

September, 13th (Fri)

Presentation (Sub Hall)

9:00 ~ 11:30 Energy and Material Recycle by Marine Biotechnology

**Sponsored by Malcom Co., Ltd.,
Advanced Core for Energetics, Hiroshima University,
Institute of Global Innovation Research,
Tokyo University of Agriculture & Technology**

[Chairs] Wei Zhang (Flinders University)
Yutaka Nakashimada (Hiroshima University)
Tsuyoshi Tanaka (Tokyo University of Agriculture Technology)

[Speakers]

013-1 René H. Wijffels (Wageningen University, AlgaePARC, Bioprocess Engineering, PO Box 16, 6700 AA Wageningen, the Netherlands)

“Towards industrial production of microalgae”

013-2 Wei Zhang (Centre for Marine Bioproducts Development, College of Medicine and Public Health, Flinders University)

“Biorefinery of lobster processing co-products for a comprehensive recovery of multiple functional products”

013-3 David Kisailus (Materials Science and Engineering, University of California at Riverside, USA/
Department of Chemical and Environmental Engineering, University of California at Riverside, USA)

“Biological Synthesis and Mechanics of Ecologically Diverse Ultrahard Teeth of Chitons”

013-4 Tomoo Sawabe (Laboratory of Microbiology, Hokkaido University, Japan)

“Hydrogen Production of Marine Vibrios: Recent Progress”

013-5 Kanji Hori (Graduate School of Integrated Sciences of Life, Hiroshima University, Japan)

“Potential of algal lectins as functional materials”

013-6 IAGO TELES (Bergen University, Department of Biology, Norway)

“AlgaePARC Bonaire: Algal biotechnology meets aquaculture in the Caribbean”

013-7 Tomomi Nonoyama (Division of Biotechnology and Life Science, Institute of Engineering, Tokyo University of Agriculture and Technology/Electric Power Development CO, Ltd./
Institute de Biologie de l'École Normale Supérieure, École Normale Supérieure)

“Analysis of lipid droplet dynamics in oleaginous diatom *Fistulifera solaris*”

013-8 Tsunehiro Aki (Hiroshima University)

“Gas-to-lipids bioprocessing by acetogens and thraustochytrids”

Presentation (Conference Room)

9:00 ~ 11:30 **Innovative approach to sustainable aquaculture and fisheries II : New trends of feed nutrients and pre/probiotics for sustainable aquaculture**

Sponsored by Japan Science and Technology Agency

[Chairs] Katsutoshi Hori (Nagoya University)
Jun Ogawa (Div. Appl. Life Sci., Grad. Sch. Agric., Kyoto University)

[Speakers]

- 014-1** Yutaro Shimokawa (National Fisheries University)
“Nutritional supplementation and enhanced antioxidant function by dietary intake of selenoneine and other selenium compounds in red seabream”
- 014-2** Allen Place (Institute of Marine and Environmental Technology, University of Maryland Center for Environmental Science)
“Gluten-free Fish? Five Hour Energy Supplements? Marine Carnivores Cobia (*Rachycentron canadum*) and European Sea Bass (*Dicentrarchus labrax*) Have Different Tolerances to Dietary Wheat Gluten and Taurine Requirements”
- 014-3** Jun Ogawa (Div. Appl. Life Sci., Grad. Sch. Agric., Kyoto University)
“Development of resources-recycling aquaculture feeds inspired from features of the ecosystem”
- 014-4** Douglas Redford Tocher (Institute of Aquaculture, Faculty of Natural Sciences, University of Stirling, Stirling, Scotland, UK)
“Engineering *Camelina sativa* as a novel de novo source of marine omega-3 long-chain polyunsaturated fatty acids”
- 014-5** Sage Chaiyapechara (National Center for Genetic Engineering and Biotechnology, National Science and Technology Development Agency)
“Toward understanding the relationship between gut and rearing water microbiota in shrimp aquaculture”
- 014-6** Katsutoshi Hori (Nagoya University)
“Analysis of epidermal bacterial flora of fish: Basic knowledge for probiotics”
- 014-7** Nyan Taw (Sr Advisor, Myanmar Fisheries Federation (MFF), Former CTA for FAO of the UN and Consultant for World Bank Projects; Sr Advisor, Blue Archipelago, Malaysia, Sr VP/VP Dipasena/CPB Indonesia)
“Shrimp Farming Systems using Biofloc and RAS Technologies for Sustainable Production”

Presentation (Training Room)

9:00 ~ 11:30 **Marine Symbiosis & Marine Ecology**

Sponsored by Japan Society for the Promotion of Science

[Chairs] Sandie Degan (University of Queensland)
Shigeru Okada (The University of Tokyo)

[Speakers]

