

Program

Time: January 09-11, 2023

Venue: Hotel emisia Sapporo, Japan

Registration

Time: 09:00-21:00, January 08, 2023 (Sunday); Place: Lobby, 1F, Hotel emisia Sapporo

Opening Ceremony & Keynote Forum (Part I)

Opening Ceremony

Time: 09:00-09:10, January 09, 2023 (Monday); Place: Pastel, 2F, Hotel emisia Sapporo

Keynote Forum

Time: 09:10-12:15, January 09, 2023 (Monday); Place: Pastel, 2F, Hotel emisia Sapporo

Moderator	Dr. Michael Strupp , Professor, Ludwig Maximilians University, Germany
09:10-09:15	Moderator's Introduction
09:15-09:45	Title: <i>Turning Lefties to Righties – Development of CRISPR/Cas9 Genome Editing in Mollusc and Its Application to Medicine</i> Dr. Reiko Kuroda , Professor, Chubu University, Japan
09:45-10:15	Title: <i>Current Treatment of Vertigo and Ataxia</i> Dr. Michael Strupp , Professor, Ludwig Maximilians University, Germany
10:15-10:45	Title: <i>Neural Bioholography as Remote Management of Neural Wave Optics via Refraction in the Neural Scalar Wave Diffraction Grating</i> Dr. Irene Caesar , President, Wave Genome LLC, USA
10:45-11:15	Title: <i>E Pluribus Unum: Improving Knowledge on Chemical Systems through Data Fusion</i> Dr. Federico Marini , Professor, Sapienza University of Rome, Italy
11:15-11:45	Title: <i>Intra-Tumoral Genetic Heterogeneity: Biological and Therapeutic Evolution and Implications</i> Dr. Adel K. El-Naggar , Associate Professor, University of Texas M. D. Anderson Cancer Center, USA
11:45-12:15	Title: <i>Microstructural Approach for Healthy Food Matrix Design</i> Dr. Pedro Bouchon , Professor, Pontifical Catholic University of Chile, Chile

Opening Ceremony & Keynote Forum (Part II)

Opening Ceremony

Time: 14:00-14:10, January 09, 2023 (Monday); Place: Pastel, 2F, Hotel emisia Sapporo

Keynote Forum

Time: 14:10-17:15, January 09, 2023 (Monday); Place: Pastel, 2F, Hotel emisia Sapporo

Moderator	Dr. Michael Owen , Dean and Professor, Faculty of Education, Brock University, Canada
14:10-14:15	Moderator's Introduction
14:15-14:45	Title: <i>University Ranking Systems and Lesser Developed Nations; A Case Study of Ghana</i> Dr. Michael Owen , Dean and Professor, Faculty of Education, Brock University, Canada

- 14:45-15:15 **Title:** *Are We Getting the Most from Our Oceans?*
Mr. James Fanshawe, Chairman, UK's Maritime Autonomous Systems Regulatory Working Group, UK
- 15:15-15:45 **Title:** *Resilient Energy Systems for Waterfront Infrastructures and Maritime Transportation Electrification for Smart Cities*
Dr. Hossam A. Gabbar, PEng, RAMSP Fellow, Director of Smart Energy Systems Lab, Ontario Tech University, Canada
- 15:45-16:15 **Title:** *Strategy for Climate Crisis without Environmental Concerns*
Dr. Kenji Sorimachi, Emeritus Professor, Dokkyo Medical University, Japan and President, Environmental Engineering, Co., Ltd., Japan
- 16:15-16:45 **Title:** *One Catalyst in Multiple Steps in A One-pot Fashion - Sequentially Palladium-catalyzed Processes for the Synthesis of Functional Molecules*
Dr. Thomas J. J. Muller, Chair Professor of Organic Chemistry, Heinrich-Heine-Universität Düsseldorf, Germany
- 16:45-17:15 **Title:** *Universitas Digitalis – A Concept of a Future University*
Dr. Christoph Meinel, President and CEO, Hasso Plattner Institute for IT-Systems Engineering, Germany

The 12th World Gene Convention

WGC 01: Genetics and Genomics

Time: 14:00-15:25, January 09, 2023 (Monday); Place: Azalea, 3F, Hotel emisia Sapporo

- Chair** **Dr. Yanping Zhang**, Professor, University of North Carolina at Chapel Hill, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *An Intergenic rs9275596 Polymorphism on Chr. 6p21 Is Associated with Multiple Sclerosis in Latvians*
Dr. Jolanta Kalnina, Head of Multiple Sclerosis Center, University of Latvia, Latvia
- 14:25-14:45 **Title:** *Tumor Suppressor p53 in Metabolism Control and Cancer Prevention*
Dr. Yanping Zhang, Professor, University of North Carolina at Chapel Hill, USA
- 14:45-15:05 **Title:** *The Role of Histone Mutations in Human Disease*
Dr. Kui Ming Chan, Associate Professor, City University of Hong Kong, Hong Kong, China
- 15:05-15:25 **Title:** *Multi-Omics Molecular Subtyping of Ovarian High-Grade Serous Carcinoma*
Dr. Xin Wang, Associate Professor, The Chinese University of Hong Kong, Hong Kong, China

WGC 02: Non-Human Genetics and Genomics Models, Next Generation Sequencing

Time: 15:25-17:50, January 09, 2023 (Monday); Place: Azalea, 3F, Hotel emisia Sapporo

- Chair** **Dr. Pei-Yuan Qian**, Chair Professor, Hong Kong University of Science and Technology, Hong Kong, China
- Co-chair** **Dr. Soon-Kwon Kim**, President, International Corn Foundation, South Korea
- 15:25-15:30 **Chair's Introduction**
- 15:30-15:50 **Title:** *Insights from Algal Genomes: From Salt Tolerance to Endogenous Viral Element Retention*
Dr. David R. Nelson, Senior Scientist, New York University Abu Dhabi, UAE

- 15:50-16:10 **Title:** *Hologenome of Deep-Sea Chemosynthetic Ecosystems*
Dr. Pei-Yuan Qian, Chair Professor, Hong Kong University of Science and Technology, Hong Kong, China
- 16:10-16:30 **Title:** *Improving Food Safety through Whole Genome Sequencing and Machine Learning*
Dr. Pimlapas Leekitcharoenphon, Researcher, Technical University of Denmark, Denmark
- 16:30-16:50 **Title:** *12 Colors of Streptavidin-Fluorescent Proteins (SA-FP): A Versatile Tool to Visualize Genetic Information in Single-Molecule DNA*
Dr. Kyubong Jo, Professor, Sogang University, South Korea
- 16:50-17:10 **Title:** *New Leafy-bm3 Maize Breeding for Super Bio-Energy Ethanol Production against Climate Changes*
Dr. Soon-Kwon Kim, President, International Corn Foundation, South Korea
- 17:10-17:30 **Title:** *Interplay between Viral Synergism and Phalaenopsis Orchid*
Dr. Na-Sheng Lin, Distinguished Research Fellow, Institute of Plant and Microbial Biology, Academia Sinica, Taiwan
- 17:30-17:50 **Title:** *I Insights into Disease Control in Marine Fish Farms: Digital Droplet PCR-Based eDNA Tool for Monitoring Cryptocaryonosis*
Ms. Hin Hung Tsang, The Chinese University of Hong Kong, Hong Kong, China

WGC 03: Pathology and Physiology

Time: 14:00-16:55, January 09, 2023 (Monday); Place: Crown, 3F, Hotel emisia Sapporo

