

Program of Harmful Organisms 2019

| Date/Time | | Day1 | Day2 | | | | Day3 | | | | Day4 | |
|-----------|-------|----------------|---|--------------------------------------|---------------------|---------------------|------------------------------------|--------------------------------------|-----------------------------------|---------------------------|-------------------------------------|---|
| | | April 24 (WED) | April 25 (THU) | | | | April 26 (FRI) | | | | April 27 (SAT) | |
| | | | Hall_C | Hall_B | Meeting_6 | Meeting_8 | Hall_C | Hall_B | Meeting_6 | Meeting_8 | | |
| 8 | 30~60 | Registration | Registration | | | | Registration | | | | | |
| 9 | 00~30 | | | | | | Poster Presentation B | | | | Field trip (Ocean Cluster _Yeongdo) | |
| | 30~60 | | Opening Ceremony & Celebratory Photo | | | | Plenary 2 | | | | | |
| 10 | 00~30 | | Plenary1 | | | | Coffee Break | | | | | Visit to Korea National Maritime Museum |
| | 30~60 | | Coffee Break | | | | | | | | | |
| 11 | 00~30 | | Symposium Session 1 | Poster | Symposium Session 2 | Symposium Session 4 | Symposium Session 1 | Poster | Symposium Session 6 | Special Session_SCI paper | | |
| | 30~60 | | | | | | | | | | | |
| 12 | 00~30 | | | | | | | | | | | |
| | 30~60 | | | | | | | | | | | |
| 13 | 00~60 | | | Lunch | | | | | | | | |
| 14 | 00~30 | | | Plenary 3 | | | | | | | | |
| | 30~60 | | Symposium Session 1 | Poster | Symposium Session 3 | Symposium Session 8 | Session 10_B Environmental Biology | Poster | Session 10_A Endocrine Disruptors | Symposium Session 9 | | |
| 15 | 00~30 | | | Coffee Break / Poster Presentation A | | | | Coffee Break / Poster Presentation C | | | | |
| | 30~60 | | | | | | | | | | | |
| 16 | 00~30 | | | | | | Session 10_B Environmental Biology | Poster | Session 10_A Endocrine Disruptors | Symposium Session 9 | | |
| | 30~60 | | Symposium Session 1 | Poster | Symposium Session 5 | Symposium Session 8 | | | | | | |
| 17 | 00~30 | | | Special Session_SCI paper | | | | | | | | |
| | 30~60 | | | Closing Ceremony & Awards | | | | | | | | |
| 18 | 00~30 | | Precongress: Recent Progress in Harmful Organism Research | | | | | | | | | |
| | 30~60 | | Preparation of Banquet (Hall_A) | | | | | | | | | |
| 19 | 00~60 | | | | | | | | | | | |

Plenary

Date & Time : 25 Thu 10:00 - 10:30

Room : Hall C

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|---------------|-----------|---|
| 10:00 - 10:30 | Plenary_1 | The occurrence mechanism of fish-killing red tides of <i>Chattonella</i> (Raphidophyceae) and successful trial of environment-friendly prevention strategies using diatoms Ichiro Imai (Hokkaido University, Japan) |
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Date & Time : 26 Fri 09:30 - 10:00

Room : Hall C

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| 09:30 - 10:00 | Plenary_2 | A new horizon of cyanobacterial bloom control and its biomass utilization Hee-Mock Oh (Korea Research Institute of Bioscience & Biotechnology, Korea) |
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Date & Time : 26 Fri 14:00 - 14:30

Room : Hall C

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| 14:00 - 14:30 | Plenary_3 | Harmful jellyfish blooms in the East Asian Seas: Is our ocean more gelatinous? Shin-ichi Uye (Graduate School of Biosphere Science, Hiroshima University, Japan) |
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Session 1

