

# 30<sup>th</sup> Special seminar on The IDEC Institute, 17<sup>th</sup> PHIS Seminar

**Date:** July 12TH, 2023, 12:00~

**Place:** Hiroshima University, Graduate School of  
Advanced Sciences of Matter Build, 6F Seminar room

**Online:** <https://x.gd/RECdt>

**Title :** Protecting vulnerable environments for a sustainable future in the light of technological progress

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## Abstract

Sensitive environments, including biodiversity hotspots in close proximity to human communities, are highly vulnerable to human impacts. Here we present four case studies, including three sulphur springs and an ice cave, to illuminate the intricate dynamics between these environments and human activities. Although technological advances hold promises for mitigating human impacts, a critical question is whether they alone are sufficient. We also argue for an interdisciplinary and holistic approach and emphasize the importance of assessing the environmental impacts of technological applications. Using the example of blackwater and graywater treatment solutions in remote areas, we demonstrate the importance of a comprehensive assessment of environmental impacts to protect these areas for a sustainable future.

Microbial Genomics and Ecology



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