



# HAECHANG JUNG

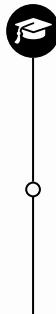
Undergraduate Researcher

Department of Biological Engineering, INHA University  
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*"It depends on what you think"*

## CONTACT

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## EDUCATION

- Feb. 2021~ Present **INHA University** Incheon, Korea  
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~ Present **Undergraduate Researcher at Hyunjin Kim Research Group** Incheon, Korea  
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

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  - Performed Buffer preparation, Agarose Gel electrophoresis, and Protein Analysis experiments
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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