

7th Bilateral Seminar

Italy-Japan



Physical and chemical impacts on marine organisms:
emerging hazards and strategies for saving the oceans

Programme

Minamiboso, Japan

29 November – 2 December 2016

<http://www.cf.ocha.ac.jp/marine/news/bsij7.html>

BSIJ 2016 ORGANIZATION

Scientific Organizers

Masato Kiyomoto

(JSPS Scientific Referent, JAPAN)

Ochanomizu University

Tateyama Marine Laboratory, Marine and Coastal Research Center

Tateyama, JAPAN

Francesca Zito

(CNR Scientific Referent, ITALY)

National Research Council

Institute of Biomedicine and Molecular Immunology "A. Monroy"

Palermo, Italy

Honorary Organizer

Yukio Yokota

Aichi Prefectural University

Nagakute, Japan

Supporters

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November 29th, 2016

Evening Registration
Welcome to the 7th BSIJ National Experts

November 30th, 2016

- 9:00 Opening Remarks**
Welcome of the Organizers
Masato Kiyomoto & Francesca Zito
Foreword Talk
Yukio Yokota
- 9:20 Opening lecture**
Francesco Regoli (Università Politecnica delle Marche, Ancona, Italy)
Emerging pollutants and new challenges for marine ecotoxicology
- Session 1**
Multidisciplinary approaches to evaluate the effects caused by emerging pollutants on marine organisms
Chairs: Keita Kodama & Francesco Regoli
- 10:00 Keita Kodama** (National Institute for Environmental Studies, Tsukuba, Japan)
*Effect of hypoxia and hydrogen sulfide on the survival of manila clam *Ruditapes philippinarum* during the early life stages*
- 10:30 Coffee break**
- 10:40 Natusmi Hosoya** (Otsuma Women's University, Tama, Japan)
Effect of postharvest fungicides on the early development of echinoderm eggs and the proliferation of protists
- 11:10 Annalisa Pinsino** (Istitute of Biomedicine and Molecular Immunology "A. Monroy", CNR, Palermo, Italy)
Probing safety of nanoparticles by outlining sea urchin signalling pathways.
- 11:40 Mari Ochiai** (Ehime University, Matsuyama, Japan)
In vitro cytotoxicity assessment of environmental pollutants on finless porpoise fibroblasts
- 12:10 Lunch** (Sea side area in Tateyama)
- Session 2**
Model organisms to assess stress response to environmental impacts

Chairs: Koji Mikami & Marco Faimali

- 15:00** **Marco Faimali** (Institute of Marine Sciences, CNR, Genoa, Italy)
Gelatinous zooplankton as a model in marine ecotoxicology
- 15:30** **Koji Mikami** (Hokkaido University, Hakodate, Japan)
Is “stress memory” responsible for acquired heat tolerance present in red seaweeds?
- 16:00** **S. Bijoy Nandan** (Cochin University of Science & Technology, Cochin, India)
Toxicity effects of Zinc on two marine diatoms, under varying macronutrient environment
- 16:30** **Francesca Zito** (Istitute of Biomedicine and Molecular Immunology “A. Monroy”, CNR, Palermo, Italy)
A successful animal model to sense the marine environment: the sea urchin

December 1st, 2016

Session 3

Field surveys and current impact of emerging hazards on marine organisms

Chairs: Toshihiro Horiguchi & Francesca Garaventa

- 9:30** **Toshihiro Horiguchi** (National Institute for Environmental Studies, Tsukuba, Japan)
Decline in intertidal biota after the 2011 Great East Japan Earthquake and Tsunami and the Fukushima nuclear disaster
- 10:00** **Francesca Garaventa** (Institute of Marine Sciences, CNR, Venice, Italy)
Microplastics in sea water: preliminary ecotoxicological and field-monitoring evaluation.
- 10:30** **Coffee break**
- 10:40** **Kei Nomiyama** (Ehime University, Matsuyama, Japan)
Pilot study of comprehensive analysis for persistent organohalogen compounds in finless porpoises from Seto Inland Sea
- 11:10** **Satoshi Shimada** (Ochanomizu University, Tokyo, Japan)
Macroalgal Phylogeography in Japan -historical processes, genetic property and the effect of environmental parameters on the survive
- 12:00** **Lunch**

Session 4

Sustainable use of marine resources and innovative applications in biotechnology

Chairs: Hajime Watanabe & Adriana Ianora

- 13:30** **Hajime Watanabe** (Osaka University, Suita, Japan)
Development of gene edited daphnia visualizing heavy metals contaminants in water
- 14:00** **Adriana Ianora** (Stazione Zoologica A. Dohrn, Naples, Italy)
Marine biotechnology: use of marine organisms as sources of pharmaceuticals and other biologically active compounds
- 14:30** **S. Bijoy Nandan** (Cochin University of Science & Technology, Cochin, India)
*Chronic effects of Copper and Zinc on the fish, *Etroplus suratensis* (Bloch, 1790) by Continuous Flow Through (CFT) bioassay*
- 15:00** **Coffee break**
- 15:10** **Masato Kiyomoto** (Tateyama Marine Laboratory, Marine and Coastal Research Center, Ochanomizu University, Tateyama, Japan)
*Development and genetic similarity in the inbreeding sea urchin *Hemicentrotus pulcherrimus* for the ecotoxicological bioassay material*
- In memory of Valeria Matranga (1954-2016)**
- 15:40** **Y. Yokota** (Aichi Prefectural University, Nagakute, Japan)
Friendship and scientific collaboration for more than 30 years
- 16:10** **Mauro Biondo** (Istitute of Biomedicine and Molecular Immunology “A. Monroy”, CNR, Palermo, Italy)
A tribute video commemorating the life and career of a researcher with a deep love for her work.
- 16:40** **General discussion**
Environmental and marine life in the future - strategies for saving the oceans
- 18:30** **Social Dinner**

December 2nd, 2016

Excursion