

**TIGP Bioinformatics Program**  
**Student Presentation**  
**Spring 2026 Syllabus & Guidelines**

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

**Place:** Online (Google Meet): <https://meet.google.com/bcg-pmrx-yhv>

**Time:** Thursday, 15:30-17:00

**Chair:** Dr. Hsuan-Cheng Huang ([hsuancheng@nycu.edu.tw](mailto:hsuancheng@nycu.edu.tw))

\*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. Hsuan-Cheng Huang 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	Topic	Student	Instructor *BP student's presentation should be evaluated by their respective thesis advisor or lab advisor.
1	2026/2/26	<a href="#">Identifying temporal and spatial patterns of variation from multimodal data using MEFISTO</a>	Thi Huong Giang Pham (BP)	Dr. Chen-Ching Lin
2	2026/3/5	<a href="#">Using deep learning to annotate the protein universe</a>	Ya-Chu Hsu (BP)	Dr. Huai-Kuang Tsai
3	2026/3/12	<a href="#">Protein Set Transformer: a protein-based genome language model to power high-diversity viromics</a>	Hsin-Ying Chang (BP)	Dr. Chuan Ku
4	2026/3/19	<a href="#">The SecM arrest peptide traps a pre-peptide bond formation state of the ribosome</a>	Saptashwa Datta (BP)	Dr. Kazuhiro Takemura
5	2026/3/26	No class	--	--
6	2026/4/2	<a href="#">Complex genetic variation in nearly complete human genomes</a>	Daniel Nelson (BP)	Dr. Shu-Jui Hsu
7	2026/4/9	Review Week (no class)	--	
8	2026/4/16	Midterm Exam Week (no class)	--	

9	2026/4/23	<a href="#">DNA shape and epigenomics distinguish the mechanistic origin of human genomic structural variations</a>	Ru-Yin Jian (BP)	Dr. Huai-Kuang Tsai
10	2026/4/30	<a href="#">Cross-species gene redesign leveraging ortholog information and generative modeling</a>	Hsuan-Ya Chiu (NYCU)	Dr. Hsuan-Cheng Huang
11	2026/5/7	<a href="#">Robust and interpretable prediction of gene markers and cell types from spatial transcriptomics data</a>	Ching-Ya Lin (BP)	Dr. Hsuan-Cheng Huang
12	2026/5/14 Canceled	--	Apriandy Angdresey (BP)	Dr. Hsin-Chou Yang
13	2026/5/21	TBA	Hsu-Ching Huang (NYCU)	Dr. Hsuan-Cheng Huang
14	2026/5/28			
15	2026/6/4	Review Week (no class)	--	
16	2026/6/11	Final Exam Week (no class)	--	

< [Seminar presentation guidelines on the following pages](#) >

## **Seminar presentation guidelines for Ph.D. program students:**

2025-07-10

This research seminar course is intended to provide students planning a research career in Bioinformatics with the opportunity to develop the skill of critically reading and evaluating research papers. 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:**

1. **Research article:** Each week, students will choose RESEARCH papers to be presented.

- a. For NYCU students not in the TIGP-Bio program, the paper (+ supplements) pdf file should be emailed to (1) [hsuancheng@nycu.edu.tw](mailto:hsuancheng@nycu.edu.tw) (Dr. Hsuan-Cheng Huang), (2) [tigpbio@gate.sinica.edu.tw](mailto:tigpbio@gate.sinica.edu.tw) (TIGP-Bioinformatics Program office), (3) all students in student presentation class, and also (4) 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.
  - b. For TIGP-Bio students, the paper (+ supplements) pdf file should be emailed to (1) your thesis advisor/lab advisor, (2) [tigpbio@gate.sinica.edu.tw](mailto:tigpbio@gate.sinica.edu.tw) (TIGP-Bioinformatics Program office), (3) all students in student presentation class, and also (4) 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. **Article selection:** You are required to select a recent RESEARCH article that was published after 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 attendance (10%).
2. Your seminar presentation (90%).