The physiological, biochemical, genetic and behavioral features of harmful algae

Date & Time : 25 Thu 11:00 - 13:00

Room : Hall C

Chair : Dr. Hee-Mock Oh

Korea Research Institute of Bioscience & Biotechnology, Korea

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| 11:00 – 11:30 | OS_1_01 | Physiological and toxicity changes in the invasive cyanobacterium <i>Cylindrospermopsis raciborskii</i> in response to nitrogen fluctuation Renhui Li (Institute of Hydrobiology, China)_Invited speaker |
| 11:30 – 12:00 | OS_1_02 | Linkage between zebra mussel establishment, cyanobacteria community composition and microcystin levels in the United States lakes Jiyoung Lee (The Ohio State University, USA)_Invited speaker |
| 12:00 – 12:20 | OS_1_03 | The inhibition and development of harmful alga <i>Cochlodinium polykrioides</i> bloom related with Changjiang River discharge in Korean coastal waters Seung Ho Baek (Korea Institute of Ocean Science & Technology, Korea) |
| 12:20 – 12:40 | OS_1_04 | Microbial interactions during <i>Cochlodinium polykrioides</i> bloom in South Sea, Korea Chi-Yong Ahn (Korea Research Institute of Bioscience and Biotechnology, Korea) |
| 12:40 – 13:00 | OS_1_05 | Early warning of <i>Cochlodinium polykrioides</i> (Dinophyceae) blooms in the South Sea, Korea using real-time PCR Tae Gyu Park (National Institute of Fisheries Science, Korea) |

Chair : Prof. Ichiro Imai

Hokkaido National University, Japan

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| 14:00 – 14:30 | OS_1_06 | Toxic HAB species from the Sea of Okhotsk detected by a metagenetic approach Satoshi Nagai (National Research Institute of Fisheries Science, Japan)_Invited speaker |
| 14:30 – 14:50 | OS_1_07 | Phytoplankton pigments patterns and environmental factors variations during harmful algal bloom in South-western coast, Korea Moonho Son (National Institute of Fisheries Science, Korea) |
| 14:50 – 15:10 | OS_1_08 | Mating rate and occasion as a sexual reproductive strategy according to growth phase of parent cells of pennate diatom <i>Pseudo-nitzschia pungens</i> Jin Ho Kim (Korea Institute of Ocean Science & Technology, Korea) |
| 15:10 – 15:30 | OS_1_09 | Spatio-temporal shifts of microbial communities and their co-occurrence patterns in a dynamic coastal ecosystem Yingshun Cui (Korea Research Institute of Bioscience & Biotechnology, Korea) |

Chair : Dr. Chi-Yong Ahn

Korea Research Institute of Bioscience & Biotechnology, Korea

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| 16:00 – 16:30 | OS_1_10 | Homogenizing co-dispersal resulting in an uniform distribution of antibiotic resistance genes in two nearby sub-watersheds, China Anyi Hu (Institute of Urban Environment, China)_Invited speaker |
| 16:30 – 17:00 | OS_1_11 | Taxonomy, composition, distribution pattern and toxicity of <i>Prorocentrum</i> (Dinophyceae) in the coastal water of China Pengbin Wang (Ministry of Natural Resources, China)_Invited speaker |
| 17:00 – 17:20 | OS_1_12 | Invasion of exotic nostocalean cyanobacteria and their toxin production potential in the Nakdong River, Korea Hae-Kyung Park (Nakdong River Environment Research Center, Korea) |
| 17:20 – 17:40 | OS_1_13 | Field application of biologically derived substances (BDSs: naphthoquinone derivative) for eco-friendly mitigation of harmful cyanobacterial blooms Jae-Hyoung Joo (Hanyang University, Korea) |
| 17:40 – 18:00 | OS_1_14 | Interactions of the harmful dinoflagellate <i>Cochlodinium polykrikoides</i> and <i>Alexandrium</i> sp.: physiological and genomics responses Jang-Seu Ki (Sangmyung University, Korea) |

