

Dongseok Kim



- Current affiliation: Evolutionary Genomics Laboratory (PI: Hwan Su Yoon), Department of Biological Sciences, Sungkyunkwan University, Suwon, 16419, South Korea

- Future affiliation (Start date: 09/01/2023) : The Evolution of Cells, Symbionts, and Organelles Laboratory (PI: Sergio A. Muñoz-Gómez), Department of Biological Sciences, Purdue University, West Lafayette, IN 47907-2054, U.S.

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- Google Scholar & YouTube :
<https://scholar.google.com/citations?user=Y3vv3BcAAAAJ&hl=ko>
<https://www.youtube.com/@user-jq9br9dl3q>

EDUCATION

Purdue University, West Lafayette, U.S.

- Postdoctoral Researcher in Biological Sciences Sep. 2023 –

Sungkyunkwan University, Suwon, Korea

- M.S./Ph.D. course in Biological Sciences (Evolutionary Genomics) Mar. 2017 – Aug. 2023
- B.S. in Computer Engineering Mar. 2015 – Feb. 2017
- B.S. in Biological Sciences Mar. 2010 – Feb. 2017

MILITARY SERVICE (Mandatory)

Auxiliary police in Mobile Police Headquarters, Seoul, Korea Apr. 2013 – Jan. 2015

RESEARCH INTERESTS

Genome evolution, Phycobilisome, Astrobiology, Extremophile, Bioinformatics, Genomics, Microbiology, Endosymbiosis

SKILLS AND TECHNIQUES

Next Generation Sequencing, DNA/RNA extraction, Bioinformatics, Algal cultivation, Algal pigment extraction

PUBLICATIONS

1. **Dongseok Kim**, Hwan Su Yoon, "Genomic analysis provides insight into phycobilisome evolution in *Porphyridium*", in progress, (2023)
2. **Dongseok Kim**, JunMo Lee, Chung Hyun Cho, Eun Jeung Kim, Debashish Bhattacharya, Hwan Su Yoon, "Group II intron and repeat-rich red algal mitochondrial genomes demonstrate the dynamic recent history of autocatalytic RNAs", **BMC BIOLOGY**, (2022)
3. JunMo Lee, **Dongseok Kim**, Debashish Bhattacharya, Hwan Su Yoon, "Expansion of phycobilisome linker gene families in mesophilic red algae", **NATURE COMMUNICATIONS**, (2019)
4. **Dongseok Kim**, JunMo Lee, Ji Won Choi, Ji Hyun Yang, Il-Ki Hwang, Hwan Su Yoon, "Flip-flop organization in the chloroplast genome of *Capsosiphon fulvescens* (Ulvophyceae, Chlorophyta)", **JOURNAL OF PHYCOLOGY**, (2019)

CONFERENCES

1. **Dongseok Kim**, Hwan Su Yoon, "Differential phycobilin evolution in three red algal *Porphyridium* species", 36th Annual Meeting of the Korean Society of Phycology, Jeju, Korea (Oct. 2022) - Oral
2. **Dongseok Kim**, Hwan Su Yoon, "Differential Photopigment Evolution in Three Red Algal *Porphyridium* Species", AbSciCon 2022, Atlanta, United States (May. 2022) - Oral
3. **Dongseok Kim**, Hwan Su Yoon, "Genomic Analysis Provides Insight into Phycobilisome Evolution in *Porphyridium*", Joint Aquatic Sciences Meeting 2022 (JASM2022), Michigan, United States (May. 2022) - Oral
4. **Dongseok Kim**, Hwan Su Yoon, "Pigment evolution: Same genus but different pigment in *Porphyridium*", 2022 Wando International Seaweed Symposium, Wando, Korea (May. 2022) - Oral
5. **Dongseok Kim**, JunMo Lee, Louis Graf, Chung Hyun Cho, Eun Jeung Kim, Hwan Su Yoon, "Rapid mitochondrial genome growth in three species of the red alga *Porphyridium*", 12th International Phycological Congress - IPC2021, Puerto Varas, Chile (Mar. 2021) - Oral
6. **Dongseok Kim**, Hwan Su Yoon, "Unusual mitochondrial genome expansion in three *Porphyridium* species (Rhodophyta)", IUMS 2020, Daejeon, Korea (Oct. 2020) - Oral
7. **Dongseok Kim**, Hwan Su Yoon, "Comparative genomic study of the genus *Porphyridium*", 23rd International Seaweed Symposium, Jeju, Korea (Apr. 2019) - Poster
8. **Dongseok Kim**, JunMo Lee, Ji Won Choi, Ji Hyun Yang, Il-Ki Hwang, Hwan Su Yoon, "Flip-flop organization in the chloroplast genome of *Capsosiphon fulvescens* (Ulvophyceae, Chlorophyta)", 2018 PSA/ISOP conference, Vancouver, Canada (Jul. 2018) - Oral
9. **Dongseok Kim**, "Flip-flop organization in the chloroplast genome of *Capsosiphon fulvescens* (Ulvophyceae, Chlorophyta)", 32nd Annual Meeting of the Korean Society of Phycology, Gangneung, Korea (Oct. 2018) - Oral
10. **Dongseok Kim**, Ji Won Choi, JunMo Lee, Hwan Su Yoon, "Complete chloroplast genome and "flip-flop" structure of chloroplast genome of *Capsosiphon fulvescens* (Ulotrichales, Ulvophyceae)", 31st Annual Meeting of the Korean Society of Phycology, Tongyeong, Korea (Nov. 2017) - Poster

AWARDS AND HONORS

1. Travel grant for ISE 2023 conference, Chicago (July. 2023)
2. Best Paper Award, The Korean Society of Phycology, Korea (Oct. 2022)
3. SKKU Graduate Student Research Paper Awards (**Prize: 4 million won**), Sungkyunkwan university, Korea (Oct. 2022)
4. The Global Young Scientists Summit (GYSS) 17-20 JAN 2023, National Research Foundation Singapore, Singapore (Sep. 2022)
5. Best Paper Award, Wando International Seaweed Symposium [The Korean Society of Phycology], Korea (May. 2022)
6. Best Paper Award, Sungkyunkwan University BK21+, Korea (Jan. 2022)
7. SKKU Research Matters (2nd), Sungkyunkwan university, Korea (Jan. 2022)
8. Research incentives for doctoral students (**Fund: 20 million won per year, 2 years**), National Research Foundation of Korea (NRF), Korea (Jun. 2020 ~ May. 2022)
9. Best Paper Award, Sungkyunkwan University BK21+, Korea (Dec. 2019)
10. Best Paper Award, Korea Fisheries Resources Agency (FIRA), Korea (Oct. 2018)