

Program of ICoEHS-2023

Theme: Innovative Strategies for Addressing Environmental Issues and Developing Therapeutic Solutions

2023, Dec. 07 (Thu.)

12:30-13:00 **Registration**

13:00-13:20 **Opening Ceremony & Welcoming Address**

SYMPOSIUM I

Title: Microplastics in Environment: Global Treat and Challenges

Chair: Dr Youngmi Lee (Sangmyung Univ., Korea)

13:20-13:50 **Dr. Chang-Bum Jeong, Incheon National University, Korea**
Biological behavior of micro- and nanoplastics in aquatic organisms: From uptake to toxicity

13:50-14:20 **Dr. Tae-Yong Jeong, Hankuk University of Foreign Studies, Korea**
Studies on metabolic dysregulation in *Daphnia magna* by the exposures to micro-plastics and -pollutants

14:20-14:50 **Dr. June-Woo Park, Korea Institute of Toxicology, Korea**
Ecological risk assessment of microplastics in deep sea water with a consideration of environmentally relevant size and shape

14:50-15:10 **Coffee Break & Poster Social & Booth Tour**

YOUNG SCIENTIST SESSION I

Chair: Dr. Kyung Taek Rim (KOSHA, Korea)

15:10-15:30 **Junho Park, Korea University**
Beta-cyfluthrin impairs implantation by causing defects in mitochondrial function and producing ROS in porcine trophectoderm and luminal epithelial cells

15:30-15:50 **Taeyeon Hong, Sungkyunkwan University**
Exposure to propanil causes developmental defects including neurotoxicity and cardiotoxicity in zebrafish transgenic models

15:50-16:00 **Coffee Break & Poster Social & Booth Tour**

SYMPOSIUM II

Title: Nanomaterials for Sensing and Drug Delivery Platforms

Chair: Dr. Eun Hee Jeoung (Gangneung-Wonju Nat'l Univ., Korea)

16:00-16:30 **Dr. Moon Il Kim, Gachon University, Korea**
Highly efficient biosensing via active site engineered nanozymes

16:30-17:00 **Dr. Khaled AbouAitah, Egypt National Research Center, Egypt**
Smart drug delivery systems as nanomedicine platform for fighting diseases: Cancer, infection diseases, and bone regeneration medicine

17:00-17:30 **Dr. Dae-Young Park, Chungbuk National University, Korea**
CEET 3D structural analysis of aptamer and diagnostic platforms for detecting hepatocellular carcinoma

17:30-18:00 **상임이사회 (Board meeting)**

18:00- **Gala Diner**

2023, Dec. 08 (Fri.)

YOUNG SCIENTIST SESSION II

Chair: Dr. Whasun Lim (Sungkyunkwan Univ., Korea)

9:00-09:20	Je-Won Yoo, National Sangmyung University, Korea Toxicological interactions between methylmercury and polystyrene microplastics on brackish water flea <i>Diaphanosoma celebensis</i> : based on toxicity test and multi-omics analysis
09:20-09:40	Hyoryong Lee, DGIST Intestine therapeutic agent delivery micro-structure with magnetic targeting ability
09:40-10:00	Coffee Break & Poster Social & Booth Tour

SYMPOSIUM III

Title: Advanced methodology in Environmental toxicology (CEET session)

Chair: Dr. Ji-Young Ahn (Chungbuk Nat'l Univ., Korea)

10:00-10:30	Dr. Jae-Won Huh, National Primate Research Center, Korea Worldwide issues of primate resources and their applications.
10:30-11:00	Dr. Ji Hoon Seo, Korea University, Korea Breathing Beyond the Crisis: Unveiling Air Pollution's Resurgence and Health Ramifications Post-Pandemic
11:00-11:30	Dr. Ramu Danddugudumula, Weizmann Institute of Science, Israel Microtubule dynamics involved in the developmental morphogenesis of <i>Leishmania</i>
11:30-12:00	Coffee Break & Poster Social & Booth Tour
12:00-13:10	Lunch

PLENARY LECTURE

Chair: Dr. Eun-Joo Kim (DGIST, Korea)

13:10-14:00	Dr. Dong-Hyuk Yeom, Korea Institute of Toxicology, Korea The Past, Present, and Future of Ecotoxicology Research
-------------	--

SYMPOSIUM IV

Title: Advances in environmental health science: from pathophysiology to therapeutic strategy

Chair: Dr. Young-Rok Seo (Dongguk University, Korea)

14:00-14:30	Dr. Soo-Youl Kim, National Cancer Center, Korea Obesity and Cancer: Clinical Trial I Started for Solid Cancers by Targeting Lipid Catabolism
14:30-15:00	Dr. Kyuho Lee, Atomics AI, Korea AI-powered protein engineering
15:00-15:30	Dr. Sang-Hyuk Lee, Rutgers University, USA Single-molecule study of DNA bending by mitochondrial transcription factor A (TFAM)
15:30-15:50	Coffee Break

KoEHS Annual Membership Meeting

15:50-17:00	General Assembly Poster Presentation Awards Closing remark
-------------	---