

Program summary

25-Aug	Hall A	Hall B	Hall C	Remarks
17:00-18:00				Reception
18:00-18:30			Opening ceremony	
18:30-19:30			Plenary lecture: Dr. Markus Hecker	
19:30-21:00				Welcome reception

26-Aug	Hall A	Hall B	Hall C	Remarks
9:10-10:00	Chairperson: Kodama, Horiguchi			
	Special Session “20. Toxicity assessment and its environmental/ecological relevance (1)”			
Break				
10:20-12:00	Chairperson: Kume, Horiguchi			
	Special Session “20. Toxicity assessment and its environmental/ecological relevance (2)”			
11:00-12:00	Chairperson: Horiguchi			
	Special Session lecture: Dr. Akio Sohma "			
Lunch break				

13:20-14:40	Chairperson: Okamura, Nakachi	Chairperson: Kintsu, Suzuki		
	General session "11. Environmental risk of antifouling biocides etc. (1)"	General session "1. Accumulation of and effects by heavy metals or radioisotopes in aquatic organisms"		
Break				
15:00-16:00	Chairperson: Kojima, Honda	Chairperson: Iwata, Isobe		
	General session "11. Environmental risk of antifouling biocides etc. (2)"	General session "17. New approach methodologies (NAMs) in toxicology and environmental toxicology (1)"		
Break				
16:20-18:00			General sessions (Poster)	

27-Aug	Hall A	Hall B	Hall C	Remarks
9:00-10:40	Chairperson: Takao, Isobe	Chairperson: Nakayama, Shimasaki		
	General session "2. Analytical methods and dynamic analysis of environmental chemicals"	General session "14. Hematotoxicity and immunotoxicity"		
Break				
11:00-12:00	Chairperson: Kodama			
	Keynote lecture (1): Dr. Nathaniel Scholz			
Lunch break				
13:20-14:20	Chairperson: Honda			
	Keynote lecture (2): Dr. Ruth Sofield			

Break				
14:40-16:20	Chairperson: Iwata, Suzuki	Chairperson: Maekawa, Morishita		
	General session "17. New approach methodologies (NAMs) in toxicology and environmental toxicology (2)"	General sessions "16. Neurotoxic chemicals and their effects on humans and wildlife"		
Break				
16:30-18:00			General sessions (Poster)	
18:00-21:00				Wine party

28-Aug				
8:00-18:00	Excursion (Special tour to Minamata)			

29-Aug	Hall A	Hall B	Hall C	Remarks
9:00-10:20	Chairperson: Watanabe, Shimasaki	Chairperson: Ishiduka, Maekawa		
	General session "3. Bioassays and testing methods (1)"	General session "12. Environmental toxicology of terrestrial animals/ecosystems (1)"		
Break				
10:40-11:40	Chairperson: Kang			
	Keynote lecture (3): Dr. Xuchun Qiu			
Lunch break				
13:20-14:20	Chairperson: Iwata			

	Keynote lecture (4): Dr. Cinta Porte			
Break				
14:40-16:20	Chairperson: Oshima, Nakayama	Chairperson: Ishiduka, Iwata		
	General session "8. Effect of micro and nano plastics on aquatic animals at experimental and real condition (1)"	General session "12. Environmental toxicology of terrestrial animals/ecosystems (2)"		
Break				
16:30-18:00			General sessions (Poster)	
18:00-21:00				Banquet

30-Aug	Hall A	Hall B	Hall C	Remarks
9:00-10:00	Chairperson: Oshima, Shimasaki	Chairperson: Kang, Nakayama		
	General session "8. Effect of micro and nano plastics on aquatic animals at experimental and real condition (2)"	General session "19. Signals from aquatic organisms, the behavioral effects as a toxicity assessment indicator (1)"		
Break				
10:20-11:40	Chairperson: Yamamoto, Oshima	Chairperson: Kang, Shimasaki		
	General session "3. Bioassays and testing methods (2)"	General session "19. Signals from aquatic organisms, the behavioral effects as a toxicity assessment indicator (2)"		
11:40-12:00	Wrap-up			
12:00-12:30	Closing ceremony			

Program schedule

(S): The persons who are applying to Best Student Poster or Platform Awards. (Y): The persons who are applying to Best Young Scientist Poster or Platform Awards.