- 015-1** Sandie M Degnan (University of Queensland)
“Ecogenomics of a coral reef sponge-bacterial symbiosis”
- 015-2** Masanori Toyofuku (University of Tsukuba, Faculty of Life and Environmental Sciences, Japan/
University of Tsukuba, Microbiology Research Center for Sustainability (MiCS),
Japan)
“How do bacteria "really" communicate?”
- 015-3** Keisuke Motone (Graduate School of Agriculture, Kyoto University/Japan Society for the Promotion of
Science)
**“Antioxidant-producing bacteria confer stress tolerance to coral
endosymbionts”**
- 015-4** Daniel Fucich (Institute of Marine and Environmental Technology, University of Maryland Center for
Environmental Science, Baltimore MD, USA)
**“Toxin antitoxin systems allow Chesapeake Bay Synechococcus to survive
highly variable environments”**
- 015-5** Shigekatsu Suzuki (National Institute for Environmental Studies)
**“Survival of a red tide-forming dinoflagellate depends on certain
metabolites supplied by co-cultured bacteria”**
- 015-6** Zhenghong Sui (Key Laboratory of Marine Genetics and Breeding (Ocean University of China), Ministry
of Education, China)
**“Elucidation of molecular mechanism of explosive growth of *Alexandrium
pacificum* based on transcriptome and epigenetic analysis”**
- 015-7** Lauren Elise Jonas (Institute of Marine and Environmental Technology/University of Maryland Center
for Environmental Science)
“Sponge Symbionts and Phosphorus Cycling in Coral Reefs”

■ Luncheon Seminars

September, 10th (Tue), 12:00 ~ 13:00

Luncheon Seminar 1

Conference Room

Sponsored by Krill Association

Current research and market analysis of the worldwide-spreading and evolving omega-3 krill oil products (Japanese Presentation)

[Speakers]

Kazunaga Yazawa

Introduction of Krill Association

Masahiro Kurono

Krill Oil for Joint Health as “Foods with Function Claims” in Japan

Tatsuya Katagiri

Anti-obesity effect of Japanese Krill oil “ISADA OIL” and its active ingredient, 8-HEPE

Masaji Yamamoto

Sleep improvement action by krill oil extracted from Sanriku Isada

Luncheon Seminar 2

Training Room

Sponsored by The 140th Founding Anniversary Fund of the Graduate School of Agricultural and Life Science

**International Young Researchers
Calling All Young Researchers: It is time to make a move!**

[Chair] Tetsushi Mori (Tokyo University of Science and Technology, Japan; Young Researchers Association of the Japanese Society for Marine Biotechnology)

[Speaker]

Yonathan Zohar (Department of Marine Biotechnology and Director, Aquaculture Research Center, Institute of Marine and Environmental Technology, University of Maryland, USA)

September, 11th (Wed), 12:00 ~ 13:00

Luncheon Seminar 3

Conference Room

Sponsored by Yaizu Suisankagaku Industry Co., Ltd.

Marine Vitamin and Preventive Medicine

【Chair】 Daiki Kubomura (Yaizu Suisankagaku Industry Co., Ltd.)

【Speakers】

Kazunaga Yazawa (Waseda University)

Daiki Kubomura (Yaizu Suisankagaku Industry Co., Ltd.)

Luncheon Seminar 4

Training Room

Sponsored by Shimadzu Corporation

Shimadzu Luncheon Seminar for MBC2019

【Chair】 Takuya Mori (Analytical & Measuring Instruments Division, Shimadzu Corporation)

【Speakers】

Kanae Teramoto (Koichi Tanaka Mass Spectrometry Research Laboratory, Shimadzu Corporation)

Analysis of marine bacteria by MALDI-MS

Shinji Funatsu (MS Business Unit, Life Science Business Department, Analytical & Measuring Instruments Division, Shimadzu Corporation)

Statistical Analysis Software: eMSTAT Solution

September, 12th (Thu), 12:00 ~ 13:00

Luncheon Seminar 5

Conference Room

Sponsored by Marine Industry Cluster Council of Shizuoka City

【Chair】 David Rinehart (City of Shizuoka)

【Speaker】

Keisuke Mizuno (Marine Industry Cluster Council of Shizuoka City)

Ecological Research Project on Sakura Shrimp(*Serginia lucens*) in Suruga Bay by MICCS(Marine Industry Cluster Council of Shizuoka City)

Luncheon Seminar 6

Training Room

Sponsored by OriCiro Genomics, Inc. and bitBiome, Inc.

【Speakers】

Masahito Hosokawa (bitBiome, Inc.)

Single-cell resolution analysis of marine microbiome

Masayuki Suetsugu (OriCiro Genomics)

Cell-free assembly and amplification of genome-scale DNA