

Hyun Ju Sung

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Personal profile

Devoted to interdisciplinary academics in biology. Studied from basic biology to bioengineering with Chemistry. Interested in drug discovery and computational biology.

Education

Seoul National University, Republic of Korea

March 2022 – present

Ph.D. in School of Biological Sciences

Pohang University of Science and technology, Republic of Korea

February 2020 –

February 2022

M.S. in Life Science (GPA: 3.94/4.3)

Thesis title: Finding VRK1 inhibitors with virtual screening and its application to cancer treatment

Yonsei University, Seoul, Republic of Korea

March 2012 – February

2018

B.S. in Biotechnology

Research interests

Virtual screening

- Molecular docking and targeting a right motif to find ligands for development of drugs

Computational biology

- Combining computational technologies with biology

Drug discovery

- Finding new drugs to treat diseases

Research Experience

Working as a researcher at POSTECH

2019 August – 2020

February

Finding a treatment for Parkinson's disease

- Using Western blot to analyze the fibrilization of alpha synuclein

Undergraduate Research Assistant

2017 September – 2018

August

Molecular Cancer Research Laboratory (PI: Professor Inkwon Chung), Yonsei University, Seoul, Republic of Korea

- Figuring out a telomere binding protein and discovering their interaction using immunoprecipitation

Korean Undergraduate Biology Symposiums (KUBS)

2017 March – 2017

September

"Movements in cell"

- Cell Division Dynamics : Focusing on Chromosome, Mitotic Spindle, and Cytokinesis

High School Science Research project

2007

Making a medical band-aid using hydrophobicity of capsaicin

- Capsaicin has a hydrophobic property
- Using this feature, my team made an effort to make a medical and practical band-aid for the future use

Volunteer work

Yonsei university Rehabilitation School

- Tutoring disabled students with their math and science

University volunteering program

- Mentoring high school students with their future plans and careers

CP hose for severely disabled people

- Teaching math and science to disabled students

Hyosarang family hospital

- Helping elderly people and learning how to deal with bedsores patients

Teaching Experience

Teaching assistant (2021.9~2022.2)

- Assisted a professor in a General biology course

Private General Biology tutor

- Tutored a high school student

Tutoring at church

- Tutored middle school students with science for their mid-term and final examinations

Conferences and workshops

- WIPO IP(intellectual property) Summer school
- International union of Biochemistry and Molecular biology(IUBMB)

Awards

- Semester Academic Excellence Award (2012.09)
- Korean Olympiad in environmental projects, Silver medal
- Chemical Frontier Festival, Encouragement award

Skills

- Language: English (Toefl 113, 30 of 30 in the speaking section), Korean (native), Chinese (basic level), Spanish (basic level)