- Chair** **Dr. Adel K. El-Naggar**, Associate Professor, University of Texas M. D. Anderson Cancer Center, USA
- Co-chair** **Dr. Soo-Min Ok**, Professor, Pusan National University, South Korea
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *Epidemiology of COVID – 19 in the State of Sergipe/Brazil and Its Relationship with Social Indicators*
Dr. Larissa Marrocos Oliveira, Professor, University of Tiradentes, Brazil
- 14:25-14:45 **Title:** *Targeted Molecular Therapy of Salivary Duct Carcinoma*
Dr. Adel K. El-Naggar, Associate Professor, University of Texas M. D. Anderson Cancer Center, USA
- 14:45-15:05 **Title:** *Pathophysiology and Diagnostics of Ventral and Incisional Hernias*
Dr. Rudolf Schrittwieser, Head of Department, Abteilung für Chirurgie, LKH Hochsteiermark/Standort Leoben, Austria
- 15:05-15:25 **Title:** *Histopathological Classification of Breast Cancer Images Using a Multi-Scale Input and Multi-Feature Network*
Dr. Migyung Cho, Professor, Tongmyong University, South Korea
- 15:25-15:45 **Title:** *Studies on Gene Regulation in Aviation Medicine and Their Application in Aircraft Accident Investigation*
Dr. Michael J. Schwerer, Anatomic Pathologist & Forensic Pathologist, Air Force Centre of Aerospace Medicine, Germany
- 15:45-15:55 **Coffee Break**

- 15:55-16:15 **Title:** *Candida Infection Associated with Salivary Gland - A Narrative Review*
Dr. Soo-Min Ok, Professor, Pusan National University, South Korea
- 16:15-16:35 **Title:** *Rare Complication of Diffuse Large B Cell Lymphoma: A Case Presentation and Literature Review*
Dr. Shih-Wei Chiang, Researcher, Taichung Veterans General Hospital, Chiayi Branch, Taiwan
- 16:35-16:55 **Title:** *Brucellosis in Humans and Animals in Kyrgyzstan*
Dr. Murat Abdyraev, Researcher, Kyrgyz Veterinary Research Institute, Kyrgyzstan

WGC 04: Advances in Molecular & Cell Biology

Time: 10:50-12:55, January 10, 2023 (Tuesday); Place: Azalea, 3F, Hotel emisia Sapporo

- Chair** **Dr. Pengbo Zhou**, Professor, Weill Medical College of Cornell University, USA
- Co-chair** **Dr. Fumiaki Uciuni**, Professor, Tokyo University of Science, Japan
- 10:50-10:55 **Chair's Introduction**
- 10:55-11:15 **Title:** *Evolution of Resistance to Irinotecan in Cancer Cells Involves Generation of Topoisomerase-Guided Mutations in Non-Coding Genome That Reduces the Chances of DNA Breaks*
Dr. Michael Y. Sherman, Professor, Department of Molecular Biology, Ariel University, Israel
- 11:15-11:35 **Title:** *Dissecting the Functional Complexity of Cellular Proteins by Protein Knockout*
Dr. Pengbo Zhou, Professor, Weill Medical College of Cornell University, USA
- 11:35-11:55 **Title:** *The p 207 S LysRS–Ap4A Pathway in Health and Diseases*
Dr. Ehud Razin, Professor, Hebrew University of Jerusalem, Israel
- 11:55-12:15 **Title:** *Translocation of HSP47 and Generation of Mitochondrial Reactive Oxygen Species in Human Neuroblastoma SK-N-SH Cells Following Electron and X-ray Irradiation*
Dr. Hideyuki J. Majima, Professor, Wallailak University, Thailand
- 12:15-12:35 **Title:** *Molecular Mechanism That Controls Expression of GGAA-Motif Containing Promoter-Driven Genes*
Dr. Fumiaki Uciuni, Professor, Tokyo University of Science, Japan
- 12:35-12:55 **Title:** *iPS Cell Derived-RPE in Retinal Degeneration: Recent Advancements in Japan*
Dr. Tadao Maeda, General Manager, Department of R and D, Vision Care Cell Therapy, Inc., Research Center, Kobe Eye Hospital, Japan

WGC 05: Neuroscience and Neurobiology

Time: 14:00-15:05, January 10, 2023 (Tuesday); Place: Azalea, 3F, Hotel emisia Sapporo

- Chair** **Dr. Hernando Lopez-Bertoni**, Assistant Professor, Johns Hopkins School of Medicine, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *Monascus Purpureus Fermented Product Ameliorates Learning and Memory Impairment in the Amyloid Precursor Protein Transgenic J20 Mouse Model of Alzheimer's Disease*
Dr. Chien-Li Chen, Assistant Professor, National Taiwan Ocean University, Taiwan

- 14:25-14:45 **Title:** *Thrombin Preconditioning Improves the Therapeutic Efficacy of Mesenchymal Stem Cells in Severe Intraventricular Hemorrhage Induced Neonatal Rats*
Dr. So Yoon Ahn, Professor, Sungkyunkwan University School of Medicine, South Korea
- 14:45-15:05 **Title:** *Nanoparticle Delivery of miRN as to Inhibit GBM Stem Cells*
Dr. Hernando Lopez-Bertoni, Assistant Professor, Johns Hopkins School of Medicine, USA

WGC 06: Biotherapy & Biomedical Engineering

Time: 15:05-16:50, January 10, 2023 (Tuesday); Place: Azalea, 3F, Hotel emisia Sapporo

- Chair** **Dr. Giulio Severi**, Researcher, IZSUM "Togo Rosati", Italy
- 15:05-15:10 **Chair's Introduction**
- 15:10-15:30 **Title:** *The Role of Autogenous Vaccines in the Fight against Antimicrobial Resistances (Amr) in Compliance with a True "One Health" Approach*
Dr. Giulio Severi, Researcher, IZSUM "Togo Rosati", Italy
- 15:30-15:50 **Title:** *Identify Patterns and Risk Factors of Post-COVID-19 Vaccination Side Effects*
Dr. Wei Wang, Assistant Professor, Brigham and Women's Hospital, Harvard Medical School, USA
- 15:50-16:10 **Title:** *A Personalized, Non-Viral Gene Therapy Approach to Treat Age-Related Macular Degeneration: Safety and Efficiency Studies of the GMP-Validated Gene Therapy Medicinal Product*
Dr. Martina Kropp, Senior Researcher, University of Geneva, Switzerland
- 16:10-16:30 **Title:** *Correlating Genotype and Phenotype Data to Generate Personalized Solutions to Improve Long COVID Symptoms*
Dr. Vincent Chun Xin Gao, Chief Technology Officer, Govita Tech Limited, Hong Kong, China
- 16:30-16:50 **Title:** *Association of Atopy in Biologically Treated Spondyloarthritis Patients - Searching for a New Helper in Choosing the Right Treatment*
Dr. Georgiana Strugariu, Senior Physician, "Grigore T. Popa" University of Medicine and Pharmacy of Iasi, Romania

WGC 07: Microbiology, Microbiome and Antimicrobial Resistance

Time: 09:00-11:05, January 11, 2023 (Wednesday); Place: Azalea, 3F, Hotel emisia Sapporo

- Chair** **Dr. Patricia Y Lopez Casaperalta**, Program Director, Catholic University of Santa Maria, Peru
- 09:00-09:05 **Chair's Introduction**
- 09:05-09:25 **Title:** *The Role of Urinary Microbiome in Benign Prostate Hyperplasia/Lower Urinary Tract Symptoms*
Dr. Seong Hyeon Yu, Assistant Professor, Chonnam National University Hospital, South Korea
- 09:25-09:45 **Title:** *Identification and Characterization of Peruvian Native Bacterial une 15-16, 2016 Philadelphia, Strains as Bioremediation of Hg-polluted Water and Soils due to Artisanal and Small-Scale Gold Mining in the Secocha Annex, Arequipa*
Dr. Patricia Y Lopez Casaperalta, Program Director, Catholic University of Santa Maria, Peru

