

Mini-symposium

RED yeast; biodiversity, breeding and fermentation

Date; 14 October

Venue; International Center for Biotechnology (ICBiotech), The University of Osaka
<https://www.icb.osaka-u.ac.jp/home-en/>

10:00-10:10	Opening remarks Dr. Eiichiro Fukusaki (Director, Industrial Biotechnology Initiative Division (OTRI), and Graduate School of Engineering, The University of Osaka) Dr. Kohsuke Honda (Director, ICBiotech, The University of Osaka) Dr. Kazuhito Fujiyama (ICBiotech, The University of Osaka)
10:10-10:50	Dr. Verawat Champredat (National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand) Conversion of lignocellulosic biomass to 2G oligosaccharides: biocatalytic and hydrothermal processes
TAXONOMY/MICROBIAL COLLECTION	
10:50-11:20	Dr. Pannida Khunnamwong (Kasetsart University, Thailand) Biodiversity of Red Yeasts on Pineapple Leaf Surfaces and Screening for Their Carotenoid Production Potential
11:20-11:50	Dr. Chutima Kaewkrajay (Phranakhon Si Ayutthaya Rajabhat University, Thailand) Carotenogenic Marine Yeasts: Selection and Optimization on Low-Cost Carbon Sources
11:50-13:00	<i>LUNCH</i>
13:00-13:30	Dr. Atit Kanti (National Research and Innovation Agency, Indonesia) Exploration of Indonesia's Yeast Biodiversity to Support Bioindustry Development
13:30-13:50	Dr. Enkhamgalan Jigjiddorj (Mongolian Academy of Sciences, Mongolia) ONLINE The Mongolian National Culture Collection of Microorganisms and Its Red Yeast Isolates
13:50-14:00	<i>BREAK</i>

BREEDING

- 14:00-14:20 Ms. Ma. Christine Balanay Cabatlao (D1, ICBiotech, The University of Osaka)
Elucidation of the Genes Affecting Lipid Overproduction in *Rhodotorula mucilaginosa*
- 14:20-14:40 Mr. Ryuto Masui (M2, ICBiotech, The University of Osaka)
Genes affecting lipid composition change in oleaginous yeast
- 14:40-15:00 Mr. Bhismo Srenggoro Kuntunugroho (D2, ICBiotech, The University of Osaka)
Adaptive laboratory evolution of oleaginous yeast *Rhodotorula toruloides*
NBRC 0880: Crude glycerol utilizing-mutants
- 15:00-15:20 Mr. Johnry Sumague Maloles (D2, ICBiotech, The University of Osaka)
Rhodotorula toruloides UV-Induced Mutants with Improved Lipid Productivity in
Pectin Hydrolysate
- 15:20-15:35 **BREAK**

FERMENTATION

- 15:35-15:55 Mr. Kim Min Sung (D3, ICBiotech, The University of Osaka)
Optimization of the culture medium for an iron-sensitive oleaginous yeast,
Rhodotorula toruloides NBRC 0559, through functional iron deficiency
- 15:55-16:25 Dr. Hiroyuki Kajiura (ICBiotech, The University of Osaka)
Energy conversion from industrial waste to lipid by Red yeast
- 16:25-16:55 Dr. Irene G. Pajares (National Institute of Molecular Biology and Biotechnology,
University of the Philippines Los Baños, Philippines)
Exploring Native Oleaginous Red Yeast from the Philippines for Sustainable
Biodiesel and Bioproducts Production
- 16:55-17:25 Dr. Benjamas Cheirsilp (Center of Excellence in Innovative Biotechnology for
Sustainable Utilization of Bioresources, Prince of Songkla University, Thailand)
Potential Use of Industrial Wastes for Low-cost Production of Biodiesel
Feedstocks by Red Yeast *Rhodotorula mucilaginosa*
- 17:25-17:30 Closing remarks
- Dr. Kazuhito Fujiyama (ICBiotech, The University of Osaka)

Organized by;

International Center for Biotechnology (ICBiotech),
The University of Osaka

Industrial Biotechnology Initiative Division,
Institute for Open and Transdisciplinary Research Initiatives (OTRI),
The University of Osaka