

## Student Science Training Program 2026 Batch 3

13–24 July 2026

### Day 1 (Monday, July 13, 2026)

- 08:30–09:00 Welcome and Introduction  
*Prof. Dr. Banthit Chetsawang*
- 09:00–10:00 Lecture and Demonstration: Laboratory Safety Practices  
*Asst. Prof. Dr. Sirirat Kumarn*
- 10:00–11:00 Overview Lecture: Polymerase Chain Reaction (PCR) and Fluorescent Protein Technology  
*Assoc. Prof. Dr. Chalongrat Noree*
- 11:00–12:00 Laboratory session on Basic Pipetting Technique  
Laboratory session on DNA Cassette Preparation by PCR  
*Assoc. Prof. Dr. Chalongrat Noree, Dr. Phattarunda Jaree, Dr. Wannapa Somjai, Dr. Nattaya Srisawad, Dr. Supajit Sraphet, Dr. Chonticha Saisawang, Ms. Naraporn Sirinonthanaweche and team*
- 12:00–13:00 Lunch
- 13:00–16:00 Laboratory session on Agarose Gel Electrophoresis for Checking the Amplified DNA Cassette  
Laboratory session on PCR Purification  
Laboratory session on Preparation of Overnight Yeast Culture  
*Assoc. Prof. Dr. Chalongrat Noree and team*

### Day 2 (Tuesday, July 14, 2026)

- 09:00–09:30 Laboratory session on Preparation of Log-Phase Yeast Culture  
*Assoc. Prof. Dr. Chalongrat Noree and team*
- 09:30–11:00 Overview Lecture: PCR-Based Yeast Genome Engineering  
*Assoc. Prof. Dr. Chalongrat Noree*
- 11:00–12:00 Computer Lab: Plasmid Construction and Primer Design  
*Assoc. Prof. Dr. Chalongrat Noree and team*
- 12:00–13:00 Lunch
- 13:00–16:00 Laboratory session on Preparation of Competent Yeast Cells and Yeast Transformation  
*Assoc. Prof. Dr. Chalongrat Noree and team*

### Day 3 (Wednesday, July 15, 2026)

- 09:00–09:30 Laboratory session on Replica Plating for Selecting Yeast Transformants  
*Assoc. Prof. Dr. Chalongrat Noree and team*
- 09:30–12:00 Laboratory session on Colocalization Assay (Confocal Imaging of Yeast Samples)  
*Assoc. Prof. Dr. Chalongrat Noree and team*
- 12:00–13:00 Lunch
- 13:00–14:30 Recap and Discussion

*Assoc. Prof. Dr. Chalongrat Noree and team*

14:30 – 16:00 Campus Tour

*Ms. Panutchanat Khamtonwong, Ms. Pinjutha Ratchatamethawin and*

*Mr. Yamyong Kongmahaphuk*

**Day 4 (Thursday, July 16, 2026)**

09:00 – 10:00 Lecture on “Thalassemia”

*Dr. Kittiphong Paiboonsukwong*

10:00 – 12:00 Laboratory session on “DNA Analysis for Alpha-Thalassemia”

*Dr. Thongperm Munkongdee, Dr. Kittiphong Paiboonsukwong,*

*Asst. Prof. Dr. Natee Jearawiriyapaisarn, Asst. Prof. Dr. Phatchariya Phannasil,*

*Dr. Benjaporn Kiatpakdee, Ms. Nattrika Buasuwan, Ms. Usa Nuttapolwat and team*

12:00 – 13:00 Lunch

13:00 – 16:00 Laboratory session on “DNA Analysis for Alpha-Thalassemia” (cont.)

*Dr. Thongperm Munkongdee and team*

**Day 5 (Friday, July 17, 2026)**

09:00 – 10:30 Lecture on “Plant Tissue Culture and Application”

*Dr. Panitch Boonsnongcheep*

10:30 – 12:00 Laboratory session on “Plant Tissue Culture”

*Dr. Panitch Boonsnongcheep, Assoc. Prof. Dr. Kanokporn Triwitayakorn,*

*Dr. Supajit Sraphet, Dr. Nattaya Srisawad, Dr. Piengtawan Tappiban,*

*Ms. Nuanwan Pongtanom, Ms. Somsri Sakdee, and Ms. Nawarat Suksee*

12:00 – 13:00 Lunch

13:00 – 16:00 Laboratory session on “Plant Tissue Culture”

