



# HAECHANG JUNG

Undergraduate Researcher

Department of Biological Engineering, INHA University  
100, Inha-ro, Michuhol-gu, Incheon, Republic of Korea

"It depends on what you think"

## CONTACT

+82-10-8301-9926

[drsunsun@naver.com](mailto:drsunsun@naver.com)  
[drsuninha@gmail.com](mailto:drsuninha@gmail.com)

Incheon, Republic of Korea

<https://drsunsun.github.io>



## EDUCATION

Feb. 2021~ **INHA University**

Incheon, Korea

Present

Department of Biological Engineering

- Admitted as Top-ranked Student
- Full Tuition Scholarship (Merit-based)

Bachelor Student

Total GPA : 00/4.5, Major GPA : 00/4.5  
(Credits taken(000/130))



## RESEARCH INTERESTS

- Drug Delivery System (DDS)
- Nanomedicine & Nanoparticle-based Delivery
- Polymer & Peptide-based Carrier Design
- Protein / Peptide Engineering
- In silico-assisted Drug Delivery Platform Development



## RESEARCH EXPERIENCES

Jun. 2025~ **Undergraduate Researcher at Hyunjin Kim Research Group**

Incheon, Korea

Present Department of Biological Engineering, INHA University, Korea

- Conducted hands-on experiments in Nanoparticle-based drug delivery systems and Polymer/Peptide carrier research
- Performed Buffer preparation, Agarose Gel electrophoresis, and Protein Analysis experiments
- Executed Cell culture and Transfection experiments, including RAW264.7 and other mammalian cell lines
- Designed and evaluated Human Serum Albumin (HSA)-binding peptide binders (10 aa) as alternatives to lipid-based binders for Semaglutide delivery
- Utilized *in silico* models to design *de novo* peptide binders considering binding affinity, stability, and immunogenicity
- Currently validating peptide-HSA binding through in vitro binding assays
- Mentored junior undergraduate students in core wet-lab techniques and experimental design



## AWARDS AND HONORS



## PROJECTS

Jun. 2025~

**Undergraduate Researcher at Hyunjin Kim Research Group**

Incheon, Korea

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## SKILLS AND TECHNIQUES

- Drug Delivery System (DDS)
- Nanomedicine & Nanoparticle-based Delivery
- Polymer & Peptide-based Carrier Design
- Protein / Peptide Engineering
- In silico-assisted Drug Delivery Platform Development



## EXTRACURRICULAR ACTIVITY

- Drug Delivery System (DDS)
- Nanomedicine & Nanoparticle-based Delivery
- Polymer & Peptide-based Carrier Design
- Protein / Peptide Engineering
- In silico-assisted Drug Delivery Platform Development



## OTHERS

- Drug Delivery System (DDS)
- Nanomedicine & Nanoparticle-based Delivery
- Polymer & Peptide-based Carrier Design
- Protein / Peptide Engineering
- In silico-assisted Drug Delivery Platform Development