25-Aug	Hall A	Hall B	Hall C	Remarks
17:00-18:00				Reception
18:00-18:30			Opening ceremony	
18:30-19:30			Plenary lecture: Dr. Markus Hecker "Unraveling the toxicity of 6PPD-quinone across fishes of commercial, cultural, and ecological importance"	
19:30-21:00				Welcome reception

26-Aug	Hall A	Hall B	Hall C	Remarks
	Special Session "20. Toxicity assessment and its environmental/ecological relevance (1)"			
	Chairperson: Kodama, Horiguchi			
9:10-9:20	Toshihiro Horiguchi "Explanation of aim"			
9:20-9:40	O-1. (S) Alexis Trujillo "Impairment of post translational histone modifications in osteoblast subpopulations after parental benzo[a]pyrene exposure"			

9:40-10:00	O-2. (S) Yuan-Ru Wu "Toxicity of rare earth elements on medaka fish and associated ecological risk assessment"			
Break				
	Special Session "20. Toxicity assessment and its environmental/ecological relevance (2)"			
	Chairperson: Kume, Horiguchi			
10:20-10:40	O-3. Toshihiro Horiguchi "Reproductive abnormalities observed in a rock shell population in the vicinity of the Fukushima Daiichi Nuclear Power Plant, Japan"			
10:40-11:00	O-4. Keita Kodama "Long-term changes in the megabenthic community structure of Tokyo Bay in relation to shifts in environmental conditions"			
	Chairperson: Horiguchi			
11:00-12:00	Special Session lecture: Dr. Akio Sohma "An assessment model of toxic chemicals integrating benthic-pelagic lower ecosystem and the lower-higher trophic food web"			
Lunch break				
	General session "11. Environmental risk of antifouling biocides etc. (1)"	General session "1. Accumulation of and effects by heavy metals or radioisotopes in aquatic organisms"		
	Chairperson: Okamura, Nakachi	Chairperson: Kintsu, Suzuki		

13:20-13:40	O-5. (S) Hirohisa Mieno "Recent trend of antifouling coating technology and related regulations"	O-12. (S) Haksoo Jeong "Single and combined effects of increased temperature and methylmercury on different stages of the marine rotifer <i>Brachionus plicatilis</i> "		
13:40-14:00	O-6. Ryuji Kojima "A bioassay for evaluating the efficacy of antifouling paints on algae using their CIELAB color coordinates with a flow-through system"	O-13. (Y) Eunjin Byeon "Toxicity and speciation of inorganic arsenics and their adverse effects on in vivo endpoints and oxidative stress in the marine medaka <i>Oryzias melastigma</i> "		
14:00-14:20	O-7. (S) Jaehye Kim "Detrimental effects of hull cleaning wastewater on oxidative status, life cycle parameters, and population growth of the monogonont rotifer <i>Brachionus manjavacas</i> "	O-14. (Y) Izabela Joško "Game-changing transformations: Rethinking metal nanoparticle toxicity in water"		
14:20-14:40	O-8. (S) Somyeong Lee "Hull-cleaning wastewater poses serious acute and chronic toxicity to a marine mysid—a multigenerational study"			
Break				
	General session "11. Environmental risk of antifouling biocides etc. (2)"	General session "17. New approach methodologies (NAMs) in toxicology and environmental toxicology (1)"		
	Chairperson: Kojima, Honda	Chairperson: Iwata, Isobe		
15:00-15:20	O-9. (S) Mi Zhou "Antifouling and marine paint – related microparticles containing heavy metals in surface water in Osaka Bay, Japan"	O-15. (S) Junyi Lin "Unraveling the mechanism and species sensitivity differences in 6PPD-quinone toxicity by using whole transcriptome analysis in four fish species"		

