

シンポジウム S07

Session 7

Cultivation-driven discovery of novel microbial functions and phylogenyConveners: Hideyuki Tamaki¹, Koji Mori²¹AIST BPRI, ²NITE NBRC**培養法で切り拓く未知微生物の新機能**コンビーナ・座長：玉木 秀幸¹、森 浩二²¹産総研・生物プロセス、²NITE NBRC**Key word : cultivation, uncultured microbes, novel microbial functions, novel phylogeny**

Even in the revolutionized DNA sequencing era, culturing microbes is one of the most convincing ways to know their way of living. In this symposium session, recent topics on novel microbial functions and phylogeny revealed by the combination of culture-dependent and -independent approaches will be introduced. In particular, we bring together researchers from different disciplines and highlight the importance of cultivation-based studies with a combination use of advanced molecular techniques including next generation sequencing technology to better understand diversity and functions of the unseen majority in the microbial ecosystems. We hope to unite the power of cultivation dependent approach in microbial ecology study, and to share its future direction.

本シンポジウムでは、培養法を巧みに活用して、環境中に広く棲息する未知微生物の多様な新機能を解明する最新の研究成果について紹介する。特に、大量シーケンス情報解析時代の中で、微生物生態学研究において培養することの重要性を再認識するとともに、培養法と最新の分子手法を相互補完的に駆使しながら未知微生物の実像を明らかにしてゆくことの意義、課題、今後の展望について議論する。