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Call for Papers

Special Collection on Recent Advances in Bioreactor Microbiome Research



Aims & Scope

Representing the largest biotechnological industry in the world by volume, wastewater treatment (WWT) bioreactors are microbial ecosystems that consist of protozoa, fungi, bacteria, archaea and viruses to treat wastewater and recover valuable resources. Bioreactor performance is determined by the diversity, density, and activity of microorganisms interacting in the microbiome, shaped by specific bioreactor operating conditions. Molecular sequencing and mass spectrometry approaches have now been widely used to examine wastewater microbiomes, with the goal of improving bioreactor operations and performance. This special collection highlights the recent omics-based approaches for investigating wastewater bioreactor microbiomes.

This special collection will focus on the following major themes:

- Wastewater microbiome exploration and characterization, tools and discoveries
- Indicators from high-throughput sequencing and meta-omics data to inform system performance (failures and good performance)
- Bioreactor microbial ecology and model development
- Role of engineering parameters on wastewater microbiome structure and function
- Identification and elimination of microbial risks (including pathogens and antimicrobial resistances [AMRs])

continued on reverse

Journal of Environmental Engineering

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Manuscript Submission Guidelines

1. Please submit your manuscript via ASCE Journal of Environmental Engineering website:
<https://www.editorialmanager.com/jrneeng>
2. Once on the Editorial Manager website, please indicate that your paper is for the special collection "Recent Advances in Bioreactor Microbiome Research" edited by Yang Liu, Bing Guo, Christopher Lawson, and Guangxue Wu.
3. Detailed information on the submission process is provided in the document "Publishing in ASCE Journals: A Guide for Authors" available at <https://ascelibrary.org/doi/book/10.1061/9780784479018>.

Submission Deadline: September 1, 2022

All accepted papers submitted in response to this Call for Papers will be published in regular issues of the ASCE *Journal of Environmental Engineering* and assembled online on a page dedicated to this Collection. See <https://ascelibrary.org/page/joeedu/specialcollections> for the list of Special Collections already published.

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