15:20-15:40	O-10. (Y) Lianguo Chen "A new mechanism of reproductive endocrine disruption based on isothiazolinone"	O-16. (S) Hannah Mahoney "Unveiling the molecular effects of replacement and legacy PFASs: Transcriptomic analysis of zebrafish embryos reveals surprising similarities and potencies"		
15:40-16:00	O-11. Toshimitsu Onduka "Monitoring and ecological risk assessment of antibiotics and herbicides in the Seto Inland Sea, Japan"	O-17. (S) Phillip Ankley "Xenometabolome of early-life stage salmonids exposed to 6PPD-quinone"		
Break				
16:20-18:00			General sessions (Poster)	

27-Aug	Hall A	Hall B	Hall C	Remarks
	General session "2. Analytical methods and dynamic analysis of environmental chemicals"	General session "14. Hematotoxicity and immunotoxicity"		
	Chairperson: Takao, Isobe	Chairperson: Nakayama, Shimasaki		
9:00-9:20	O-18. (S) Miho Nomura "Residue analysis of non-phthalate plasticizers in seawater and sediments at Osaka Bay, Japan"	O-28. Frauke Seemann "Marine medaka (<i>Oryzias melastigma</i>) as a developmental immunotoxicity model for PFAS exposure "		
9:20-9:40	O-19. Maciej Tankiewicz "Organic pollutant impact from poultry farm on soil"	O-29. (S) Jonathan Hoang "Immunotoxicity of cryo-milled tire tread in Japanese medaka (<i>Oryzias latipes</i>)"		
9:40-10:00	O-20. (S) Remi Labeille "Benzo[a]pyrene as an epigenetic toxicant"	O-30. Kei Nakayama "Chronic exposure to tire particles induces anemia in common carp"		

10:00-10:20	O-21. (Y) Agnieszka Fiszka Borzyszkowska "Antibiotic resistance in the soils of the intensive farming coop and fields nearby"			
10:20-10:40	O-22. (S) Yangqing Liu "Kinetic analysis of microplastics and their impacts on Japanese medaka (<i>Oryzias latipes</i>)"			
Break				
11:00-12:00	Chairperson: Kodama			
	Keynote lecture (1): Dr. Nathaniel Scholz "Coastal development, toxic urban runoff, and Pacific salmonid conservation in western North America"			
Lunch break				
13:20-14:20	Chairperson: Honda			
	Keynote lecture (2): Dr. Ruth Sofield "Contaminants of emerging concern in the Salish Sea, USA"			
Break				
	General session "17. New approach methodologies (NAMs) in toxicology and environmental toxicology (2)"	General sessions "16. Neurotoxic chemicals and their effects on humans and wildlife"		
	Chairperson: Iwata, Suzuki	Chairperson: Maekawa, Morishita		
14:40-15:00	O-23. (Y) Kyoshiro Hiki "Application of AmpliSeq to environmental RNA may enable non-invasive assessments of various activities in fish"	O-31. (Y) Eiki Kimura "Dioxin target neurons in the mammalian brain"		

15:00-15:20	O-24. Steve Wiseman "Towards development of an in vitro assay of oocyte maturation inhibition to predict reproductive capacity of fishes"	O-32. Seico Benner "Large-scale behavioral data-driven approach for neurotoxicity risk assessment using animals"		
15:20-15:40	O-25. (S) Keito Takahashi "Inferring the health outcomes of PFAS using a network biology approach"	O-33. Tomohiro Ito "Analysis of effects of nanoplastic particles on human neurons"		
15:40-16:00	O-26. Daniela M. Pampanin "Automated analysis of histological lesions in whole slide images of fish liver"			
16:00-16:20	O-27. Akira Kubota "Developmental effects of estrogenic endocrine-disrupting chemicals and the predictability of in vitro and in silico analyses using zebrafish (<i>Danio rerio</i>)"			
Break				
16:30-18:00			General sessions (Poster)	
18:00-21:00				Wine party