- 09:45-10:05 **Title:** *The Gut-Skin Microbiota Axis and Its Role in Diabetic Wound Healing - A Review Based on Current Literature*
Dr. Bharati Kadamb Patel, Postdoctoral Research Fellow, National University of Singapore, Singapore
- 10:05-10:25 **Title:** *Development of HRM for the Detection of Firmicutes & Bacteroidetes to Support Microbiome-Based Therapy*
Dr. Kadamb Patel, Head, Centre for Research Opportunities in Plant Science, Temasek Polytechnic, Singapore
- 10:25-10:45 **Title:** *Direct Helicobacter Pylori Detection through Biosensors Based on SPR and DR LPG in Optical Fiber*
Dr. Georgi Dyankov, Professor, Institute for Optical Material and Technologies, Bulgarian Academy of Science, Bulgaria
- 10:45-11:05 **Title:** *Potential of Nano-Formulated Metarhizium Anisopliae for Control of Red Palm Weevil, Rhynchophorus Ferrugineus*
Dr. Wahizatul Afzan Azmi, Associate Professor, Universiti Malaysia Terengganu, Malaysia

WGC 08: Novel Biodrugs, Bio-pharmacy and Drug Science

Time: 11:05-13:50, January 11, 2023 (Wednesday); Place: Azalea, 3F, Hotel emisia Sapporo

Chair **Dr. Graeme Melville**, Associate Professor, University of New South Wales, Australia

Co-chair **Dr. Chenxu Yu**, Associate Professor, Iowa State University, USA

11:05-11:10 **Chair's Introduction**

11:10-11:30 **Title:** *Simulating Drug Delivery in Vitro During Micro Balloon Intervention in the Liver*

Mr. Junichi Fukamizu, Education Advisor, Health Professions Education, Terumo Corporation, Japan

11:30-11:50 **Title:** *Targeted Alpha Therapy for Cancer*

Dr. Graeme Melville, Associate Professor, University of New South Wales, Australia

11:50-12:10 **Title:** *In Silico Study of Nanocarriers for Gene Therapy based on Polycations as Polyplexes*

Dr. Tudor Vasiliu, Researcher, Centre of Advanced Research in Bionanoconjugates and Biopolymers, "Petru Poni" Institute of Macromolecular Chemistry, Romania

12:10-12:30 **Title:** *Design and Characterization of Nanocarriers for Gene Therapy based on Polycations as Polyplexes*

Dr. Ioan-Andrei Dascalu, Postdoctoral Researcher, Centre of Advanced Research in Bionanoconjugates and Biopolymers, "Petru Poni" Institute of Macromolecular Chemistry, Romania

12:30-12:50 **Title:** *Insulin Resistance, Oral Inflammation and Melatonin*

Dr. Doris Hissako Matsushita, Professor, Sao Paulo State University, Brazil

12:50-13:10 **Title:** *Artificial Virus-Like Nanocarriers (AVNs) as Oral Vaccine Delivery Vehicles*

Dr. Chenxu Yu, Associate Professor, Iowa State University, USA

13:10-13:30 **Title:** *Production and Evaluation of Two Antibiotics of Streptomyces Coelicolor A3 (2), Prodigiosin and Actinorhodin under Solid State Fermentation, Using Micro-Porous Culture*

Dr. Teresa Matoso M. Victor, ISPTEC, Higher Polytechnic Institute of Science and Technology, Angola

13:30-13:50 **Title:** *Juglone from Walnut Produces Cardioprotective Effects against Isoproterenol-Induced Myocardial Injury in SD Rats*

Dr. Mohammed Alasmary, Assistant Professor, Najran University, Saudi Arabia

WGC 09: Video Forum

- 1 **Title:** *The Brain in Winter: microRNA and Metabolic Arrest*
Dr. Kenneth B. Storey, Professor, Carleton University, Canada
- 2 **Title:** *Procedural Requirements and Recommendations for Multiplex Immunofluorescence Tyramide Signal Amplification Assays to Support Translational Oncology Studies*
Dr. Edwin Roger Parra, Associate Professor, MD Anderson Cancer Center, University of Texas, USA
- 3 **Title:** *An Extended High Frequency Ultrasound Protocol for Detection of Vessel Wall Inflammation*
Dr. Helene Zachrisson, Associate Professor, Department of Clinical Physiology, Linköping University Hospital, Sweden
- 4 **Title:** *Association of CHI3L1 Gene Variants with YKL-40 Levels and Hypertension Incidence: A Population-Based Nested Case-Control Study in China*
Dr. Tian Xu, Associate Research Fellow, Affiliated Hospital of Nantong University, China
- 5 **Title:** *Application of Macrogenomic Second-Generation Sequencing in Neonatal Infectious Diseases*
Dr. Xueping Zhu, Professor, Children's Hospital of Soochow University, China
- 6 **Title:** *Detection of Animal Carriers of Leptospira by lipL32 rtPCR*
Dr. Camila Hamond, ORISE Postdoc Researcher, National Veterinary Services Laboratories, United States Department of Agriculture, USA
- 7 **Title:** *Relevant Model Systems to Determine the Effects and Mechanisms of Topical Chemotherapeutics*
Dr. Ravi P. Sahu, Assistant Professor, Wright State University, USA
- 8 **Title:** *Nature Has the Answers: Discovering and Validating Natural Bioactives for Human Health*
Dr. Martin Kussmann, Mentor, German Entrepreneurship, Germany
- 9 **Title:** *Candidate Gene Sequencing and Development of Single Nucleotide Polymorphism Markers Linked to Carotenoids in Manihot Esculenta Crantz (Cassava)*
Dr. Lovina Iyandu Udoh, Lecturer, Akwa Ibom State University, Nigeria
- 10 **Title:** *Extended Nucleic Acid Memory, an Emerging Memory Technology*
Dr. Saptarshi Biswas, Iowa State University, USA
- 11 **Title:** *Long-Read Sequencing Settings for Efficient Structural Variation Detection Based on Comprehensive Evaluation*
Dr. Hongzhe Guo, Assistant Professor, Harbin Institute of Technology, China
- 12 **Title:** *Effects of Metabolic Risk Factors on DBS Treatment for Depression and Sleep Disorders in Parkinson's Disease*
Dr. Longping Yao, Heidelberg University, Germany
- 13 **Title:** *Genetic Structure of Selected Finfish Populations in the Galapagos Islands, Ecuador*
Dr. Zohrah Sulaiman, Professor, Universiti Teknologi Brunei, Brunei Darussalam
- 14 **Title:** *Glial Fibrillary Acidic Protein: A Biomarker and Drug Target for Alzheimer's Disease*
Dr. Akshatha Ganne, University of Arkansas for Medical sciences, USA
- 15 **Title:** *Effects of Different Antiseptics on Wound Healing and Analysis of Its Potential Mechanism*
Mr. Jianghe Zhang, Military Doctor, Army Medical University, China

- 16 **Title:** *Effect of Row Spacing on Quinoa (*Chenopodium Quinoa*) Growth, Yield, and Grain Quality under a Mediterranean Climate*
Dr. Lior Rubinovich, Senior Researcher, Northern Agriculture R&D, MIGA-Galilee Research Institute, Israel

The 12th Annual World Congress of Neurotalk

NT 01: Advanced Platform Neurotechnology Gallery

Time: 14:00-15:25, January 09, 2023 (Monday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