*Dr. Panitch Boonsnongcheep, and team*

**Day 6 (Monday, July 20, 2026)**

09:00 – 10:00 Lecture on “Immunoassay”

*Asst. Prof. Dr. Alita Kongchanagul*

10:00 – 12:00 Laboratory session on Antibody diagnosis

*Asst. Prof. Dr. Alita Kongchanagul, Ms. Kunjimas Ketsuwan, Mr. Iyacoob khunsri,*

*Dr. Ekkarat Rodpai, Ms. Phissinee Jakaew and Ms. Surat Punyahathaikul*

12:00 – 13:00 Lunch

13:00 – 14:00 Lecture on “Real-world applications of molecular biosciences”

*Assoc. Prof. Dr. Poochit Nonejuie*

14:00 – 15:00 Lecture on “Structural Exploration of Coronavirus Drug Targets”

*Asst. Prof. Dr. Duangrudee Tanramluk*

15:00 – 16:00 Laboratory session on “Structural Exploration of Coronavirus Drug Targets”

*Asst. Prof. Dr. Duangrudee Tanramluk, Theptharin Charuraksa and  
Miss Sirapapha Duangchai-ngoen*

**Day 7 (Tuesday, July 21, 2026)**

- 09:00 – 10:00 Lecture on “Animal Cell culture”  
*Dr. Chutima Thepparit*
- 10:00 – 12:00 Laboratory session on “Animal Cell culture”  
*Dr. Chutima Thepparit, Ms. Sanjira Juntarapornchai, Mr. Theeraporn Churod  
Ms. Phissinee Jakaew and team*
- 12:00 – 13:00 Lunch
- 13:00 – 16:00 Laboratory session on “Animal Cell culture”  
*Dr. Chutima Thepparit and team*

**Day 8 (Wednesday, July 22, 2026)**

- 09:00 – 10:00 Lecture on “Genome editing”  
*Asst. Prof. Dr. Alisa Tubsuwan*
- 10:00 – 12:00 Laboratory session on “Genome editing using CRISPR/Cas9”  
*Asst. Prof. Dr. Alisa Tubsuwan, Mr. Pirut Thongngam and team*
- 12:00 – 13:00 Lunch
- 13:00 – 16:00 Laboratory session on “Genome editing using CRISPR/Cas9”  
*Asst. Prof. Dr. Alisa Tubsuwan, Mr. Pirut Thongngam and team*

**Day 9 (Thursday, July 23, 2026)**

- 09:00 – 10:00 Lecture on “Protein Expression and Purification”  
*Assoc. Prof. Dr. Chartchai Krittanai*
- 10:00 – 12:00 Laboratory session on “Protein World: protein isolation and visualization”  
(Bacterial culture, protein expression, protein preparation)  
*Dr. Phattara-orn Havanapan, Assoc. Prof. Dr. Chartchai Krittanai, Dr. Duangnapa Kovanich,  
Dr. Phattarunda Jaree, Asst. Prof. Dr. Ittipat Meewan, Mr. Pannaphan Makarathut, Ms. Nuanwan  
Pongtanom and Ms. Somsri Sakdee*
- 12:00 – 13:00 Lunch
- 13:00 – 16:00 Laboratory session on “Protein World: protein isolation and visualization” (cont.)  
*Dr. Phattara-orn Havanapan and team*

**Day 10 (Friday, July 24, 2026)**

- 09:00 – 10:00 Lecture on “Behavioral studies in animal research”  
*Asst. Prof. Dr. Sukonthar Ngampramuan*
- 10:00 – 12:00 Laboratory session on “The demonstration of animal studies”

*Asst. Prof. Dr. Sukonthar Ngampramuan, Ms. Dungdol Narasirilirk,  
Ms. Jinnipa Matchwong, Ms. Supanee Teerawat and team*

12:00 – 13:00 Lunch

13:00 – 14:00 Lecture on Brain and memory

*Asst. Prof. Dr. Jiraporn Panmane*

14:00 – 16:00 Laboratory session on “Brain anatomy and function”

*Assoc. Prof. Dr. Sujira Mukda, Asst. Prof. Dr. Jiraporn Panmane,*

*Assoc. Prof. Dr. Vorasith Siripornpanich, Ms. Kanda Putthaphongphuek and team*

16:00 – 16:30 Closing ceremony