Date & Time : 26 Fri 10:30 - 13:00

Room : Hall C

Chair : Dr. Seung Ho Baek

Korea Institute of Ocean Science & Technology, Korea

Chair : Dr. Satoshi Nagai

National Research Institute of Fisheries Science, Japan

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| 10:30 – 11:00 | OS_1_15 | Environment-friendly prevention strategies for harmful algal blooms using algicidal bacteria associated with seaweeds and seagrasses Ichiro Imai (Hokkaido University, Japan)_Invited speaker |
| 11:00 – 11:20 | OS_1_16 | Genetic relatedness of a new Japanese isolates of <i>Alexandrium ostenfeldii</i> bloom population with global isolates Sirje Sildever (National Research Institute of Fisheries Science, Japan) |
| 11:20 – 11:40 | OS_1_17 | Remote sensing monitoring of <i>Margalefidinium polykrikoides</i> blooms in the South Sea of Korea Jisun Shin (Korea Institute of Ocean Science & Technology, Korea) |
| 11:40 – 12:00 | OS_1_18 | Using network analysis to explore dynamics of <i>Microcystis</i> genotypes and other microbial community during cyanoHABs Seong-Jun Chun (Korea Research Institute of Bioscience & Biotechnology, Korea) |
| 12:00 – 12:20 | OS_1_19 | Population development strategy of two dinoflagellates <i>Cochlodinium polykrikoides</i> and <i>Alexandrium affine</i> during the summer in the coastal environments of the southern sea of Korea Young Kyun Lim (Korea Institute of Ocean Science & Technology, Korea) |
| 12:20 – 12:40 | OS_1_20 | Potential role of oil-degrading bacteria in the formation of a harmful dinoflagellate bloom after the Texas City "Y" Oil Spill: evidence from culture experiments Bum Soo Park (University of Texas Marine Science Institute, USA) |
| 12:40 – 13:00 | OS_1_21 | Transcriptomic responses to nutrient (N, P) and light limitation in pelagophytes Yoonja Kang (Gwangju Institute of Science and Technology, Korea) |

Session 2

Current status and future research direction of drifting macro-algal blooms

Date & Time : 25 Thu 11:00 – 13:00

Room : Meeting 6

Chair : Prof. Hyuk Je Lee
Sangji University, Korea

Chair : Prof. Sang Rul Park
Jeju National University, Korea

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| 11:00 – 11:10 | | Introductory remarks (Prof. Hyuk Je Lee) |
| 11:10 – 11:30 | OS_2_01 | <i>Sargassum homeri</i> golden tide on the rise in Korea: current status and management strategies Sangil Kim (National Institute of Fisheries Science, Korea) |
| 11:30 – 11:50 | OS_2_02 | Current status of macroalgal bloom (golden tides and green tides) in Korea: the magnitude, formation, transport and management Sang Rul Park (Jeju National University, Korea) |
| 11:50 – 12:10 | OS_2_03 | 'Golden tide' seaweeds <i>Sargassum homeri</i> in Korean waters: the origin and genetic/genomic comparisons between floating and benthic populations Hyuk Je Lee (Sangji University, Korea) |
| 12:10 – 12:30 | OS_2_04 | Species diversity of green tide forming macroalgae <i>Ulva</i> species in Jeju Island, Korea using DNA-based species delimitation approaches Ji Hyoun Kang (Korea University, Korea) |
| 12:30 – 12:50 | OS_2_05 | Satellite monitoring of green and golden-tide in the eastern Yellow Sea Keunyong Kim (Korea Institute of Ocean Science & Technology, Korea) |
| 12:50 – 13:00 | | Closing remarks (Prof. Sang Rul Park) |

Session 3

Jellyfish blooms in the East Asian Seas

Date & Time : 25 Thu 14:00 – 15:40

Room : Meeting 6

Chair : Dr. Wonduk Yoon

Human & Marine Ecosystem Research Laboratory, Korea

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| 14:00 – 14:20 | OS_3_01 | Distribution of polyps of <i>Aurelia coerulea</i>. a compelling evidence of anthropogenic causation of the jellyfish blooms Jinho Chae (Marine Environmental Research and Information Laboratory, Korea) |
| 14:20 – 14:40 | OS_3_02 | Genetic structure and diversity of the jellyfish <i>Aurelia coerulea</i> in Korean coastal waters Jang-Seu Ki (Sangmyung University, Korea) |
| 14:40 – 15:00 | OS_3_03 | Comparison of density estimates between scientific echosounder and acoustic camera system for moon jellyfish (<i>Aurelia coerulea</i>) Inwoo Han (Chonnam National University, Korea) |
| 15:00 – 15:20 | OS_3_04 | Proteomic approach to examine the cardio toxic effects in H9c2 cells and component identification of <i>Nemopilema nomurai</i> venom (NnV) Ramachandran Loganathan Mohan Prakash (Gyeongsang National University, Korea) |
| 15:20– 15:40 | OS_3_05 | Discovery of anti-cancer effect from <i>Nemopilema nomurai</i> jellyfish venom on HepG2 cells and tumor xenograft animal model Euikyung Kim (Gyeongsang National University, Korea) |

Session 4

Entomological research on harmful organisms in agriculture and vector-borne disease