- Chair** **Dr. Taisuke Sakaki**, Research Director, Kyushu Sangyo University, Japan
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *Pain and the Brain*
Dr. Olfat Zekry, Pro-Vice-Chancellor, University of Oxford, UK
- 14:25-14:45 **Title:** *Brain Activity Tests of Rehabilitation Robot in Primary Walking Pattern Training for SCI Patient at Home*
Dr. Taisuke Sakaki, Research Director, Kyushu Sangyo University, Japan
- 14:45-15:05 **Title:** *Empowering People with Dementia Using Intelligent Technology*
Dr. Hanan AboJabel, Fellow, University Medical Center Göttingen, Germany
- 15:05-15:25 **Title:** *Bispectral Analysis of Electroencephalogram Can Detect Insufficiency of Analgesia During Surgery under General Anesthesia*
Dr. Satoshi Hagihira, Professor, Kansai Medical University, Japan
- 15:25-15:35 **Coffee Break**

NT 02: Cellular and Molecular Neuroscience

Time: 15:35-18:20, January 09, 2023 (Monday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

- Chair** **Dr. Mary Ann Scott**, Director, University of Arkansas for Medical Sciences, USA
- Co-chair** **Dr. Kensuke Ikenaka**, Assistant Professor, Osaka University Graduate School of Medicine, Japan
- 15:35-15:40 **Chair's Introduction**
- 15:40-16:00 **Title:** *A Natural History of Skills: From Lamprey to Parkinson's Disease*
Dr. Thomas Boraud, Director, University of Bordeaux, France
- 16:00-16:20 **Title:** *The Effects of Facial Exercise with Resonance Vocalization for Mental Health in Postpartum Women-Pilot Study*
Dr. Rumiko Okamoto, Project Assistant Professor, University of Tsukuba, Japan
- 16:20-16:40 **Title:** *The Utility of Pharmacogenetics and Multidisciplinary Teams in Neurodevelopmental Disorders*
Dr. Mary Ann Scott, Director, University of Arkansas for Medical Sciences, USA
- 16:40-17:00 **Title:** *DRG2 Deficient Mice Exhibit Impaired Motor Behaviors with Reduced Striatal Dopamine Release*
Dr. Chang Man Ha, Principal Researcher, Korea Brain Research Institute, South Korea
- 17:00-17:20 **Title:** *Conformational State of the Monomeric Alpha-Synuclein Imparts the Synucleinopathies*
Dr. Kensuke Ikenaka, Assistant Professor, Osaka University Graduate School of Medicine, Japan

- 17:20-17:40 *Title: Neuroprotective Crosstalk between Neurotrophic and Innate Immune Receptors in the Lipid Rafts*
Drs. Yu Fukuda, Researcher, Fujita Health University School of Medicine, Japan
- 17:40-18:00 *Title: From Tu's Method to Cell (EV) Therapy in Spinal Cord Injury*
Dr. Yuan-Kun Tu, Professor, E-DA Hospital, Taiwan
- 18:00-18:20 *Title: Embodied Learning for Computational Thinking Education through Augmented Reality*
Dr. Kyunghbin Kwon, Associate Professor, Indiana University, USA

NT 03: Traumatic Brain Injury

Time: 14:00-15:25, January 09, 2023 (Monday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

- Chair** **Dr. Sophie Blanchet**, Associate Professor, University Paris Cité, France
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 *Title: Chronic Traumatic Neurodegeneration*
Dr. Barry D Jordan, Chief Medical Officer, Rancho Los Amigos National Rehabilitation Center, USA
- 14:25-14:45 *Title: Episodic Memory Functioning in Traumatic Brain Injury Sustained in Aging*
Dr. Sophie Blanchet, Associate Professor, University Paris Cité, France
- 14:45-15:05 *Title: The Brain-Heart Cross-Talk. Current Knowledge and Further Perspective*
Dr. Wojciech Dabrowski, Head, Medical University of Lublin, Poland
- 15:05-15:25 *Title: Brain-Lung Crosstalk and Mechanical Ventilation in Neurocritical Patients*
Dr. Dorota Siwicka Gieroba, Professor, Medical University in Lublin, Poland
- 15:25-15:35 **Coffee Break**

NT 04: Behavioral and Cognitive Neuroscience

Time: 15:35-17:40, January 09, 2023 (Monday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

- Chair** **Dr. Julia Milner**, Professor, EDHEC Business School, France
- Co-chair** **Dr. Catherine Brodeur**, Associate Professor, Montreal University Geriatrics Institute, Canada
- 15:35-15:40 **Chair's Introduction**
- 15:40-16:00 *Title: Stress and Health*
Dr. Deog-Hwan Oh, Professor, Kangwon National University, South Korea
- 16:00-16:20 *Title: H-FABP Levels and Psycho-Emotional Improvement of CABG Patients during Cardiac Rehabilitation*
Dr. Al Namat Razan, Assistant Professor, "Grigore T. Popa" University of Medicine and Pharmacy of Iasi, Romania
- 16:20-16:40 *Title: How to Have Empathetic Leadership Conversations*
Dr. Julia Milner, Professor, EDHEC Business School, France
- 16:40-17:00 *Title: Primary and Secondary Progressive Aphasia in Posterior Cortical Atrophy*
Dr. Catherine Brodeur, Assistant Professor, Montreal University Geriatrics Institute, Canada
- 17:00-17:20 *Title: H-FABP Levels and Psycho-Emotional Improvement of CABG Patients during Cardiac Rehabilitation*
Dr. Maura Felea, "Grigore T. Popa" University of Medicine and Pharmacy of Iasi, Romania
- 17:20-17:40 *Title: Antioxidant Activities of Novel Peptides from Limosilactobacillus Reuteri Fermented Brown Rice: A Combined in Vitro and In Silico Study*
Mr. Nam-Hyeon Kim, Kangwon National University, South Korea

NT 05: Pain and Pain Management

Time: 09:00-10:25, January 10, 2023 (Tuesday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

Chair	Dr. Nikit Datta Kadam , Obstetrician and Gynaecologist, University Hospitals of Derby and Burton, UK
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>Modulation of Thalamocingulate Nociceptive Transmission by Targeting P2X7 Receptor</i> Dr. Bai Chuang Shyu , Researcher, Academia Sinica, Taiwan
09:25-09:45	Title: <i>Abdominal Pain in Pregnancy-Pitfalls in Diagnosis and Management</i> Dr. Nikit Datta Kadam , Obstetrician and Gynaecologist, University Hospitals of Derby and Burton, UK
09:45-10:05	Title: <i>Overview on Bladder Pain Syndrome based on Korean Study</i> Dr. Hoon Choi , Professor, The Korean Endourology Association, South Korea
10:05-10:25	Title: <i>The Role of Radiofrequency Ablation in the Treatment of Cervicogenic Headaches and Occipital Neuralgia</i> Dr. John F. Hamer , Assistant Professor, Medical College of Wisconsin, USA
10:25-10:35	Coffee Break

NT 06: Parkinson's Disease & Alzheimer's Disease and Dementia

Time: 10:35-12:20, January 10, 2023 (Tuesday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

