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Education

2011 PhD Seoul National University

2006 B.S. Seoul National University

Professional Experience

- 2020 Visiting Professor, Department of Chemical and Biological Engineering,
University of California, Irvine
Visiting Professor, Institute of Molecular Biology and Genetics, Seoul
National University
- 2018-Present Associate Professor, Advanced College of Bio-Convergence, Ajou
University
- 2014-2017 Assistant Professor, Department of Environmental Engineering, Ajou
University
- 2012-2014 Research Scientist, Department of Chemical and Biomolecular
Engineering, University of California, Los Angeles
- 2011-2012 Post Doctor, Institute of Molecular Biology and Genetics, Seoul National
University

Selected Publications

Yong Yuk, Ji-Hwan Jang, SeoA. Park, HyunA. Park, Jung-Oh Ahn, Yung-Hun Yang, Sion Ham, See-Hyoung Park, Kyungmoon Park, Su Young Kim, Young Soo Kim, Jeongchan Lee, Uk-Jae Lee, Byung-Gee Kim, Kwon-Young Choi, Production of bio-indigo dye by surmounting its physical and chemical insoluble nature. *Dyes and Pigments*, 2023. 218.

Jeongchan Lee, Joonwon Kim, Ji Eun Song, Hee-Jin Jeong, Hye Rim Kim, Ji Eun Song, Eun-Jung Kim, Won-Suk Song, Yun-Gon Kim, Byung-Gee Kim, Production of Tyrian purple indigoid dye from tryptophan in *Escherichia coli*. *Nature Chemical Biology*, 2021. 17, 104–112.

Kwon-Young Choi, A review of recent progress in the synthesis of bio-indigoids and

their biologically assisted end-use applications, *Dyes and Pigments*, 2020. 181.

HyunA Park, Gyuyeon Park, Wooyoung Jeon, Jung-Oh Ahn, Yung-Hun Yang, Kwon-Young Choi, Whole-cell biocatalysis using cytochrome P450 monooxygenases for biotransformation of sustainable bioresources (fatty acids, fatty alkanes, and aromatic amino acids), *Biotechnology Advances*, 2020, 40.

Seyun Namgung, Hyun A. Park, Joonwon Kim, Pyung-Gang Lee, Byung-Gee Kim, Yung-Hun Yang, Kwon-Young Choi, Ecofriendly one-pot biosynthesis of indigo derivative dyes using CYP102G4 and PrnA halogenase, *Dyes and Pigments*, 2019. 162, 80-88.