28-Aug	
8:00-18:00	Excursion (Special tour to Minamata)

29-Aug	Hall A	Hall B	Hall C	Remarks
	General session "3. Bioassays and testing methods (1)"	General session "12. Environmental toxicology of terrestrial animals/ecosystems (1)"		

	Chairperson: Watanabe, Shimasaki	Chairperson: Ishiduka, Maekawa		
9:00-9:20	O-34. (S) Jed Mamish "Investigation of cytotoxicity of lipofectamine in rainbow trout fish cell lines"	O-43. (S) Woo-Seon Song "Evolutionary decline of AHR2 and compensatory role of AHR1: Implications for environmental toxicology in mammals"		
9:20-9:40	O-35. (Y) Yusuke Oda "Mixture effects of dialkylesters of phthalic acids (PAEs) on aquatic organisms based on predicted environmental exposure profiles"	O-44. (S) Kanami Watanabe "Evaluation of heavy metal and pesticide residues in fecal samples of african savanna elephants in Lower Zambezi National Park, Zambia"		
9:40-10:00	O-36. Gisela Umbuzeiro "Comparison of the eco/genotoxicity of natural anthraquinone dyes"	O-45. Patryk Oleszczuk "Biochar: The key to eco-friendly biosolids management and a thriving circular economy"		
10:00-10:20	O-37. Haruna Watanabe "How much known chemical substances in receiving water can explain the measured toxicity to alga, daphnid and fish?"			
Break				
10:40-11:40	Chairperson: Kang			
	Keynote lecture (3): Dr. Xuchun Qiu "Effects of pharmaceutical contaminants on fish behaviors: Underlying mechanisms and ecological consequences"			
Lunch break				
	Chairperson: Iwata			

13:20-14:20	Keynote lecture (4): Dr. Cinta Porte "New approach methodologies for studying plastic related toxicity: A lipidomic perspective"			
Break				
	General session "8. Effect of micro and nano plastics on aquatic animals at experimental and real condition (1)"	General session "12. Environmental toxicology of terrestrial animals/ecosystems (2)"		
	Chairperson: Oshima, Nakayama	Chairperson: Ishiduka, Iwata		
14:40-15:00	O-38. (Y) Jin-Sol Lee "Synergistic toxic mechanisms of microplastics and triclosan via multixenobiotic resistance (MXR) inhibition-mediated autophagy in the freshwater water flea <i>Daphnia magna</i> "	O-46. Sébastien Lemièrè "Integrated assessment of the toxicological, ecotoxicological and ecological effects of all phytopharmaceutical treatments used during a whole potato crop season"		
15:00-15:20	O-39. Margit Heinlaan "Long-term effects of plastic additives on aquatic and terrestrial biota"	O-47. (S) Dongha Kim "Molecular and ecological linkages to dioxin sensitivity of mammalian aryl hydrocarbon receptor 1"		
15:20-15:40	O-40. (S) Nik Nurhidayu Nik Mut "Biofouling alleviates acute and chronic toxicity of polylactic acid microplastics to <i>Daphnia magna</i> "	O-48. (Y) Dani Sukkar "Imidacloprid and amitraz synergistically alter immune responses in <i>Apis mellifera</i> hemocytes with fungal PAMPs exposure"		
15:40-16:00	O-41. (S) Radwa Saad "Uptake and depuration kinetics of small microplastics in juveniles of sea squirts (<i>Ciona intestinalis</i>)"			