Chair	Dr. Julie K. Andersen , Professor, Buck Institute, USA
10:35-10:40	Chair's Introduction
10:40-11:00	Title: <i>The Effect of Art Activity on Nonmotor Symptoms and Self-Efficacy in Parkinson's Disease</i> Dr. Ho-Ryong Yoo (Mrs. Hur WangJung Instead) , Professor, Daejeon University, South Korea
11:00-11:20	Title: <i>Elimination of Senescence Cells as a Therapeutic Avenue for Alzheimer's Disease</i> Dr. Julie K. Andersen , Professor, Buck Institute for Research on Aging, USA
11:20-11:40	Title: <i>Neutral Sphingolipids in CSF and Abnormal Innate Immunity Status of Patients with Parkinson's Disease</i> Dr. Tatsuro Mutoh , Professor, Fujita Health University Hospital, Japan
11:40-12:00	Title: <i>Miscommunication as a Key Upstream Culprit in the Pathogenesises of Major Neurocognitive Disorders</i> Dr. Law Andrew , Professor, Royal College of Surgeons in Ireland & University College Dublin (Malaysia Campus), Malaysia
12:00-12:20	Title: <i>Neuroprotective Activity of Selected Middle Eastern Wild Plants</i> Dr. Abdullatif Azab , Researcher, Eastern Plants Company, Israel

NT 07: Frontiers of Medical and Clinical Neurosciences

Time: 14:00-17:15, January 10, 2023 (Tuesday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

Chair	Dr. Irene Caesar , President, Wave Genome LLC, USA
Co-chair	Dr. Philipp von Gottberg , Medical Doctor, Katharinenhospital Stuttgart, Germany

14:00-14:05	Chair's Introduction
14:05-14:25	<i>Title: Diagnosis and Treatment of Hemodynamic Orthostatic Dizziness/Vertigo</i> Dr. Hyun Ah Kim , Associate Professor, Keimyung University School of Medicine, South Korea
14:25-14:45	<i>Title: Neural Bioholography as Remote Management of Neural Wave Optics via Refraction in the Neural Scalar Wave Diffraction Grating</i> Dr. Irene Caesar , President, Wave Genome LLC, USA
14:45-15:05	<i>Title: Vascular Anatomy for Cervical Spine Surgery</i> Dr. Takeshi Aoyama , Neurospine Surgeon, Teine Keijinkai Hospital, Japan
15:05-15:25	<i>Title: Central Pontine Myelinolysis Caused by Hypernatremia</i> Dr. Raquel Carvalho , Hospital de Braga, Portugal
15:25-15:45	<i>Title: Navigation-Guided Burr Hole Aspiration Surgery for Acute Cerebellar Infarction</i> Dr. Sung Don Kang , Professor, Wonkwang University Hospital, South Korea
15:45-15:55	Coffee Break
15:55-16:15	<i>Title: Combined Anticoagulation and Antiaggregation in Acute Cervical Artery Dissection</i> Dr. Philipp von Gottberg , Medical Doctor, Katharinenhospital Stuttgart, Germany
16:15-16:35	<i>Title: Recovery of Lower Limb Weakness in Acute Stroke Patients Using Mirror Therapy and DIY Automatic Device</i> Dr. Wiroj Limtrakarn , Head, Thammasat University, Thailand
16:35-16:55	<i>Title: In Vivo Efficacy of Radiodynamic Therapy with 5-Aminolevulinic Acid for Glioblastoma</i> Dr. Junko Takahashi , Professor, Waseda University, Japan
16:55-17:15	<i>Title: Hypervirulent Klebsiella Pneumoniae and CNS Infections</i> Dr. Grishma V. Kulkarni , Assistant Professor, Malla Reddy Institute of Health Sciences, India

NT 08: Anti-Neurodegenerative Drug Discovery & Biotherapy Development

Time: 09:00-10:45, January 11, 2023 (Wednesday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

Chair	Dr. Matthew C.L. Phillips , Neurologist, Waikato Hospital, New Zealand
09:00-09:05	Chair's Introduction
09:05-09:25	<i>Title: Hospital at Home and Home-Based Primary Care: Finding Synergy</i> Dr. Cameron R. Hernandez , Senior Vice President, Mount Sinai Health System, USA
09:25-09:45	<i>Title: Metabolic Strategies in Neurodegenerative Disorders</i> Dr. Matthew C.L. Phillips , Neurologist, Waikato Hospital, New Zealand
09:45-10:05	<i>Title: Pharmacogenomics Contributes to Precision Psychiatry</i> Dr. Angelos Halaris , Professor, Loyola University Chicago Stritch School of Medicine, USA
10:05-10:25	<i>Title: Merging Perspectives: Neuroscience and the Existential Narrative of the Experience of Dying</i> Dr. Janet A. Bregar , Lecturer, California State University Fullerton, USA
10:25-10:45	<i>Title: Optimizing Selective Muscarinic Acetylcholine Receptor Allosteric Modulators for the Treatment of Schizophrenia and Addiction</i> Dr. Carrie Jones , Principal Investigator, Vanderbilt University, USA
10:45-10:55	Coffee Break

NT 09: Video Forum

- 1 *Title: Personal and Psychiatric Characteristics Among Druze Soldiers Attempting Suicide during Military Service*
Dr. Amir Birany, Director, Independent Psychotherapy Clinic, Israel
- 2 *Title: Glycogen Metabolism Alteration in Cerebral Ischemia/Reperfusion Injury*
Dr. Yanhui Cai, Professor, Xijing Hospital, China
- 3 *Title: Connectome-Wise Association Model on Brain Networks and Its Application on Neurological Disorders*
Dr. Chenfei Ye, Research Assistant Professor, Harbin Institute of Technology at Shenzhen, China
- 4 *Title: The Brain in Winter : microRNA and Metabolic Arrest*
Dr. Kenneth B Storey, Professor, Carleton University, Canada
- 5 *Title: Proper Understanding of Natures of the Nerve Impulses and Their Entropy*
Dr. Salama Mohamed AbdelHady, Professor, Aswan University, Egypt
- 6 *Title: Diet and Precision Bacterial Therapy in Patients with Anxious Depressive Syndrome*
Dr. Maria Rosaria Matera, Azienda USL Toscana Sud Est, Italy
- 7 *Title: Association of Vitamin B12, Vitamin D, and Thyroid-Stimulating Hormone with Fatigue and Neurologic Symptoms in Patients with Fibromyalgia*
Dr. Bala Munipalli, Assistant Professor, Mayo Clinic, USA
- 8 *Title: Neurocognitive Disorders: Dysexecutive Syndrome in Covid E Long Covid Patients*
Dr. Concetta Mezzatesta, Psicologo Psicoterapeuta P.O. "Civico" Partinico Covid Hospital, Italy
- 9 *Title: Compressed SNN Models for Compact Neuromorphic Chip Design*
Dr. Shaogang Hu, Associate Professor, University of Electronic Science and Technology of China, China
- 10 *Title: Restoring Endothelial Function for Therapeutic Applications in Stroke and Cerebrovascular Pathologies*
Dr. Sabyasachi Dash, Scientist, Weill Cornell Medicine, USA
- 11 *Title: The Neuroprotective Activities of Curcumin in Parkinson's Disease*
Dr. Eslam M ElNebrisi, Assistant Professor, Dubai Medical College, United Arab Emirates
- 12 *Title: Oxytocin Receptor Heterodimerization and Control of Glutamate Release from Striatal Astrocytes*
Dr. Manuela Marcoli, Researcher, University of Genoa, Italy
- 13 *Title: Oatps Mediate the Transport of A β 1-42 Protein and Its Mechanism of Action in Alzheimer's Disease*
Dr. Wen Jinhua, PH. D., First Affiliated Hospital of Nanchang University, China
- 14 *Title: An Extended High Frequency Ultrasound Protocol for Detection of Vessel Wall Inflammation*
Dr. Helene Zachrisson, Associate Professor, Linköping University Hospital Linköping, Sweden

The 9th Annual Conference of AnalytiX**AnalytiX 01: Spectroscopy, Mass Spectrometry & Chromatography**

