

生物工学研究センターセミナー

来聴歓迎(参加自由)

日時: 平成 31 年 3 月 19 日(火) 14 時 00 分から 15 時 00 分まで

場所: 生物工学研究センター1F K115 共同会議室

演者: 南京大学・生命科学院・教授 戈 惠明氏

内容: 「Genome mining and biosynthesis of microbial natural products

要旨: Natural products with architecturally distinct scaffolds remain the best source or inspiration for drug development and continue to inspire novel chemistry, biology, pharmacology and enzymology investigations. However, bioactive natural products that are easily accessible using traditional discovery strategies are repeatedly isolated, rendering the exploration of natural products as drug leads inefficient. The recent advances in genome sequencing revealed that fungi and actinobacteria have greater potential to produce more secondary metabolites than are currently isolated, as millions of putative biosynthetic gene clusters are hidden in their genomes. In this talk, we will briefly report our recent progress in natural product discovery through genome mining strategy. And also, we disclosed some interesting novel enzymatic chemistries involved in the construction of complex natural products.

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