it is okay if the slides are not the final version.
- 1. <u>Article selection:</u> You are required to select a recent RESEARCH article that was published <u>after</u> September 2020. (Review articles are NOT acceptable.)
- 2 Presentations: Everyone in the class will present one paper. You should plan to talk for around 40 minutes. Starting from this you should initiate a discussion of the paper (so it is a good idea to conclude your slide presentation with a selection of points to consider and discuss). We should plan to have time for a lively discussion of each paper; your job in giving a presentation is to initiate this discussion. Make sure to
 - a. Draw **valid** conclusions from results of your presented paper.
 - b. Summarize evidence for each conclusion. (How does the paper support its conclusions?)
 - c. Compare the results with other similar experiments published previously, if appropriate.
 - Please refrain from presenting an article written by your supervisor or your friends/classmates. You need to increase the exposure to the breadth and depth of bioinformatics research.
 - Students are encouraged to prepare a few questions for group discussion at the end of the presentation. Students are not expected to simply sit in the class.
 - Please make a rehearsed presentation if you don't know how long your presentation is

going to last. An over-length presentation doesn't translate to a good one.

3. Language of presentation: You are required to present your research article in English.

Evaluation Criteria:

You will be evaluated by the following criteria:

- 1. Your seminar presentation (70%).
- 2. Your participation of discussion (30%). Note: you must participate the discussion, e.g., at least asking one question in each presentation, to obtain this 30% of your final grade. If you don't ask question in any class, this grade will be zero.