Time: 15:25-18:30, January 09, 2023 (Monday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair	Dr. Alex Dommann , Professor, Swiss Federal Laboratories for Materials Science and Technology, Empa, Switzerland
Co-chair	Dr. Stefan Vajda , Head of Department of Nanocatalysis, J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Czech Republic
15:25-15:30	Chair's Introduction Session Keynote Speaker
15:30-15:50	Title: <i>Quantitatively Evaluate the Orientation of the Axis of α-Helical α-Synuclein(61-95) in Monolayer with Residue Level Resolution by pMAIRS</i> Dr. Chengshan Wang , Associate Professor of Chemistry, Middle Tennessee State University, USA
15:50-16:10	Title: <i>How to Combine Different X-Ray Techniques to Develop a Better Understanding of Semi-Crystalline Structures</i> Dr. Alex Dommann , Professor, Swiss Federal Laboratories for Materials Science and Technology, Empa, Switzerland
16:10-16:30	Title: <i>Time-of-Flight Terahertz Time Domain Spectroscopy – A Tool for Trace Contamination Detection in Liquid Phase</i> Dr. Kamil Stelmaszczyk , Senior Scientist, Centera Labs, Polish Academy of Sciences, Poland
16:30-16:50	Title: <i>Precision Measurement of Molecular Vibrational Rotational Transition Frequencies</i> Dr. Masatoshi Kajita , Senior Researcher, National Institute of Information and Communications Technology, Japan
16:50-17:10	Title: <i>Returning to the Academic Campus as the End of the Covid-19 Pandemic Draws Near: Student Perceptions of Academic Teaching and Learning</i> Dr. Nitza Davidovitch , Professor, Ariel University, Israel
17:10-17:30	Title: <i>Combined in Situ Synchrotron X-Ray Scattering, X-Ray Absorption and Mass Spectroscopy Studies of Nanocatalysts under Realistic Reaction Conditions</i> Dr. Stefan Vajda , Head of Department of Nanocatalysis, J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Czech Republic
17:30-17:50	Title: <i>Real-time Indoor Air Quality Monitoring and Forecasting</i> Dr. Manuel J. Cabral S. Reis , Associate Professor, University of Trás-os-Montes e Alto Douro, Portugal
17:50-18:10	Title: <i>Real-time in-situ Simultaneous Monitoring of Dissolved Oxygen and Materials Movements-Induced Deflection of a Probe Beam at a Vicinity of an Aquatic Plant</i> Dr. Xing-Zheng Wu , Professor, Fukuoka Institute of Technology, Japan
18:10-18:30	Title: <i>Combination of Small Angle Neutron Scattering and Quantum Cascade Laser-based Infrared Spectrophotometer for Investigation of Amyloid Formation</i> Dr. Seyed Mohammad Mahdi Dadfar , Postdoctoral Researcher, Physikalisches Institut, AG Biophysik, RWTH Aachen, Germany

AnalytiX 02: Bioanalytical Chemistry, Microscopy and Imaging Technology

Time: 09:00-10:45, January 10, 2023 (Tuesday); Place: Azalea, 3F, Hotel emisia Sapporo

Chair	Dr. Michal Linial , Professor, Hebrew University of Jerusalem, Israel
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>Assessment of Hyper-Coagulability and Hypo-Fibrinolysis in COVID-19 Patients</i> Dr. Henri Spronk , Associate Professor, Maastricht University, The Netherlands
09:25-09:45	Title: <i>miRNAs in Concert: A Cell-Based Probabilistic Approach</i> Dr. Michal Linial , Professor, Hebrew University of Jerusalem, Israel
09:45-10:05	Title: <i>Super-Resolution Nanoscopy as a Quantitative Bioanalytic Tool: Techniques and Applications to Chromatin Biology in Single Human Cells</i> Dr. Ziqing Winston Zhao , Assistant Professor, National University of Singapore, Singapore
10:05-10:25	Title: <i>The Study of Aptamer-Functionalised Magnetic Particles Aggregation for Urinary Albumin Detection</i> Dr. Nopchulee Cheeveewattanagul , Researcher, Pilot Plant Development of Training Institute, King Mongkut's University of Technology Thonburi, Thailand
10:25-10:45	Title: <i>Simultaneous Detection of Foodborne Pathogens Using Mesoporous Silica Nanoparticles Based on Fluorescent Labels Microarray</i> Ms. Timpika Hormsombut , Nanoscience and Nanotechnology Graduate Program, King Mongkut's University of Technology Thonburi, Thailand
10:45-10:55	Coffee Break

AnalytiX 03: Material Science & Analytical Chemistry

Time: 10:05-12:50, January 11, 2023 (Wednesday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair	Dr. Federico Marini , Professor, Sapienza University of Rome, Italy
Co-chair	Dr. Ludovic Duponchel , Professor, University of Lille, France
10:05-10:10	Chair's Introduction
10:10-10:30	Title: <i>High Transparency, Flexibility, Stretchability of Transfer-Free Graphene Electrodes</i> Dr. Soon-Gil Yoon , Professor, Chungnam National University, South Korea
10:30-10:50	Title: <i>Analysis and Simulation of Monodispersed, Nanostructured Calcite Obtained in a Controlled Multiphase Process</i> Dr. Pawel Gierycz , Professor, Warsaw University of Technology, Poland
10:50-11:10	Title: <i>Rethinking SIMCA for One and Multiple Blocks</i> Dr. Federico Marini , Professor, Sapienza University of Rome, Italy
11:10-11:30	Title: <i>Gray Classical Least Squares: Putting Chemistry Back into Calibration Models</i> Dr. Barry M. Wise , President, Eigenvector Research, Inc., USA
11:30-11:50	Title: <i>Dependence of Strain Coefficient on Temperature and Dependence of Temperature Coefficient on Strain for Distributed Strain and Temperature Discrimination</i> Dr. Lufan Zou , Technical Director, OZ Optics Ltd., Canada
11:50-12:10	Title: <i>Data Fusion in LIBS/PIL Multimodal Imaging: A Strategy to Facilitate Spectral Interpretation of Complex Samples</i> Dr. Ludovic Duponchel , Professor, University of Lille, France

- 12:10-12:30 **Title:** NIR, MIR and Raman Hyperspectral Images and Machine Learning for the Detection of Micro and Nanoplastics in the Environment. When, Where and How
Dr. Jose Manuel Amigo Rubio, Professor, University of the Basque Country, Spain
- 12:30-12:50 **Title:** Real-Time SEM Imaging of Chemical Processes: Red-OX, CVD, Battery Synthesis
Dr. Libor Novak, Research Scientist, Thermo Fisher Scientific, Czech Republic

AnalytiX 04: Video Forum

Title: Captan: Problems Associated with Its Identification in Environmental Objects and Food Products - Ways of Solution
Dr. Lydia Bondareva, Associated Professor, F.F. Erisman's Federal Scientific Center of Hygiene, Russia

The 10th World Congress of Food and Nutrition**WCFN 01: Food Science and Nutrition**

Time: 14:00-15:25, January 09, 2023 (Monday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair **Dr. Pedro Bouchon**, Professor, Pontifical Catholic University of Chile, Chile

14:00-14:05 Chair's Introduction

14:05-14:25 **Title:** Diets, Lifestyle Habits, Intestinal Microflora and Equol Producer Phenotype: Baseline Cross-Sectional Report of a Placebo-Controlled Intervention Trial
Dr. Remi Yoshikata, OG Specialist, Hamasite Clinic, Japan

14:25-14:45 **Title:** Understanding the Structure, Physical Breakdown and Functionality of Third-Generation Snacks Enriched with Catechin Using a Human Gastric Simulator and Extensions to the Use of Grape Pomace Flour
Dr. Pedro Bouchon, Professor, Pontifical Catholic University of Chile, Chile

