Stanford



Jeongwoong Yoon (Yoon)

Ph.D. Student in Bioengineering, admitted Autumn 2023

Bio

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My previous research focused on the development of toolkit for marine bivalve cell culture and transgene expression. Inspired by the experience, I am seeking to find efficient and universally applicable methods to study non-model organisms that lack research infrastructure. As a biologist, I am exploring how we can rewrite genetic code to understand and engineer multicellular body plan, harnessing synthetic biology and genomics tools.

EDUCATION AND CERTIFICATIONS

- Master of Science, Tohoku University , Agricultural Science (2023)
- Bachelor of Science, Tohoku University , Applied Bioscience (2021)

LINKS

- Personal Website: https://jyoonbioscience.wordpress.com

Publications

PUBLICATIONS

- **Simple Transgene Overexpression using Scallop Hemocyte Culture Platform Enables Functional Genetic Research in Molluscs.** *Marine biotechnology (New York, N.Y.)*
  Yoon, J., Tsuda, T., Bortoletto, E., Sakaguchi, A., Kobayashi, M., Rosani, U., Yokoi, H., Osada, M., Venier, P., Nagasawa, K.
  2025; 27 (3): 94
- **Insights into ADAR gene complement, expression patterns, and RNA editing landscape in Chlamys farreri.** *Fish & shellfish immunology*
  Bortoletto, E., Rosani, U., Sakaguchi, A., Yoon, J., Nagasawa, K., Venier, P.
  2024; 151: 109743
- **Hemocytes of Yesso scallop characterized by cytological, molecular marker, and functional analyses.** *Fish & shellfish immunology*
  Nagasawa, K., Kanamori, M., Yoon, J., Kobayashi, M., Mokrina, M., Kato, T., Osada, M.
  2023; 137: 108751
- **Gene delivery available in molluscan cells by strong promoter discovered from bivalve-infectious virus.** *Proceedings of the National Academy of Sciences of the United States of America*
  Yoon, J., Gu, W. B., Konuma, M., Kobayashi, M., Yokoi, H., Osada, M., Nagasawa, K.
  2022; 119 (45): e2209910119