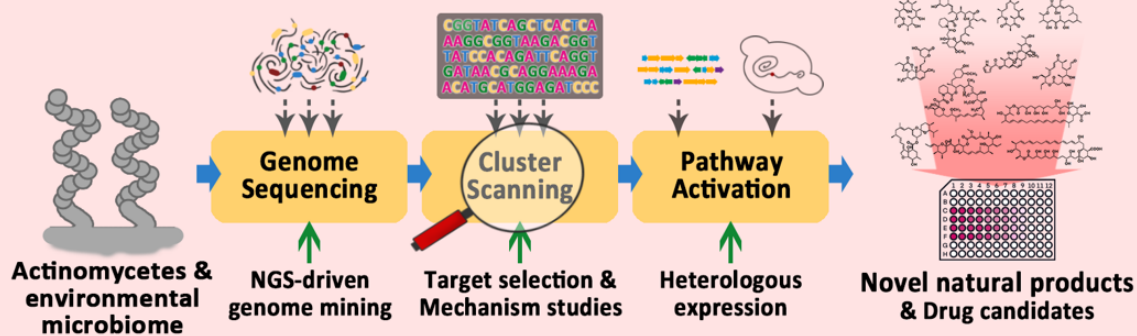




The 5th A3 Foresight **Online** Symposium on "Chemical & Synthetic Biology of Natural Products"

'Genome-to-Product' (GTP) strategy in post corona era



Oct. 30, 2020

A3 Foresight Network



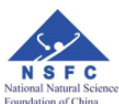
인하대학교
INHA UNIVERSITY



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東京大学
THE UNIVERSITY OF TOKYO



JSPS 日本学術振興会
Japan Society for the Promotion of Science

Session 1 Research Presentations from Korea

- 13:00 ~ 13:05 Opening remarks by **Eung-Soo Kim**
- 13:05 ~ 13:20 Synthetic biology platform for transcriptional refactoring of natural product biosynthetic gene clusters
Hahk-Soo KANG (Konkuk University, Korea)
- 13:20 ~ 13:35 Rhizolutin, the first novel compound that dissociates amyloid beta plaques and tau tangles from a rhizospheric bacterium
Dong-Chan OH (Seoul National University, Korea)
- 13:35 ~ 13:50 Secondary metabolites from endophytic *Colletotrichum* sp.
Sang Hee SHIM (Duksung Women's University, Korea)
- 13:50 ~ 14:00 Systematic approach for discovery of novel secondary metabolites in Streptomyces
Byung-Kwan CHO (Korea Advanced Institute of Science and Technology, Korea)
- 14:00 ~ 14:10 Development of Non-Immunosuppressive FK506 Analogues as Antifungal and Neurotrophic Agents
Yeo Joon YOON (Seoul National University, Korea)
- 14:10 ~ 14:20 Identification and enhancing production of a novel macrolide compound in engineered *Streptomyces peucetius*
Jae Kyung SOHNG (Sun Moon University, Korea)

Coffee Break

Session 2 Research Presentations from China

- 14:35 ~ 14:40 Opening remarks by **Linquan BAI**
- 14:40~14:50 Identification and attenuation of shunt pathways for acarbose overproduction
Linquan BAI (Shanghai Jiao Tong University, China)

- 14:50 ~ 15:05 Activation & biosynthetic studies of a cryptic gene cluster revealing new insights into Type II PKSs
Gongli TANG (Shanghai Institute of Organic Chemistry, China)
- 15:05 ~ 15:20 Biosynthesis of bacterial heterodimeric ketopiperazines
Xudong QU (Shanghai Jiao Tong University, China)
- 15:20 ~ 15:35 An endogenous quorum-sensing based CRISPRi circuit for autonomous and tunable dynamic regulation of multiple targets in *Streptomyces*
Yinhua LU (Shanghai Normal University, China)
- 15:35 ~ 15:50 Biogenesis of the fungal indole alkaloid brevianamide A
Shengying LI (Shandong University, China)
- 15:50 ~ 16:05 Multi-layer controls of Cas9 with ATP synthase over-expression for efficient genome editing in *Streptomyces*
Xuming MAO (Zhejiang University, China)

Coffee Break

Session 3 Research Presentations from Japan

- 16:20 ~ 16:25 Opening remarks by **Yasuo Ohnishi**
- 16:25 ~ 16:40 Structural and biochemical analyses of methyloxazoline-forming tridomain-nonribosomal peptide synthetase
Yohei Katsuyama (University of Tokyo, Japan)
- 16:40 ~ 16:55 Biosynthesis of the phosphonate antibiotic fosfomycin
Tomohisa Kuzuyama (University of Tokyo, Japan)
- 16:55 ~ 17:10 RIPPs (ribosomally synthesized and post-translationally modified peptides) biosynthesis in *Streptomyces*
Hiroyasu Onaka (University of Tokyo, Japan)
- 17:10 ~ 17:25 Biosynthetic studies on β -amino acid-containing macrolactam antibiotics
Fumitaka Kudo (Tokyo Institute of Technology, Japan)

- 17:25 ~ 17:40 Biosynthesis and cell-penetrating activity of bacterial homopoly(amino acid)s
Yoshimitsu Hamano (Fukui Prefectural University, Japan)
- 17:40 ~ 17:55 Recent overview of biosynthetic machinery, structural redesign, regulation, and genome mining in Actinomycetes
Kenji Arakawa (Hiroshima University, Japan)
- 17:55 ~ 18:00 Closing remarks by **Eung-Soo Kim, Linqun BAI, and Yasuo Ohnishi**