14:45-15:05 **Title:** Join Our Journey in Feeding the World Without Consuming the Earth - Unlocking Magical Nutrition from Insects for Human Food
Mr. Pablo Pena Abellan, Business Development Manager, Ynsect Human Nutrition & Health, The Netherlands

15:05-15:25 **Title:** A New Method for Producing Superior Set Yogurt, Focusing on Heat Treatment and Homogenization
Mr. Takefumi Ichimura, Associate Scientist, Meiji Co., Ltd., Japan

WCFN 02: Food Science and Nutrition

Time: 09:00-11:05, January 11, 2023 (Wednesday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

Chair **Dr. Jitendra Upadhyaya**, Professor, McGill University, Canada

09:00-09:05 Chair's Introduction

09:05-09:25 **Title:** Chromosomal Q-heterochromatin Variability in Individuals with Alimentary Obesity
Dr. Abyt Ibraimov (Mr. Akhunbaev Mederovich Stalbek Instead), Head of Laboratory of Human Genetics, International Higher School of Medicine, Kyrgyzstan

- 09:25-09:45 **Title:** *The Benefits of Mushroom-Based Protein Fermentation*
Dr. Anthony Clark, CSO, MycoTechnology, USA
- 09:45-10:05 **Title:** *Sensorial and Chemical Analysis of Biscuits Prepared by Incorporating Moringa Flower Powder and Leaf Powder*
Dr. Jitendra Upadhyaya, Professor, McGill University, Canada
- 10:05-10:25 **Title:** *Behavioral Financial Network: An Agent-Based Approach for the Complexity of Heterogeneous Financial Markets*
Dr. Talal Al-Sulaiman, Professor, Saudi Real Estate Refinance Company, Saudi Arabia
- 10:25-10:45 **Title:** *Food Safety: Challenges Face the World in Protecting Global Food Supply*
Dr. Magdy Hefnawy, President, Ag-Tech International, Inc., USA
- 10:45-11:05 **Title:** *Lessons to Learn for Dietary Management: Irritable Bowel Syndrome and the Gut Microbiome*
Dr. Horst C. Weber, Assistant Professor, Boston University School of Medicine, USA

WCFN 03: Video Forum

- 1 **Title:** *Role of Glucocorticoid Resistance in Polycystic Ovarian Syndrome (PCOS)*
Dr. Svetlana Ten, Consultant, Richmond University Medical Center, USA
- 2 **Title:** *Does Generation Z Care Corporate Social Responsibility?*
Dr. Man Chung Wong, Lecturer, Lingnan University, Hong Kong, China
- 3 **Title:** *Spatially Resolved Distributions of Mineral Elements and Biomolecules in Tartary Buckwheat Grain: What, Where, and Why?*
Dr. Marjana Regvar, Professor, University of Ljubljana, Slovenia

The 10th Annual World Congress of Ocean
WCO 01: Ocean Economy and Maritime Law

Time: 09:00-13:00, January 09, 2023 (Monday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

Chair **Dr. Lauri Railas**, Attorney, Railas Attorneys Ltd., The Average Adjuster in Finland; Adjunct Professor of Civil Law, University of Helsinki, Finland

Co-chair **Mrs. Barbara Amerio**, Board Member of Italian Superyacht Association, Sustainability Ambassador for Yachting Sector, Italy

09:00-09:05 **Chair's Introduction**

09:05-09:30 **Title:** *Ocean Economy-Current Challenges and Future Trends with a Special Focus on Ports*
Mr. Stefan Haid, Global Strategic Infrastructure Practice, Partner, Roland Berger GmbH and Managing Partner, Roland Berger LLC, Ukraine

09:30-09:55 **Title:** *Italian Yacht Industry Focus on Sustainability and Actions for the Future*
Mrs. Barbara Amerio, Board Member of Italian Superyacht Association, Sustainability Ambassador for Yachting Sector, Italy

09:55-10:20 **Title:** *Unlocking The Full Potential of Microalgae Diversity Through Unique Technology Platform at Industrial Scale: A Sustainable Sourcing of Unique Bioactive Ingredients*
Mr. Vincent Usache, CEO, Microphyt SA, France

10:20-10:45 **Title:** *The Rule of Law, Risk Mitigation and Policing Competences in Security Concepts at Sea*
Mr. Philipp Hermes, Esq., Director, Tethys Naval, Germany

10:45-10:55	Coffee Break
10:55-11:20	<p><i>Title: United Nations Convention on the Law of the Sea and the Protection and Preservation of the Marine Environment</i></p> <p>Dr. Mariko Kawano, Professor of International Law, Waseda University, Japan</p>
11:20-11:45	<p><i>Title: Deliveries and the Time Factor-Lessons from the Covid-19 Pandemic</i></p> <p>Dr. Lauri Railas, Attorney, Railas Attorneys Ltd., The Average Adjuster in Finland; Adjunct Professor of Civil Law, University of Helsinki, Finland</p>
11:45-12:10	<p><i>Title: The Master's Legal, Managerial, Operational and Commercial Roles in the Era of Autonomous Ship Operations</i></p> <p>Mr. Tor Erik Jensen, Assistant Professor, University of South-Eastern Norway, Norway</p>
12:10-12:35	<p><i>Title: MASS National Regulation in Russia</i></p> <p>Mrs. Natalia Kharchenko, Lead Expert on International Relations, Autonomous Technologies Promotion Center, Russian University of Transport, Russia</p>
12:35-13:00	<p><i>Title: The Practical, Legal and Insurance Side of Remotely Controlled Shipping</i></p> <p>Mr. Kristof Olyslager, Marine Insurance Broker, Vanbreda Marine, Belgium</p>

WCO 02: Ocean Engineering and Ocean Energy

Time: 09:00-12:35, January 10, 2023 (Tuesday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

Chair	Mr. Foerd Ames , Inventor & Owner, OWECO Ocean Wave Energy Company, USA
Co-chair	Dr. Po-Hsiung Lin , Professor, Department of Atmospheric Sciences, National Taiwan University, Taiwan
09:00-09:05	Chair's Introduction
	Session Keynote Speaker
09:05-09:25	<p><i>Title: Geotechnical Offshore Subsurface Investigation for European Offshore Wind Projects in the Southern North Sea - State of the Art and New Ideas</i></p> <p>Mr. Tobias Moerz, Professor for Marine Engineering Geology, MARUM – Center for Marine Environmental Sciences and Faculty of Geosciences; University of Bremen; Founding CEO of Geo-Engineering.org GmbH, Germany</p>
09:25-09:45	<p><i>Title: Land Reclamation, Ground Improvement, and Their Challenges</i></p> <p>Prof. Myint Win Bo, President & CEO, Bo & Associates Inc., Canada</p>
09:45-10:05	<p><i>Title: Coastal Vulnerability and Protection Structures: Indian Coastal Zone Management</i></p> <p>Dr. Muni Reddy G. Mutukuru, Professor Coastal Engineering Division, Department of Civil Engineering, Andhra University, Visakhapatnam, India</p>
10:05-10:25	<p><i>Title: Vertical Profile of Wind Speed at Western Pacific Ocean nearby Taiwan and South China Sea</i></p> <p>Dr. Po-Hsiung Lin, Professor, Department of Atmospheric Sciences, National Taiwan University, Taiwan</p>
10:25-10:45	<p><i>Title: Toward Power, Water, And Climate Management Using Ocean Wave Energy</i></p> <p>Mr. Foerd Ames, Inventor & Owner, OWECO Ocean Wave Energy Company, USA</p>
10:45-10:55	Coffee Break
10:55-11:15	<p><i>Title: How to Optimize the OPEX for Seabed Mounted Tidal Turbines?</i></p> <p>Mr. Jérôme Le Moigne, Commercial Leader, Sabella, France</p>

