

# Program of ICoEHS-2021

## Theme:

Nanoparticles and Toxicity in Therapeutic delivery  
: Recent developments and Future prospects

2021, Dec. 02

09:30-09:50

Registration

09:50-10:00

Opening Ceremony & Welcoming Address

### YOUNG SCIENTIST SESSION I

Session Chair: Dr. Youn-Jung Kim (Incheon Nat'l Univ., KOREA)

10:00-10:15

**Dr. Yuna Ha, Incheon National University**

Development of blue carbon wellness materials for recycling of disturbing species in mudflat ecosystem

10:15-10:30

**Dr. Seonghwan Park, Korea Institute of Toxicology**

Effects of short-term chemical exposure to freshwater indigenous species in artificial streams: a case study to simulate real chemical accidents

10:30-10:40

Coffee Break & Poster Social & Booth Tour

### SYMPOSIUM I

Title: Toxicological Risk Assessment and Testing Strategies

Session Chair: Dr. Mi-Kyung Song (Korea Institute Toxicology, Korea)

10:40-11:05

**Eun-Suk Lim, KLSBio**

Guidance on the Good laboratory practice (GLP) system for Toxicity Assays

11:05-11:30

**Dr. Sang-Hee Lee, HPBIO Inc.**

The past, present and future of health related direct-to-consumer (DTC) genetic tests

11:30-11:55

**Dr. Hong Nam Kim, Brain Science Institute, KIST**

Brain-on-a-Chip Technology for Assessing Toxicity of Environmental Nanoparticles

11:55-13:00

Lunch

### SYMPOSIUM II

Title: Nanomaterials for Sensing and Drug Delivery Platforms

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

13:00-13:25

**Dr. Ja-Hyoung Ryu, Ulsan National Institute of Science and Technology**

Supramolecular Approach for New Targeted Disease Therapy: from Assembly to Nanomedicine

13:25-13:50

**Dr. Youngdo Jeong, Korea Institute of Science and Technology**

Nano-Building Blocks for Biofunctional Structures

13:50-14:15

**Dr. Myoung-Hwan Park, Sahmyook University**

US-mediated drug delivery platform to effectively treat brain tumors by overcoming the blood-brain barrier

14:15-14:20

Coffee Break & Poster Social & Booth Tour

### SYMPOSIUM III

Advanced methodology in Environmental toxicology (CEET session)

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

14:20-14:30

**Dr. Simranjeet Sing Sekhon (CEET, Chungbuk Nat'l Univ., Korea)**

Modifications of mRNA vaccine structural elements for improving mRNA stability and translation efficiency

14:30-14:40	<b>Dr. Gna Ahn (CEET, Chungbuk Nat'l Univ., Korea)</b> Nanobarcode and colorimetric reverse transcription loop-mediated isothermal amplification (cRT-LAMP)
14:40-14:50	<b>Dr. Imisi Sam Awala (CEET, Chungbuk Nat'l Univ., Korea)</b> Verrucomicrobial methanotrophs use a copper membrane monooxygenase to oxidize acetone
14:50-15:00	<b>Coffee Break &amp; Poster Social &amp; Booth Tour</b>
<b>YOUNG SCIENTIST SESSION II</b>	
<b>Session Chair: Dr. Hye-Jung Kim (Osong Medical Innovation Foundation, Korea)</b>	
15:00-15:15	<b>Hasan Al Faruque, DGIST Well Aging Research Center, Research Scientist</b> Bioengineered extracellular vesicle as a potential carrier of paclitaxel in pancreatic cancer xenograft model
15:15-15:30	<b>Park, Yuri, Sahmyook University</b> Development of self-healing composite materials with ultra-low friction
<b>KoEHS Annual Membership Meeting</b>	
15:30-	<b>General Assembly</b> <b>Poster Presentation Awards</b> <b>Closing remark</b>