Date & Time : 25 Thu 11:00 - 13:30

Room : Meeting 8

Chair : Dr. Doo-Hyung Lee
Gachon University, Korea

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| 11:00 – 11:10 | | Introductory remark |
| 11:10 – 11:40 | OS_4_01 | The bean bug <i>Riptortus pedestris</i> and its <i>Burkholderia</i> symbiont Yoshitomo Kikuchi (AIST, Japan)_Invited speaker |
| 11:40 – 12:00 | OS_4_02 | Abundance and diversity of gut-symbiotic Bacteria, the genus <i>Burkholderia</i> in overwintering <i>Riptortus pedestris</i> populations and soil in South Korea Minhyung Jung (Gachon University, Korea) |
| 12:00 – 12:20 | OS_4_03 | Investigating different patterns of plant virus spread respective to type of plant viruses using an individual based model Jung-Wook Kho (Gachon University, Korea) |
| 12:20 – 12:40 | OS_4_04 | Development of species distribution model for migratory insect pests under climate change scenario Jung-Joon Park (Gyeongsang National University, Korea) |
| 12:40 – 13:00 | OS_4_05 | Survey of ticks based on epidemiological investigation of severe fever with thrombocytopenia syndrome (SFTS) patients in South Korea Jong Yul Roh (Korea Center for Disease Control and Prevention, Korea) |
| 13:00 – 13:20 | OS_4_06 | Regulation of osmoregulatory organ in hard ticks Donghun Kim (Kyungpook National University, Korea) |
| 13:20 – 13:30 | | Closing remark |

Session 5

(41th Yonsei Tropical Medicine Symposium) Harmful organism of medical importance

Date & Time : 25 Thu 16:00 - 18:00

Room : Meeting 6

Chair : Prof. Tai-Soon Yong

Department of Environmental Medical Biology, Institute of Tropical Medicine,
Yonsei University College of Medicine, Korea

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| 16:00 – 16:20 | OS_5_01 | <i>Acanthamoeba</i> spp. in Korea Hyun-Hee Kong (Donga University College of Medicine, Korea) |
| 16:20 – 16:40 | OS_5_02 | The mechanism of inflammation via degranulation of human mast cells induced by <i>Trichomonas vaginalis</i>-derived LTB4 Arim Min (Yonsei University College of Medicine, Korea) |
| 16:40 – 17:00 | OS_5_03 | Introduction of <i>Acanthamoeba</i> as a new allergen Hak Sun Yu (Pusan National University, Korea) |
| 17:00 – 17:20 | OS_5_04 | Factors underlying the spread of <i>Echinococcus</i> in Central Asia Zafar Sadikov Yusufovich (Isaev Research Institute of Medical Parasitology, Uzbekistan) |
| 17:20 – 17:40 | OS_5_05 | Species diversity of mosquito-carriers <i>leishmaniasis</i> in the modern ecosystem of Uzbekistan Olesya Achilova Djurabayevna (Isaev Research Institute of Medical Parasitology, Uzbekistan) |
| 17:40 – 18:00 | OS_5_06 | Allergy related intestinal microbiome profiling from house dust mite using next generation sequencing Ju Yeong Kim (Yonsei University College of Medicine, Korea) |

Session 6

Ecological, economic and human health impacts of invasive alien plants

Date & Time : 26 Fri 10:30 - 13:00

Room : Meeting 6

Chair : Prof. Sun-Hee Hong
Hankyong National University, Korea

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| 10:30 – 11:00 | OS_6_01 | Prioritizing weeds as targets for biological control: a consultative and transparent framework for investing limited resources for weed management Raghu Sathamurthy (CSIRO, Australia)_Invited speaker |
| 11:00 – 11:30 | OS_6_02 | Predicting non-target attacks of biological control in invasive plant management: Insect host recognition Ikju Park (New Mexico State University, USA)_Invited speaker |
| 11:30 – 12:00 | OS_6_03 | Plant Growth Inhibition by Natural Chemicals from Native and Alien Plants in Korea Songmun Kim (Kangwon National University, Korea) |
| 12:00 – 12:30 | OS_6_04 | Physical control technology based on soil-stored seedbank management of invasive alien species. Sun Hee Hong (Hankyong National University, Korea) |

Session 7

Waste to resources: Emergent materials for environmental applications

Date & Time : 26 Fri 11:00 - 13:00

Room : Meeting 8

Chair : Prof. Yong Sik Ok
Korea University, Korea

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| 11:00 – 11:20 | | Special Session_SCI paper |
| 11:20 – 11:45 | OS_7_01 | Evaluation of Potential Environmental Risks of Waste Compounds Using Ecotoxicological Tests Felizitas Boie (University of Wuppertal, Germany)_Invited speaker |
| 11:45 – 12:10 | OS_7_02 | Biochar as a Sustainable Adsorbent for Capturing Carbon Dioxide: A Critical Review D.M.P.D. Dissanayake (Korea University, Korea) |
| 12:10 – 12:35 | OS_7_03 | Biochar Mediated Soil Microbial Community Change in Soils: A Review Kumuduni Niroshika Palansooriya (Korea University, Korea) |
| 12:35 – 13:00 | OS_7_04 | Cost of 'Recycle' Hyoungwoo Benny Kim (Feople, Korea) |

