

# ■ Program

Wednesday, December 16

Room A Symposium I

9:00~12:00

■ Marine genomics : Comparative genomics and evolution

SI-1

**Speciation by Sensory Drive in Cichlid fish**

Norihiro Okada

(Tokyo Institute of Technology, Faculty of Bioscience and Biotechnology)

SI-2

**The Hydra genome and the evolution of multicellularity**

Charles N. David

(Ludwig-Maximilians-University)

SI-3

**MARINE GENOMICS AND THE EVOLUTION OF ISOCHORES**

Giorgio Bernardi

(Laboratory of Molecular Evolution, Stazione Zoologica Anton Dohrn,)

Room A Open Symposium

15:00~17:00

■ The Prospective of Marine Genomics in OKINAWA

Room B Workshop 1

13:00~14:45

■ Comparative biology

WS1-1

**Molecular Identification and Characterization of Nematocyst Components in Cnidaria**

Jung Shan Hwang

(National Institute of Genetics, Mishima, Japan)

WS1-2

**Searching for traces of the central nervous system in sea urchin by next-generation sequencing**

Sonoko Kinjo

(National Institute of Genetics)

WS1-3

**Search for the evolutionary origin of gap junction**

Yasuharu Takaku

(Center for Information Biology-DNA Data Bank of Japan, National Institute of Genetics, Mishima 411-8540, Japan)

WS1-4

**The ocelloid of *Erythrospidinium* (Warnowiaceae) is a camera-type eye of endosymbiotic origin**

Shiho Hayakawa,

(CIB-DDBJ, National Institute of Genetics, Mishima, Japan)

<b>Room C</b>	<b>Workshop 2</b>	<b>13:00~14:45</b>
■ <b>Environmental genomics</b>		

**WS2-1** Does metabolism affect DNA properties and gene features? What we can learn from fish  
 Ankita Chaurasia  
 (Stazione Zoologica A. Dohrn)

**WS2-2** Unveiling microbial diversity of uncultured environmental microbe mixtures and protein functions of metagenome sequences using Batch Learning Self-Organizing Map (BLSOM)  
 Takashi Abe  
 (Nagahama Institute of Bio-Science and Technology)

**WS2-3** The ocean is a treasury of strange viruses  
 Keizo Nagasaki  
 (Fisheries Research Agency, JAPAN)

**WS2-4** Genetic methods using the *Tol2* transposable element in zebrafish  
 Koichi Kawakami  
 (Division of Molecular and Developmental Biology National Institute of Genetics)

<b>Room D</b>	<b>Poster Exhibition</b>	<b>9:00~17:00</b>
	<b>Poster Presentation</b>	<b>17:00~18:00</b>

<b>Room A</b>	<b>Reception</b>	<b>18:00~20:00</b>
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# ■ Program

Thursday, December 17

Room A Symposium II

9:00~12:00

■ Marine genomics : Fishery resources and biotechnology

**S II-1**      **Comprehensive analysis of torafugu *Takifugu rubripes* myosin heavy chain genes and their expression patterns during muscle differentiation and growth in relation to fish lineage**

Shugo Watabe

(Department of Aquatic Bioscience, Graduate School of Agriculture and Life Sciences, The University of Tokyo Japan)

**S II-2**      **Recent progresses in aqua-genome studies in China**

Zhang Quanqi

(Key Laboratory of Marine Genetics and Breeding, Ministry of Education, College of Marine Life Science, Ocean University of China, PR China)

**S II-3**      **Bridging Chromosome Manipulation and Genomics in Aquaculture-oriented Species**

Katsutoshi Arai

(Faculty of Fisheries Sciences, Hokkaido University,)

**S II-4**      **Ecology and genomics of aquatic viruses**

Keizo Nagasaki

(Fisheries Research Agency)

**S II-5**      **Current progress of artificial seed production techniques and perspective on genetic improvement of the Japanese eel *Anguilla japonica***

Kazuharu Nomura

(National Research Institute of Aquaculture)

**S II-6**      **Current status and future directions of the Pacific bluefin tuna *Thunnus orientalis* genome analysis in Japan**

Takuma Sugaya

(National Research Institute of Fisheries Science, Fisheries Research Agency)

**S II-7**      **A Role of Selenium against Methylmercury Toxicity**

Michiaki Yamashita

(National Research Institute of Fisheries Science)

Room B Workshop 3

13:00~14:45

■ Genomics

**WS3-1 The application of the MLE sequences as the “Migration Trace Indicator” among the different population of the same species.**

Yumiko Nakajima

(Functional Genomics Group, COMB, Tropical Biosphere Research Center, University of the Ryukyus)

**WS3-2 Chromosomal map of organ-enriched genes and regulatory genes reveals a dispersed pattern of small gene-clusters in the ascidian *Ciona intestinalis***

Eiichi Shoguchi

(Okinawa Institute of Science and Technology (OIST))

