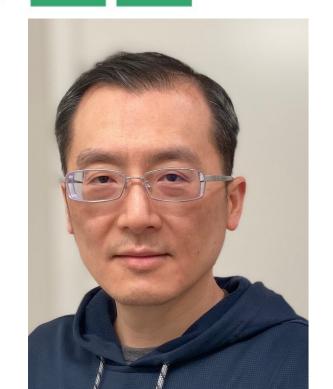


### 國立中央大學 National Central University

## 環境工程研究所

**Graduate Institute of Environmental Engineering** 



# **Environmental Biogeochemistry Lab**

Multidisciplinary research training spans the interface between microbiology, geochemistry, and environmental engineering

Principal Investigator: Chu-Ching Lin (林居慶)

#### **Lab Statement**

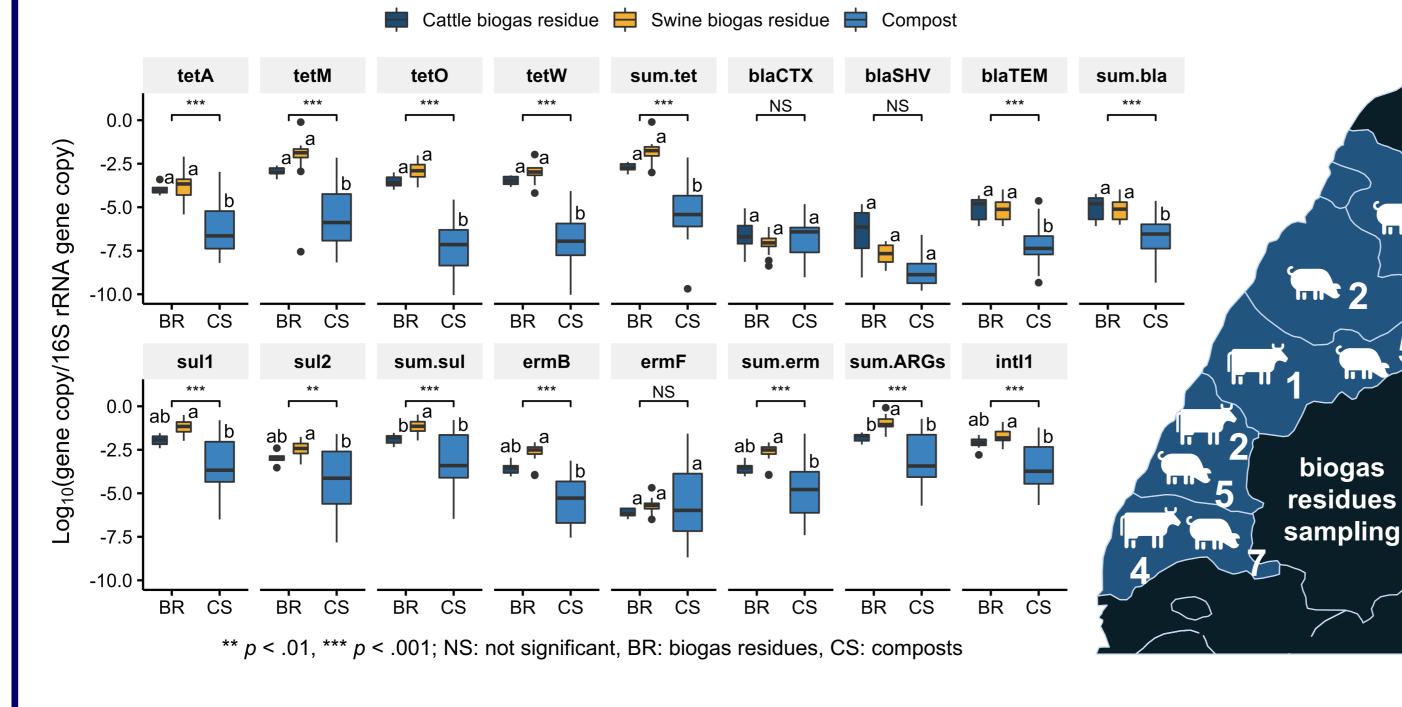
- In this laboratory, we care deeply about the health of our environment.
- We firmly believe that "science is real" and "successful solutions to environmental problems come from fundamental research".
- We welcome individuals with diverse backgrounds (undergraduate major, race, ethnicity, gender, religion, nationality, sexual orientation, etc.) who are interested in our research and passionate about environmental issues to join us.

#### **Research Interests**

- Eco-friendly in situ contamination remediation and GHG mitigation technology
- Environmental emergence and proliferation of antibiotic resistance
- · Microbial toxicity of engineered nanoparticles in aquatic systems
- Bioavailability and biogeochemical cycling of trace metal(loid)s

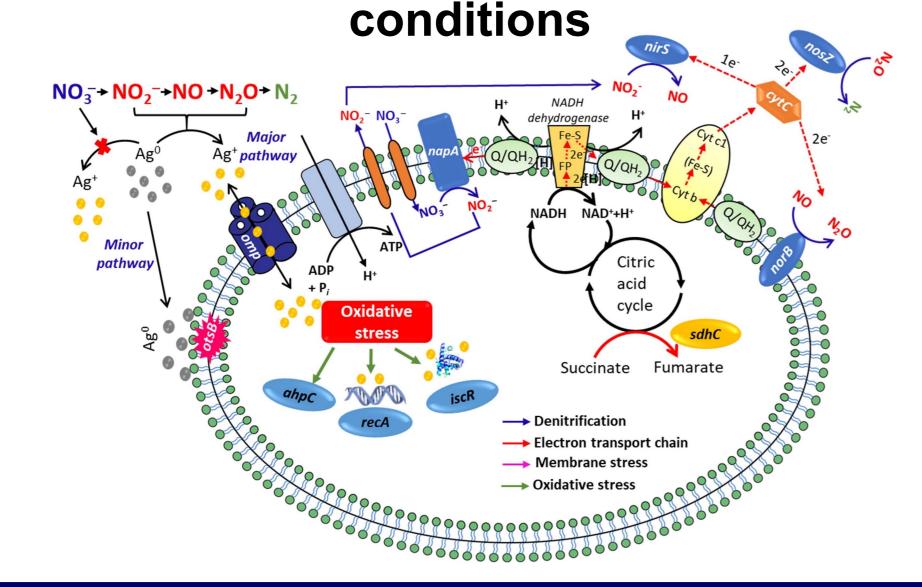
#### **Selected Projects**

Potential for facilitated proliferation of antibiotic resistance genes in arable soils resulting from biogas residues application as fertilizer





Stability and bactericidal activity of silver nanoparticles (AgNPs) under denitrifying



Biochars for *in situ* remediation of rice paddies contaminated with multiple chalcophiles

