



## NOTEBOOK

10 March 2019

- Team Korea\_HS established

23 March 2019

- 1st Team Meeting
  - Initial 13 members divided into human practice, collaboration, and wiki teams

26 April 2019

- Official Korea\_HS logo created

28 April 2019

- 2nd Team Meeting
  - Each sub-team presented their short-term and long-term goals for the competition
- 1st Lab
  - Instructors explained lab safety guidelines and how to use lab equipment
  - We double digested the vector plasmid(pET-28b+) and the insert plasmid (scFv(P5)-PUCIDT-AMP) with restriction enzymes(Nde I, Sal I)
  - We checked the digested vector and insert with DNA gel electrophoresis

26 May 2019

- 3rd Team Meeting
  - Each team leader reported his/her sub-team's progress
- 2nd Lab
  - We transformed the recombination plasmid(pET28b+-scFv(P5)) to *E. coli* competent cell(BL21(DE3))
  - We checked the colony on streaked plates the following day (5/27)

9 June 2019

- 4th Team Meeting
  - Human Practices and Collaboration teams presented their planned activities and events that will take place over the summer
- 3rd Lab
  - We purified histidine-tagged scFv(P5) using Ni-NTA resin affinity chromatography

- We checked the scFv(P5) band through SDS-PAGE

13 June 2019

- Dyanne visited ABL Bio (biotech company) to interview Dr. Jung and Dr. An and ask advice for the experiment

23 June 2019

- 5th Team Meeting
  - Dyanne reviewed the interview she conducted at ABL Bio with the rest of the team members, professor, and instructors
- 4th Lab
  - We completed the first part of our Western blot experiment: preparing SDS-PAGE loading samples, transferring gel to PVDF membrane, and preparing primary antibody incubation

27 June 2019

- Isaac, Shannon, and our advisor had the first collaboration meeting with Team NCKU\_Tainan
- Sunwoo and Eunsoo sent our team's 60 hard copies of our postcards to Team Duesseldorf

29 June 2019

- Sean, Nicole, and Jason conducted an online survey, in both English and Korean, to hear the public's opinion on antibodies. They collected a total of 100 responses

7 July 2019

- 6th Team Meeting
  - Each team had a brief checkup on progress with one another
- 5th Lab
  - We completed the second part of our Western blot experiment: secondary antibody incubation and development
- Team Korea\_HS had our first collaboration meeting with Team Cornell

8 July 2019

- Bruce introduced our team's project, the mechanism behind antibodies, the effect of cell-penetrating peptides, and the iGEM competition to middle school students at CheongShim International Academy

14 July 2019

- 7th Team Meeting
  - Our team planned for the public engagement street campaign
- 6th Lab
  - We performed protein binding assay using size exclusion chromatography

16 July 2019

- Hyoju, Alex, Jason, and Sean visited Celltrion to interview Dr. Oh regarding our experiment

21 July 2019

- 8th Team Meeting
  - Each team leader presented his/her sub-team's progress, and we discussed future activities and events to organize
- 7th Lab
  - We performed immunostaining to check if scFv(P5)-CPP penetrated the cell. We used two cell lines: HEK293T and HeLa
- Team Korea\_HS had the second collaboration meeting with Team NCKU\_Tainan

26 July 2019

- Dyanne and Eunsoo attended the Korea Scholar's Conference and presented the team's project to middle school, high school, and university students at the poster symposium

28 July 2019

- Team Korea\_HS hosted the first Korea iGEM Meetup in Seoul and invited Team SIS\_Korea and Team KOREA

4 August 2019

- Nicole, Sean, Sunwoo, Isaac, Dyanne, Hyoju, Eunsoo, Alex, and Sunghyun participated the street sticker campaign and asked four questions to the public:
  - Have you heard of antibodies before?
  - Have you heard of therapeutic antibodies?
  - Have you had any experience with using medicinal antibodies in the past?
  - Do you think there is a severe side effect by using artificial antibodies in medical treatment?
- Sunwoo, Sean, and Cheny had the second collaboration meeting with Team Cornell

10 August 2019

- Jason visited the Suji Elderly Welfare Center and conducted a public opinion survey regarding the use of therapeutic antibodies

11 August 2019

- We conducted the eGFP Expression Measurement Experiment

20 August 2019

- Sunghyun conducted a collaboration Skype meeting with Team KUAS

5 September 2019

- Dyanne conducted the first session of elementary education program at Yongsan International School of Seoul (lab basics, properties of water)

17 September 2019

- Dyanne conducted an interview with former oncologist Dr. Ahn and asked her opinion for the potential therapeutic usage of CPP-attached hyperstable antibodies

19 September 2019

- Dyanne conducted the second session of elementary education program at Yongsan International School of Seoul (strawberry DNA extraction)

6 October 2019

- 9th Team Meeting
  - Our team began to develop the Wiki site
  - We uploaded our parts (BBa\_K3090000, BBa\_K3090001, BBa\_K3090002) to the Registry

7 October 2019

- Nicole and Sean distributed pamphlets to the students at their respective schools. The pamphlets were reflective of the online survey and sticker poll