

Symposium on Biodiversity-Based Low-Carbon Green Technology

Host: Division of Biochemical Engineering, NIBR(Nat'l Institute of Biological Resources), KAIST
 Sponsor: NIBR(Nat'l Institute of Biological Resources), KAIST

Pusan BEXCO Room 206

2024. 10. 17.(Thu), 09:00~10:40

Chair: Jeong Chan Joo, Kyung Hee Univ.

09:00	Opening remarks	Minkyu Oh, Korea Univ.
09:05	Congratulatory remarks	Bok-Chul Chung, NIBR(Nat'l Institute of Biological Resources)
09:10	[Keynote Lecture] Trends in biological greenhouse gas reduction policies and research	Moonsuk Hur, NIBR(Nat'l Institute of Biological Resources)
09:30	[Keynote Lecture] Stepping on the gas: Innovating for a circular bioeconomy	Michael Köpke, Lanza Tech
09:50	Biotransformation of methane gas into value-added products using methanotrophs	Eun Yeol Lee, Kyung Hee Univ.
10:05	Synthetic biology of acetogenic bacteria for sustainable C1 gas bioconversion	Byung-Kwan Cho, KAIST
10:20	Comprehensive study of bioleaching for recycling of critical minerals, lithium, nickel, cobalt from spent lithium ion battery using indigenous bacterial species	Junmo Ahn, Jeonbuk Nat'l Univ.

Keynote Speaker



Moonsuk Hur, NIBR
 2012 PhD, Biotechnology, Inha Univ.
 2014 Research Officer, NIER
 Present Senior Research Officer, NIBR



Michael Köpke, Lanza Tech
 1998 PhD, Biotechnology, Univ. of Ulm, Germany
 Present Chief Innovation Officer, LanzaTech, USA
 Adjunct Lecturer, Northwestern Univ., USA

Invited Speaker



Eun Yeol Lee, Kyung Hee Univ.
 1995 PhD, Chem. Technol., Seoul Nat'l Univ.
 2007 Visiting Prof., Biomedical Eng., Cornell Univ.
 Present Prof., Chem. Eng., Kyung Hee Univ.



Junmo Ahn, Jeonbuk Nat'l Univ.
 2020 PhD, Mining&Geological Eng., Univ. of Arizona.
 2022 Manager, LS-MnM Inc
 Present Prof., Mineral Resources&Energy Eng., Jeonbuk Nat'l Univ.

Organizer/Speaker



Byung-Kwan Cho, KAIST
 2003 PhD, Biochem. Eng., Seoul Nat'l Univ.
 2009 Postdoc., Bioeng. UCSD
 Present Prof., Biol. Sci., KAIST

Organizer



Soo-Jin Yeom, Chonnam Nat'l Univ.
 2010 PhD, Biotechnology, Konkuk Univ.
 2019 Senior researcher, Center for synthetic biology, KRIIBB
 Present Assoc. Prof., Biological Sciences and Technology, Chonnam Nat'l Univ.

Chair



Jeong Chan Joo, Kyung Hee Univ.
 2011 PhD, Chem. Eng., Seoul Nat'l Univ.
 2020 Center for Bio-based Chemicals, KRICT
 2024 Prof., Biotech., The Catholic Univ. of Korea
 Present Prof., Chem. Eng., Kyung Hee Univ.