16:00-16:20	O-42. (S) Md Al-Emran "Vector effects of polyethylene microplastics on the accumulation of phenanthrene in Japanese medaka, <i>Oryzias latipes</i> "			
Break				
16:30-18:00			General sessions (Poster)	
18:00-21:00				Banquet

30-Aug	Hall A	Hall B	Hall C	Remarks
	General session "8. Effect of micro and nano plastics on aquatic animals at experimental and real condition (2)"	General session "19. Signals from aquatic organisms, the behavioral effects as a toxicity assessment indicator (1)"		
	Chairperson: Oshima, Shimasaki	Chairperson: Kang, Nakayama		
9:00-9:20	O-49. (S) Yasuharu Katte "Kinetics of microplastics with different polymer types in <i>Grandidierella japonica</i> "	O-56. (S) Fu-Mei Chan "Reproductive toxicity of benzophenone-related derivatives used in food contact materials on medaka"		
9:20-9:40	O-50. (S) Sana Mikami "Predicting the combined effects of environmental contaminants adsorbed on beached plastic pellets using network science"	O-57. (Y) Kahina Mehennaoui "Assessing behavioral responses and toxicokinetic profiles of multicomponent nanoparticles in <i>Daphnia magna</i> "		
9:40-10:00	O-51. (S) SeokHyun Lee "Impact of polystyrene ingestion on the gut microbiota and metabolic processes of wharf roaches (<i>Ligia sp.</i>)"	O-58. (S) Abrianna Elke Chairil "First application of one-class support vector machine algorithms for detecting abnormal behavior of marine medaka <i>Oryzias javanicus</i> exposed to the harmful alga <i>Karenia mikimotoi</i> "		

Break				
	General session "3. Bioassays and testing methods (2)"	General session "19. Signals from aquatic organisms, the behavioral effects as a toxicity assessment indicator (2)"		
	Chairperson: Yamamoto, Oshima	Chairperson: Kang, Shimasaki		
10:20-10:40	O-52. Mariliis Sihtmäe "Toxicity of silver–chitosan nanocomposites to aquatic microcrustaceans <i>Daphnia magna</i> and <i>Thamnocephalus platyurus</i> and naturally luminescent bacteria <i>Vibrio fischeri</i> "	O-59. (Y) Yuki Takai "Peek-A-Boo test: Assessing the behavioral impact of diazepam and chlorpyrifos on medaka fish (<i>Oryzias latipes</i>)"		
10:40-11:00	O-53. Kaja Kasemets "Novel synergistic antimicrobial silver-chitosan nanocomposites: Design, efficiency and safety"	O-60. (S) Yuya Hojo "Examination for effects of OxyPAHs in Japanese medaka embryo triggered by oxidative stress "		
11:00-11:20	O-54. Seiichi Uno "Comparison of sensitivities between <i>Oryzias Javanicus</i> and <i>Oryzias latipes</i> embryos exposed to sediments collected in Tokyo Bay"	O-61. Ik-Joon Kang "Effect of chlorpyrifos on alarm reaction of Japanese medaka (<i>Oryzias latipes</i>) induced by alarm substances"		
11:20-11:40	O-55. (S) Gunay Karimova "Chronic toxicity and multifaceted detrimental effects of diflubenzuron on <i>Daphnia magna</i> "	O-62. Hyung Chul Kim "Investigation of the cause of the mass mortality of sardines in Jinhae Bay of Korea, 2022"		
11:40-12:00	Wrap-up			
12:00-12:30	Closing ceremony			

