Dr. Da Huo

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CAREER VISION

My work has been focusing on the population genetics of the bloom-forming cyanobacteria and terrestrial cyanobacteria. By combining genomics and evolutionary biology techniques, my research reconstructed the evolutionary history of key taxa in cyanobacteria and explained the evolutionary mechanism by combining the changes of key genes.

EDUCATION

- 2018-2021 **Doctor of Philosophy** (Hydrobiology), Institute of Hydrobiology, Chinese Academy of Sciences, China
- 2015-2018 MSc (Aquaculture), Tianjin Agricultural University, China
- 2011-2015 BSc (Aquarium Science and Technology), Tianjin Agricultural University, China

EMPLOYMENT

2021- **Postdoctoral Special Research Assistant**, Institute of Hydrobiology, Chinese Academy of Sciences, China

2016-2018 Visiting Students, Institute of Hydrobiology, Chinese Academy of Sciences, China

RESEARCH SERVICE

- 2023- Review Editor, Frontiers in Microbiology
- 2023- Guest Editor of Special Issue, Microorganisms
- 2022 Annual Best Reviewer, Journal of Lake Sciences (Top Journal of Freshwater ecology In China)
- 2021- Invited reviewers, Global Change Biology

2021- Invited reviewers, Harmful Algae

2021-2022 Member, International Society of Microbiology Ecology (ISME)

2021-2025 Member, Society for Molecular Biology and Evolution (SMBE)

SELECTED JOURNAL ARTICLES

- Guo X, Li H, Huo D, et al. Aridity modulates biogeographic distribution and community assembly of cyanobacterial morphotypes in drylands[J]. *FEMS Microbiology Ecology*, 2023, 99(6): fiad053.
- 2 **Huo D**, Gan N, Geng R, et al. Cyanobacterial blooms in China: Diversity, distribution, and cyanotoxins[J]. *Harmful Algae*, 2021, 109: 102106.
- 3 **Huo D**, Li H, Cai F, et al. Genome evolution of filamentous cyanobacterium *Nostoc* species: From facultative symbiosis to free living[J]. *Microorganisms*, 2021, 9(10): 2015.
- 4 Li H, Huo D, Wang W, et al. Multifunctionality of biocrusts is positively predicted by network topologies consistent with interspecies facilitation[J]. *Molecular Ecology*, 2020, 29(8): 1560-1573.
- 5 Huo D, Chen Y, Zheng T, et al. Characterization of *Microcystis* (Cyanobacteria) genotypes based on the internal transcribed spacer region of rRNA by next-generation sequencing[J]. *Frontiers in microbiology*, 2018, 9: 971.
- 6 Huo D, Chen Y, Liu P, et al. Molecular detection of microbial communities associated with *Microcystis* vs *Synechococcus* dominated waters in Tianjin, China[J]. *Journal of Oceanology and Limnology*, 2018, 36(4): 1145-1156.

GRANTS

- A multi-level response strategy for the adaptation of Raphidiopsis raciborskii populations to low temperature environments, China postdoctoral science foundation, 2021-2023, 80,000 CNY, PI
- Algicidal efficiency of water quality regulators and its ecological risk assessment, Corporate commissioned projects, 900,000 CNY,PI
- Mechanisms and ecological effects of microbial-driven carbon and nitrogen cycling in lakes, NSFC, 900,000 CNY, Key Personnel