Session 8

Application of Integrated Mosquito Management (IMM) in South Korea and southeast Asia

Date & Time : 25 Thu 14:00 - 16:30

Room : Meeting 8

Chair : Prof. Yeon Jae Bae
Korea University, Korea

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| 14:00 – 14:30 | OS_8_01 | Past, Present and Future of Mosquito Control Project in Chiang Mai, Thailand Chitchol Phalaraksh (Chiang Mai University, Thailand) |
| 14:30 – 15:00 | OS_8_02 | Dengue vectors in Vietnam and their control approaches Van Vinh Nguyen (VNU University of Science, Vietnam) |
| 15:00 – 15:30 | OS_8_03 | Study of the mosquito population prediction model Dong Gun Kim (Sahmyook University, Korea) |
| 16:00 – 16:30 | OS_8_04 | Vector control management system with Geographical Information System (GIS) Hee Il Lee (Korea Center for Disease Control and Prevention, Korea) |

Session 9

Environmental pollutions and associated microorganisms including harmful organisms

Date & Time : 26 Fri 14:00 - 17:00

Room : Meeting 8

Chair : Prof. Yoon-E Choi
Korea University, Korea

Chair : Dr. Kwi-Nam Han
Korea Basic Science Institute, Korea

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| 14:30 – 14:45 | OS_9_01 | Biogeochemical investigation of arsenic dynamics in wetland microcosm systems Young-Soo Han (Korea Institute of Geoscience and Mineral Resource, Korea) |
| 14:45 – 15:00 | OS_9_02 | Application of ureolytic bacteria to remediate heavy metal contaminated mine soils In-Hyun Nam (Korea Institute of Geoscience and Mineral Resource, Korea) |
| 15:00 – 15:15 | OS_9_03 | Arsenic stabilization mechanism in mine waste by basic oxygen furnace slag Seulki Jeong (Korea Basic Science Institute, Korea) |
| 15:30 – 15:45 | OS_9_04 | Copper recovery from wood preservative effluent using bacterial waste-based adsorbents Sok Kim (Korea University, Korea) |
| 16:00 – 16:15 | OS_9_05 | Meta-omic analysis reveals carbon remineralization by bacteria in Phaeocystis bloom in the Amundsen Sea polynya So-Jeong Kim (Korea Institute of Geoscience and Mineral Resources, Korea) |
| 16:30 – 16:45 | OS_9_06 | Environmental sensing platform for the determination of trace heavy metal ions Kwi-Nam Han (Korea Basic Science Institute, Korea) |
| 16:45 – 17:00 | OS_9_07 | Investigation of novel bacteriophages and their application on on-site applicable biosensor method Mi-Kyung Park (Kyungpook National University, Korea) |

Session 10- A

Endocrine Disruptors

Date & Time : 26 Fri 14:30 - 17:00

Room : Meeting 6

Chair : Prof. In Cheol Shin
Hanyang University, Korea

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| 14:30 – 15:00 | OS_10_A01 | 4-octylphenol induces craniofacial defect via deregulation of neural crest cells in <i>Bombina orientalis</i> embryos Myung Chan Gye (Hanyang University, Korea) |
| 15:00 – 15:30 | OS_10_A02 | Development of personalized risk assessment platform for the use of consumer chemical products YoungJoo Lee (Sejong University, Korea) |
| 16:00 – 16:30 | OS_10_A03 | Fluorocolorimetric Analysis of Endocrine Disruptors Using Aptamer-Facilitated Gold Nanoparticles Young Pil Kim (Hanyang University, Korea) |
| 16:30 – 17:00 | OS_10_A04 | Contamination and fate of plastic debris associated chemicals Won Joon Shim (Korea Institute of Ocean Science & Technology, Korea) |