Poster presentations

26th August	
P-1. Kenji Yoshino	A trophic dilution of Hg in the macrobenthos community from Minamata Bay
P-2. (Y) Hiroyuki Kintsu	Accumulation of radioactive strontium derived from the Fukushima nuclear accident in vertebral bones of marine fishes
P-3. Zin'ichi Karube	Radiostrontium (Sr-90) activity in shells of mussels from the coastal area of Fukushima Prefecture, Japan
P-4. (Y) Kyoshiro Hiki	Effects of tire-derived chemical 6PPD-quinone on mitochondrial function in salmonid fish species
P-5. (S) Zhaoya Li	Effect of antifouling agents dichlofluanid and chlorothalonil on growth and photosynthetic activity of marine diatom <i>Thalassiosira pseudonana</i>
P-6. Chon Rae Cho	A study on the distribution characteristics of organotin compounds in sediments around Ulsan Bay, Korea
P-7. (S) Islem Boukara	Assessment of the effects of short-, medium-, and long-chain chlorinated paraffins on the differentiation of human iPS cells to definitive endoderm
P-8. (Y) Živilė Jurgelėnė	Graphene oxide nanoparticles for water purification: Mitigating heavy metal contamination and toxicity in aquatic ecosystems
P-9. Danguolė Montvydienė	The impact of war on the aquatic ecosystems of Ukraine: Problems and solutions
P-10. (S) Hao Chen	New approach methodology for hazard assessment of short-chain chlorinated paraffins in <i>ex-ovo</i> chicken embryos
P-11. Hisato Iwata	New approach methodologies to predict transactivation potencies of environmental contaminants mediated by Baikal seal estrogen receptor α and β
P-12. Christina Emmanouil	The sewage sludge directive in EU and its imminent amendment
P-13. (S) Emily K. C. Kennedy	A method for non-lethal detection of endocrine disruption in fishes
P-14. Pei-Jen Chen	Assessing bioavailability and toxicity of contaminated sediment with medaka fish
P-15. Keita Kodama	Decadal monitoring of the megabenthic community in the coastal areas of Fukushima Prefecture, Japan, after the Great East Japan Earthquake
P-16. Emiko Kokushi	Examinations for potential of dietary accumulations for chemicals by common carp (<i>Cyprinus carpio</i> L.) and relationship between biomagnification factors and octanol water partition coefficient
P-17. Noriaki Namba	Evaluation of the toxicity to algae of leaches from rare-earth elements (REE)-rich mud from the seabed around Minami-Tori-Shima
P-18. (S) Dylan Mack	Comparative analysis of spine and otolith gene expression and mineralization changes due to ancestral BaP exposure
P-19. Michio Suzuki	Cd binding protein from the midgut of the scallop, <i>Mizuhopecten yessoensis</i>
P-20. (S) Yuto Namikawa	Iron distribution and iron-binding protein in the digestive diverticula of <i>Turbo sazae</i>
P-21. (Y) Yugo Kato	A histidine-rich protein detected from lower jaws of green lugworm accumulating zinc