**WS3-3 Genomics and Evolutionary Developmental Biology of Hagfishes**

Kinya G. Ota

(Laboratory for Evolutionary Morphology, Center for Developmental Biology, RIKEN Kobe)

**WS3-4 Comparative genome analysis of the major histocompatibility complex regions elucidated by genomic sequencing of the false killer whale (*Pseudorca crassidens*)**

Takashi Shiina

(Department of Molecular Life Science, Division of Basic Medical Science and Molecular Medicine, Tokai University School of Medicine)

Room B Workshop 4

15:15~17:00

■ Phylogenetic and evolution

**WS4-1 Speciation on coral reefs: vicariance and dispersal in the three-spot dascyllus, *Dascyllus trimaculatus*, species complex**

Giacomo Bernardi

(University of California Santa Cruz)

**WS4-2 Sampling and Analyzing of Meiobenthos in the Deep-Sea Floor**

Hidemi Watanabe

(Department of Information Science and Technology, Hokkaido University, Japan)

**WS4-3 An evolutionary Origin and Selection Process of Goldfish**

Tomoyoshi Komiyama

(Tokai University School of Medicine)

**WS4-4 Molecular Evolution of Vertebrate Camera Eye**

Chi Chiu Wang

(DNA Data Analysis, National Institute of Genetics, Mishima, Japan)

**Room C**    **Workshop 5**    13:00~14:45

■ **Bioinformatics (including database)**

**WS5-1**    **The Ancestral Bias Graph: GC Biased Gene Conversion and Biased Migration**

Shuheï Mano

(Graduate School of Natural Sciences, Nagoya City University)

**WS5-2**    **FABA2 : A web-based interactive developmental table for the ascidian from hatching larva to juvenile**

Kohji Hotta

(Keio University)

**WS5-3**    **Evolution and Functional Divergence of the Neural Cell Adhesion Molecules from the viewpoint of Planarians**

Katsuhiko Mineta

(IST, Hokkaido University)

**WS5-4**    **CIPRO: *Ciona intestinalis* protein database equipped with intuitive graphical panels of protein information**

Toshinori Endo

(Hokkaido University)

**Room C**    **Workshop 6**    15:15~17:00

■ **Immunology**

**WS6-1**    **Genomic View of the Origin and Evolution of the Complement System**

Masaru Nonaka

(Graduate School of Science, The University of Tokyo)

**WS6-2**    **Extreme multiplicity of Toll-like receptors in sea urchin genome**

Taku Hibino

(Faculty of Education, Saitama University)

**WS6-3**    **The lipopolysaccharide-activated innate immune response network of the horseshoe crab**

Shun-ichiro Kawabata

(Department of Biology, Faculty of Sciences, Kyushu University)

**Room D**    **Poster Exhibition**    9:00~17:00

**Poster Presentation**    17:00~18:00

# ■ Program

Friday, December 18

Room A Symposium III

9:00~12:00

■ Marine genomics : Evo-Devo

**SIII-1 Genomics of Animal Origins and Diversity**

Daniel N. Rokhsar  
(UC Berkeley)

**SIII-2 Genetic cascade underlying the formation of notochord in urochordate embryos**

Nori Satoh  
(Marine Genomics Unit, OIST)

**SIII-3 Domain shuffling and the evolution of vertebrates**

Hiroshi Wada  
(University of Tsukuba)

**SIII-4 Evolution of bivalve bodyplan**

Yoshihisa Kurita  
(University of Tsukuba)

**SIII-5 Development of the Nervous System in the Acorn Worm *Balanoglossus simodensis***

Norio Miyamoto  
(Life and Environmental Sciences, University of Tsukuba)

**SIII-6 Decoding *cis*-Regulatory Systems of Cell Type-Specific Genes in the Tunicate Genome**

Takehiro G. Kusakabe  
(Department of Biology, Faculty of Science and Engineering, Konan University)

Room A Workshop 7

13:00~15:00

■ Symbiosis

**WS7-1 Genomes of chemosynthetic symbionts in deep-sea *Calyptogena* clams**

Tadashi Maruyama  
(Marine Biodiversity Research Program, Inst. BioGeoscience, GODAC, JAMSTEC)

**WS7-2 Metagenome analysis of bacteria associated with marine sponges.**

Yoshiko Okamura  
(Department of Life Science & Medical Bio-Science, School of Advanced Science and Engineering, Waseda University)

WS7-3

**The coral *Acropora digitifera* genome project**

Chuya Shinzato

(Okinawa Institute of Science and Technology (OIST))

WS7-4

**Profiling differential gene expression of symbiotic and aposymbiotic corals using a high coverage gene expression profiling (HiCEP) analysis**

Ikuko Yuyama

(Faculty of Science, Chemistry, Biology and Marine Science Department, University of the Ryukyus.)

WS7-5

**Possible role of a secondary metabolite of the cyanobacterium *Nostoc punctiforme* in symbiosis formation**

Holger Junke-Kodama

(Okinawa Institute of Science and Technology)

Room A

Closing Ceremony

15:00~15:30

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