Session 10- B

Environmental Biology

Date & Time : 26 Fri 14:30 - 17:00

Room : Hall C

Chair : Dr. Jin Kyu Kim

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| 14:30 – 14:45 | OS_10_B01 | Temporal changes in the community structure of macrobenthos in the Bongam tidal flat of Masan Bay, Korea Jeong Hyeon Kim (Korea Institute of Ocean Science & Technology, Korea) |
| 14:45 – 15:00 | OS_10_B02 | Population genetic structure of chum salmon, <i>Oncorhynchus keta</i> from South Korea: identification of management units for its conservation Ji Eun Jang (Sangji University, Korea) |
| 15:00 – 15:15 | OS_10_B03 | Studies on ecological stability of artificially and naturally restored streams in time and space using a network approach: Case studies of Cheonggye and Jungjang streams Minyoung Lee (Korea University, Korea) |
| 15:15 – 15:30 | OS_10_B04 | Pearson correlation analysis between land use and the population of <i>Brachymystax lenok</i> Min Seop Ko (Sangji University, Korea) |
| 16:00 – 16:15 | OS_10_B05 | Comparison of mosquito larvae control techniques using natural enemy and BTI (<i>Bacillus thuringiensis israelensis</i>) Jung Soo Han (Sangji University, Korea) |
| 16:15 – 16:30 | OS_10_B06 | 4-octylphenol induces developmental abnormalities via deregulation of neural crest cells in <i>Xenopus laevis</i> embryos Yang Xu (Hanyang University, Korea) |
| 16:30 – 16:45 | OS_10_B07 | Marine litter on the continental shelf and slope/floor in Ulleung Basin of East Sea (Sea of Japan) Won-Gi Min (Korea Institute of Ocean Science & Technology, Korea) |
| 16:45 – 17:00 | OS_10_B08 | Community characteristics analysis of the Aquatic Oligochaeta according to the installation of weir in four major rivers in South Korea Ju Hyoun Wang (Sangji University, Korea) |

Poster Session

Poster Presentation A

Date & Time : 25 Thu 15:30~ 16:00

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| PS_1_1 | Toxic HAB species from the Sea of Okhotsk detected by a metagenetic approach Satoshi Nagai (National Research Institute of Fisheries Science, Japan) |
| PS_1_2 | Morphology, phylogeny and life cycle of <i>Fragilidium mexicanum</i> Balech (Gonyaulacales, Dinophyceae) Zhun Li (Korea Institute of Ocean Science & Technology, Korea) |
| PS_1_3 | <i>Prorocentrum shikokuense</i> Hada and <i>P. donghaiense</i> Lu are the synonym of <i>P. obtusidens</i> Schiller (Procentrales, Dinophyceae) Hyeon Ho Shin (Korea Institute of Ocean Science & Technology, Korea) |
| PS_1_4 | Changes in cytoplasmic organelles characteristics by chemical algicidal substance for dinoflagellate <i>Cochlodinium polykrikoides</i> and <i>Heterocapsa circularisquama</i> Se Yun Jin (South Sea Fisheries Research Institute, National Institute of Fisheries Science, Korea) |
| PS_1_5 | Growth change in three harmful algal blooming species by addition of bacterial communities exposed to dissolved organic matter derived from <i>Heterosigma akashiwo</i> (Raphidophyceae) Ro Young Park (Hanyang University, Korea) |
| PS_1_6 | Evaluation of algicidal substances as a candidate for the control of dinoflagellates <i>Cochlodinium polykrikoides</i> and <i>Heterocapsa circularisquama</i> Se Yun Jin (South Sea Fisheries Research Institute, National Institute of Fisheries Science, Korea) |
| PS_1_7 | Harmful algal blooms by dinoflagellates are related with specific bacteria Hui Wang (Sangmyung University, Korea) |
| PS_1_8 | Remote sensing monitoring of <i>Margalefidinium polykrikoides</i> blooms in the South Sea of Korea Joo-Hyung Ryu (Korea Institute of Ocean Science and Technology, Korea) |
| PS_1_9 | Evaluation of freshness quality of strawberries fruit produced in the biochar mixed hydroponic culture using photochemical reaction and thermal image methods Tae-Wan Kim (Hankyong National University, Korea) |
| PS_1_10 | Evaluation of photochemical reactions for shikimic acid accumulation in Burcucumber (<i>Sicyos angulatus</i> L.) treated with glyphosate Tae-Wan Kim (Hankyong National University, Korea) |
| PS_2_1 | Red Tide Monitoring by Using Unmanned Aerial Vehicle Seung Yeol Oh (National Institute of Fisheries Science, Korea) |
| PS_3_1 | The complete mitochondrial genome comparisons of true jellyfishes Scyphozoans Mustafa Zafer Karagozlu (Sangmyung University, Korea) |
| PS_3_2 | Molecular approaches reveal biogeographic separation of the harmful jellies <i>Aurelia coerulea</i> and <i>A. limbata</i> along the eastern coasts of Korea Yosep Seo (Sangmyung University, Korea) |
| PS_3_3 | Three species of family Diphyidae (Hydrozoa: Siphonophorae) in Korean Waters Nayeon Park (Hanyang University, Korea) |
| PS_3_4 | Proteomic Investigation to Identify Anticancer Targets of <i>Nemopilema nomurai</i> Jellyfish Venom in Human Hepatocarcinoma HepG2 Cells Du Hyeon Hwang (Gyeongsang National University, Korea) |
| PS_3_5 | Feeding behavior of a box jellyfish, <i>Carybdea brevipedalia</i> Jinho Chae (Marine Environmental Research & Information Laboratory (MERIL), Korea) |
| PS_3_6 | Molecular phylogeny of planthoppers according to mitochondrial protein coding genes Hyung-eun An (Sangmyung University, Korea) |
| PS_7_1 | Fabrication of Novel Chitosan Compositated Fibers from Paper Mill Sludge Biochar for Effective Removal of Phosphate Kumuduni Niroshika Palansooriya (Korea University, Korea) |
| PS_7_2 | Effect of Feedstock Type and Modification Method on Carbon Dioxide Adsorption Capacity of Biochar D.M.P.D. Dissanayake (Korea University, Korea) |
| PS_8_1 | Screening aquatic insect predators for biological control of <i>Aedes aegypti</i> in Hanoi, Vietnam Van Cuong Duong (Korea University, Korea) |
| PS_8_2 | A new distributional record of the giant water bug <i>Lethocerus patruelis</i> (Hemiptera: Belostomatidae) in Thailand with notes on its conservation Nattawut Sareein (Korea University, Korea) |