27th August

P-22. (S) Deejay Suen-yui Mak	An investigation into chloroxylenol, a popular antimicrobial ingredient in hygiene and disinfection products, in water environments of Hong Kong
P-23. Maciej Tankiewicz	Pollutant penetration from poultry farm into groundwater
P-24. Yoshikatsu Takazawa	Long-range transport of POPs from East Asia
P-25. (Y) Agnieszka Fiszka Borzyszkowska	Screening analyses of micropollutants originating from intensive poultry farming in core soils
P-26. (S) Natsuki Ono	Changes in <i>Takifugu rubripes</i> liver gene expression after oral administration of tetrodotoxin
P-27. (Y) Midori Iida	Network-based approach to exploring mechanisms of action for PFAS
P-28. Hyeon Seo Cho	Distribution and bioaccumulation of perfluoroalkyl substances in freshwater ecosystem of Korea
P-29. Masato Honda	Estimation of physiological effects of perfluorooctane sulfonate in <i>Takifugu rubripes</i>
P-30. Fumihiro Morishita	Disrupted seasonal expression of neuropeptide precursor genes in the brain of <i>Reishia clavigera</i> with abnormal reproduction near Fukushima Daiichi Nuclear Power Plant
P-31. Moonho Son	<i>Alexandrium catenella</i> (Group I) causes higher and faster toxicity than <i>A. pacificum</i> (Group IV) in <i>Mytilus edulis</i>
P-32. (S) Shoma Inoue	Growth interactions between the harmful dinoflagellates <i>Heterocapsa circularisquama</i> and the diatom <i>Skeletonema dohrnii</i>
P-33. (S) Zhangbin Liu	Growth interactions between the dinoflagellate <i>Karenia selliformis</i> and the diatom <i>Chaetoceros diadema</i>
P-34. (S) Han Bao	Effects of <i>Karenia selliformis</i> exposure on the sea anemone <i>Actinia equina</i>
P-35. Toshihiro Horiguchi	Accumulation and excretion of ¹³¹ I and ¹³⁴ Cs in the rock shell, <i>Reishia clavigera</i> , exposed in a simulating manner of a nuclear power plant accident: toward the dose estimation
P-36. Frauke Seemann	Sperm epigenome as an indicator of modified offspring brain development
P-37. Tomohiko Isobe	Intervention trial for pharmacokinetic study of chemicals in daily use products
P-38. Jurate Zaltauskaite	Veterinary antibiotics as an environmental threat for forage crops: Tetracycline (TC) and ciprofloxacin (CIP) impact on oilseed rape (<i>Brassica napus</i>)
P-39. Daylan Pritchard	Evaluating the actions of nitrate, nitrite and ammonia using salmonid epithelial cell lines

29th August

29th August	
P-40. Jae-Seong Lee	Synergistic adverse effects of microfibers and freshwater acidification on host-microbiota interactions in the water flea <i>Daphnia magna</i>
P-41. Yuji Oshima	No vector effect of polystyrene microplastics on the accumulation of chlorobenzenes in Japanese medaka (<i>Oryzias latipes</i>)
P-42. (S) Elizabeth Everett	Microplastics as a disturbance to food web dynamics in Texas Gulf Coastal Bays
P-43. Kei Nakayama	Investigating the effects of virgin or recycled polypropylene microplastics on fish growth
P-44. Te-Hao Chen	Microplastic ingestion in the anemonefish <i>Amphiprion ocellaris</i> : Influence of concentration, odor, and light
P-45. (S) Kasumi Komatsu	The combined effect of organophosphate pesticide chlorpyrifos and microplastics on medaka behavior
P-46. (S) Miharū Tokunaga	Adsorption of polycyclic aromatic hydrocarbons on microplastics and their desorption in simulated intestinal fluids
P-47. (S) Daniel Christian Wijaya	Uptake and depuration kinetics of aged polyethylene microplastics in Java medaka (<i>Oryzias javanicus</i>) through quantification of actual plastic concentration using μ FT-IR
P-48. Seiichi Uno	Evaluations of effects in marine amphipod, <i>Ptilohyale barbicornis</i> , absorbed microplastics through feeding
P-49. Seiichi Uno	Inductions of chondrodysplasia in fish larvae hatched from embryos exposed oxygenated polycyclic aromatic hydrocarbons
P-50. (S) Woo-Seon Song	Molecular toxicological characterization of the novel AHR2 in cats: Comparative insights with AHR1
P-51. Jairo Falla-Angel	Stress reduction with co-culture of <i>Miscanthus x giganteus</i> and <i>Pelargonium x hortorum</i> in a Pb-contained soil to improve biomass production
P-52. (Y) Daishi Inoue	Avoidance behavior of fish to anesthetic agent MS-222 in euthanasia treatment
P-53. (Y) Yuki Takai	Behavioral diversity and sample size optimization in medaka fish behavioral tests
P-54. Jurate Zaltauskaite	Effects of elevated temperature and decreased water pH on tetracycline toxicity to <i>Lemna minor</i>
P-55. Gen Kume	Effect of global warming on population dynamics of a critically endangered Ryukyu-ayu <i>Plecoglossus altivelis ryukyuensis</i> in Amami-Oshima Island, southern Japan