Converting renewable resources to bio-based chemicals by biomanufacturing is an important technical route to deal with the current energy, resource, and environmental problems. In addition to traditional feedstocks such as starch, utilization of agricultural biomass, marine biomass, and one-carbon compounds as substrates for biomanufacturing of chemical is drawing more and more attention. Meanwhile, related technologies for bioconversion are developing rapidly. Under the demand of carbon peak and carbon-neutrality development, the biomanufacturing of chemicals is an important direction of scientific research and becomes a new highlight of green and low-carbon development in industry.

This workshop aims to promote dialogue between scientists and enterprises and explore potential cooperation opportunities for joint R&D and industrial collaboration on bio-based chemicals.
Prof. Akihiko Kondo is a Professor at School of Science, Technology and Innovation, Kobe University, Japan. He received his Ph.D. from Kyoto University in Chemical Engineering in 1988. He was appointed as full professor of Kobe University in Department of Chemical Science and Engineering in 2003. He was appointed a dean of School of Science, Technology and Innovation at Kobe University in 2016, a deputy director of RIKEN CSRS in 2020 and a vice president at Kobe University in 2021. He has developed various platform technologies such as cell surface display systems, metabolic pathway design tools, metabolic analysis technologies, genome editing and long chain DNA synthesis technologies. He is a co-founder of several companies including BioPalette (genome editing), Synprogen (genome synthesis), AlgaeNexus (microalgae) and Bacchus Bioinnovation (Biofundi).

Prof. Volker F. Wendisch holds the Chair of Genetics of Prokaryotes at the Faculty of Biology at Bielefeld University, Germany. He serves as deputy scientific director of its Center for Biotechnology CeBiTec and is member of the board of CLUB2021, an international open innovation cluster of stakeholders active in biotechnology and bioeconomy from universities and universities, inns, SMEs, and industry based in Düsseldorf, Germany. Volker F. Wendisch received his diploma in biology from Cologne University, Germany. After having completed his PhD at the Institute of Biotechnology 1 of the Research Center Jülich in 1997, he worked as postdoctoral researcher at the University of California, Berkeley, CA, USA. From 2006-2009 he was Professor for Metabolic Engineering at Münster University. Prof. Wendisch’s research interests concern genome-based metabolic engineering of industrially relevant microorganisms, systems and synthetic microbiology.

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Prof. Verawat Champreda is the Director of the Biorefinery and Bioproduct Technology Research Group, National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand. He finished his Ph.D. from Imperial College London, UK in 2003 in biocatalysis. His research interest is focused on enzyme discovery using metagenomic technology, biomass conversion, and enzyme applications in biorefineries. His research also extends to the development of green process for biomass fractionation and integrative bio/catalytic approach for production of biofuels and commodity chemicals from renewable carbon resources. To date, Dr. Verawat has more than 140 publications in international journals with awards from local and international institutions, including the Young Scientist award 2010 from the Foundation for the Promotion of Science and Technology, Thailand and the Young Asian Biotechnologist Prize 2018 from the Society of Biotechnology, Japan, and the Taguchi Award 2019 from the Thai Society of Biotechnology.

Prof. Shuang Li currently holds a position as full professor in the School of Biology and Biological Engineering, South China University of Technology. She obtained her B.S. and Ph.D. degrees in Chemical Engineering from Tsinghua University in 2001 and 2006. She is interested in the aspect of synthetic biology, including the development of micro-organisms for the total and sustainable conversion of biomass into bio-based products and the screening and evolution of new functional enzymes.

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