Poster Presentation B

Date & Time : 26 Fri 09:00~ 09:30

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| PS_10_1 | Temporal changes in the community structure of macrobenthos in the Bongam tidal flat of Masan Bay, Korea Jeong Hyeon Kim (Korea Institute of Ocean Science & Technology (KIOST), Korea) |
| PS_10_2 | Impact of environmental variables on the diversity and distribution of the megabenthos in the South Sea of Korea Su Min Kang (Korea Maritime and Ocean University, Korea) |
| PS_10_3 | Species composition and distribution of hull-fouling macrozoobenthos differs among research vessel navigation areas Hyung Gon Lee (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_4 | Species composition and community structure of the soft-bottom macrobenthos at the coastal and its adjacent areas of Dokdo, the East Sea of Korea OK Hwan Yu (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_5 | Fluorocolorimetric Detection of Endocrine Disruptors Using Aptamer-Facilitated Gold Nanoparticles Eun-Song Lee (Hanyang University, Korea) |
| PS_10_6 | Impacts of a massive aquaculture of Manila Clam (<i>Ruditapes philippinarum</i>) on the macrobenthic communities in a tidal ecosystem in Korea Sang Lyeol Kim (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_7 | Effects of booster biocides and by-products from vessels on embryo test of a sea urchin, <i>Mesocentrotus nudus</i> Jin Young Seo (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_8 | Seasonal phytoplankton community using microscopic and Chemotax pigment analysis in Seomjin River Estuary, Korea Minji Lee (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_9 | Environmental factors affecting dynamics of phytoplankton community in port baseline surveys in Korea Oh Youn Kwon (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_10 | Distribution of mesozooplankton in the deep-sea hydrothermal vent in the Indian Ridge Minju Kim (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_11 | Population genetic structure of chum salmon, <i>Oncorhynchus keta</i> from South Korea: identification of management units for its conservation Ji Eun Jang (Sangji University, Korea) |
| PS_10_12 | Abalone mortality associated with harmful algae <i>Karenia mikimotoi</i> and <i>Cochlodinium polykrikoides</i> Sang Jun Lee (Aquaculture Division, South Sea Fisheries Research Institute, NIFS, Korea) |
| PS_10_13 | Risk assessment of in situ application of microbubble ozonation to cyanobacteria control Gwiwoong Nam (Korea University, Korea) |
| PS_10_14 | A simple and efficient method for removing of ricin B chain from unknown ricin sample Sooyong Kim (Chungnam National University, Korea) |
| PS_10_15 | A rapid immunochromatographic testing strip using catalytic nanomaterials for highly sensitive point of care test Soo Hyeon Kim (Korea Basic Science Institute, Korea) |
| PS_10_16 | Green Light as Supplementary Light for Enhancing Biomass Production of <i>Ettlia</i> sp. and Preventing Population Invasion from Other Microalgae Ankita Srivastava (Korea Research Institute of Bioscience Biotechnology (KRIBB), Korea) |
| PS_10_17 | Algicidal effects of <i>Pseudoruegeria</i> sp. M32A2M against toxic dinoflagellate <i>Alexandrium tamarense</i> So-Ra Ko (Korea Research Institute of Bioscience Biotechnology (KRIBB), Korea) |
| PS_10_18 | Specific oceanographic characteristics and phytoplankton responses influencing the primary production around the Ulleung Basin area in spring Minji Lee (Korea Institute of Ocean Science & Technology, Korea) |

