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Education:
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Research:

Bacteria inhabiting inland water bodies and wetlands play an important role in the functioning of these ecosystems. Yet, our knowledge about the diversity, ecology, and biogeography of these bacteria is still superficial. Using a variety of experimental strategy, ranging from in situ modeling to large geographical scale investigation, and multiple experimental approaches, ranging from cultivation to cultivation-independent molecular methods, our lab seeks to study the diversity of bacteria and their responses to environmental change and to understand the impacts of the resolved diversity on inland water and wetland ecosystem function. Based on the obtained knowledge on structure and function of microbial communities in these habitats, we also attempt to restore those deteriorated ecosystems of inland water bodies and wetlands by means of bioremediation and ecological restoration.