Poster Presentation C

Date & Time : 26 Fri 15:30~ 16:00

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| PS_10_19 | Morphological changes of a psychrotrophic <i>Pseudoalteromonas</i> species after exposure to sublethal concentrations of vancomycin Hyunjun Kim(Yonsei University, Korea) |
| PS_10_20 | Accumulation of micoplastics in sheepshead minnow (<i>Cyprinodon variegatus</i>) Youn-Joo Jung (Korea Institute of Toxicology (KIT), Korea) |
| PS_10_21 | Developmental toxicity of Bisphenol A and their structural analogues in <i>Xenopus laevis</i> embryos Yang Xu (Hanyang University, Korea) |
| PS_10_22 | Development and Application of synthetic polymer based bio-sorbents to Control Harmful Alga, <i>Microcystis aeruginosa</i> Ho Seon Kim (Korea University, Korea) |
| PS_10_23 | Control of harmful alga, <i>Microcystis aeruginosa</i>, using adsorptive technique by chitosan sorbents. Yun Hwan Park (Korea University, Korea) |
| PS_10_24 | The identification of IgE binding proteins in non-biting midges (<i>Cricotopus bicinctus</i>), potentially potent producers of allergens around the river Myunghye Yi (Yonsei University, Korea) |
| PS_10_25 | Spatial characteristics of microplastics and mesozooplankton in the surface mixed layer of South Sea of Korea and Northern East China Sea Jung-Hoon Kang (Korea Institute of Ocean Science & Technology, Korea) |
| PS_10_26 | Metabarcoding Analysis of Red-Tide Waters in Goeje (South Korea) Hye-Eun Kang (Pukyong National University, Korea) |
| PS_10_27 | Predicting the potential habitat and risk assessment of <i>Aster subulatus</i> var. <i>sandwicensis</i> using MaxEnt Yong Ho Lee (Institute for Future Environmental Ecology Co., Ltd, Korea) |
| PS_10_28 | The Evaluation of invasive species in Soyang Lake, using AS-ISK (Aquatic Species Invasiveness Screening Kit) Un Hwa Heo (Sangji University, Korea) |
| PS_10_29 | Pyrosequencing and morphological analyses reveal high diversity of freshwater phytoplankton in Paldang reservoir (Korea) Hansol Kim (Sangmyung University, Korea) |
| PS_10_30 | Diversity and seasonal changes of cyanobacteria in Paldang reservoir (Korea) explored by 16S rDNA metagenomics Yosep Seo (Sangmyung University, Korea) |
| PS_10_31 | A Case Report on the Introduced Species, <i>Chelydra serpentina</i>, found in the wild of South Korea. Kyo Soung Koo (Chonnam National University, Korea) |
| PS_10_32 | Survey on Invasive Amphibians and Reptiles Traded Online in South Korea Hye Rin Park (Chonnam National University, Korea) |
| PS_10_33 | Distribution of Exotic Turtles and Comparison with Red-Eared Turtles in Korea Jae Hyeok Choi (Chonnam National University, Korea) |
| PS_10_34 | A study on planting combination methods for considering plant invasiveness to urban vegetation communities Seung Won Han (National Institute of Horticultural and Herbal Science, RDA, Korea) |
| PS_10_35 | Bisphenol A and their structural analogues induces neural tube deformities during <i>Xenopus laevis</i> embryos development Ji Hyun Jang (Hanyang University, Korea) |
| PS_10_36 | Effect of the microplastic on meiofauna and nematodes Teawook Kang (Korea Institute of Ocean Science & Technology, Korea) |