- 11:15-11:35 **Title:** *Enhanced Linear Sliding Wave Energy Converter for Ocean Buoys*
Mr. Donald DelBalzo, DelBalzo Tech Solutions, Orlando, Florida, USA
- 11:35-11:55 **Title:** *Challenges and Opportunities for Floating Offshore Wind in Japan*
Mr. Masataka Nakagawa, Senior Engineer, Floating Wind, Offshore Wind Consultants Ltd., Japan
- 11:55-12:15 **Title:** *Transforming the Future of De-carbonizing Bunker Fuel: Northwest Australia as A New Global Renewable Energy Super Hub*
Captain Paul Toussaint-Jackson, Director, Australian Floating Decks Pty Ltd., Australia
- 12:15-12:35 **Title:** *Offshore Wind Farm Environmental Monitoring in Korea*
Mr. Kim Minsuek, Senior Researcher, Korea Electric Power Corporation, South Korea

WCO 03: Ocean Management and Environment Protection

Time: 14:00-15:45, January 10, 2023 (Tuesday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

- Chair** **Dr. Christopher L. Dyer**, Professor of Anthropology, Division of Arts and Sciences, University of New Mexico-Gallup, USA
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *Environment and Issues Affecting Safety and Sustainable Manning*
Mr. Odd Rune Malterud, Assistant Director & Technical Manager, Norwegian Union of Marine Engineers, Chair ITF Maritime Safety Committee, Norway
- 14:25-14:45 **Title:** *Managing Outliers from Coastal Ecosystem Monitoring Data*
Dr. Gyung Soo Park, Professor, Anyang University, South Korea
- 14:45-15:05 **Title:** *The Natural Resource Region as an Interface Template for Community Based Management of our Large Marine Ecosystems*
Dr. Christopher L. Dyer, Professor of Anthropology, Division of Arts and Sciences, University of New Mexico-Gallup, USA
- 15:05-15:25 **Title:** *The Cause-and Effect-Chain of the Disaster on the Offshore Drilling Deepwater Horizon*
Dr. Volker Hoensch, Author Human-Reliability and Safety Culture, Germany
- 15:25-15:45 **Title:** *The Tanah-Air Concept and Ocean Governance in Indonesia*
Dr. Indra Alverdian, Lecturer, President University, Indonesia

WCO 04: Emerging Ocean Science and Technology

Time: 15:55-17:40, January 10, 2023 (Tuesday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

- Chair** **Dr. Pia Dahl Højgaard**, Director General, Danish Geodata Agency, Denmark
- 15:55-16:00 **Chair's Introduction**
- 16:00-16:20 **Title:** *Ice Information for Safe Navigation in Polar Waters*
Dr. Keld Qvistgaard, Senior Ice Advisor, Greenland Ice Service Danish Meteorological Institute, Denmark
- 16:20-16:40 **Title:** *The Danish Hydrographic Office Move from only Charting to Hydrosatial Public Authority*
Dr. Pia Dahl Højgaard, Director General, Danish Geodata Agency, Denmark
- 16:40-17:00 **Title:** *Underwater Acoustic Communications: Feedback-based Techniques and Transmit Beamforming*
Dr. Milica Stojanovic, Associate Professor, Department of Electrical and Computer Engineering, Northeastern University, USA

- 17:00-17:20 **Title:** *Activating the Hobbyist, A Platformization of Fishermen to Better Understand Aquatic Life and Populations Through Cloud and Machine Learning*
Dr. Brandon Donnelly, Chairman, WIHN Inc, Switzerland
- 17:20-17:40 **Title:** *Experience of MASS Operation in Real Commercial Conditions*
Mr. Maxim Barkasov, Lead Expert, a-Navigation Promotional Center MARINET RUT, Russia

WCO 05: Smart Port, Green Shipping & Shipbuilding

Time: 11:10-13:35, January 11, 2023 (Wednesday); Place: SymphonyAB, 4F, Hotel emisia Sapporo

- Chair** **Mr. James Fanshawe**, Chairman, UK MASRWG; Director, ZULU Associates, UK
- 11:10-11:15 **Chair's Introduction**
- 11:15-11:35 **Title:** *Zero Waste Shipping*
Dr. Theodora Alexakis, VP. Business Development, Terragon Environmental Technologies Inc., Canada
- 11:35-11:55 **Title:** *Preparing Ports and Their Organisations for the Arrival of Autonomous Ships, Using Novel Technologies and Fuel Sources*
Mr. James Fanshawe, Chairman, UK MASRWG; Director, ZULU Associates, UK
- 11:55-12:15 **Title:** *Smart Port, Green Shipping & Shipbuilding-Through Smart Collaboration to Reduce Operational Cost*
Mr. William Yip, Senior Sales Director, Total Soft Bank Ltd., South Korea
- 12:15-12:35 **Title:** *"Wind Hunter" the Hydrogen Generation Sailing Ship*
Mr. Kazuyuki Ouchi, CEO, Ouchi Ocean Consultant, Inc., Japan
- 12:35-12:55 **Title:** *Sustainable Marine Fuels from Biogenic Waste*
Dr. Paul Hilditch, Founder & Chief Strategy Officer, Green Fuels Research, UK
- 12:55-13:15 **Title:** *Safety Analysis for a Car Ferry with a Novel Battery Power Supply System*
Dr. Hyungju Kim, Associate Professor, University of South-Eastern Norway, Norway
- 13:15-13:35 **Title:** *Design, Development and Performance Evaluation of Wind-Assisted Ship Propulsion Systems*
Dr. Heng Zhu, Doctoral Researcher, Chalmers University of Technology, Sweden

WCO 06: Aquaculture and Fisheries Forum

Time: 10:55-13:20, January 11, 2023 (Wednesday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

- Chair** **Mr. Eric Holliday**, Chief Executive, FISH Safety Foundation, New Zealand
- Co-chair** **Prof. Rokhmin Dahuri**, President, Indonesia Aquaculture Society, Indonesia
- 10:55-11:00 **Chair's Introduction**
- 11:00-11:20 **Title:** *Maine Scallop Aquaculture Development Initiative, Community Development through International Tech-transfer*
Mr. Hugh S Cowperthwaite, Senior Program Director, Fisheries and Aquaculture, Coastal Enterprises, Inc., USA
- 11:20-11:40 **Title:** *Safety and Sustainability in the Fishing Industry: The Need for Adherence to the Global Regulatory Framework*
Mr. Eric Holliday, Chief Executive, FISH Safety Foundation, New Zealand

- 11:40-12:00 **Title:** *Development of Aquaponics in Saudi Arabia - Future Prospects and Possibilities*
Dr. Yousef S. Alhafedh, Professor, Ministry of Environment, Water and Agriculture, Saudi Arabia
- 12:00-12:20 **Title:** *The Development of an Inclusive and Sustainable Aquaculture for Strengthening Food Security and Prosperity*
Prof. Rokhmin Dahuri, President, Indonesia Aquaculture Society, Indonesia
- 12:20-12:40 **Title:** *The Species Composition, Distribution and Stock Density of Deep Sea Demersal Fish in Southern Java Waters, Indian Ocean Indonesian Exclusive Economic Zone*
Dr. Ali Suman, Senior Researcher, Research Center for Fishery- National Agency for Research and Innovation (BRIN)- Indonesian Government, Indonesia
- 12:40-13:00 **Title:** *Valorization of Fish Filleting Co-products to Functional Protein Ingredients by Cross-processing Them with Agricultural Side Streams or Seaweeds*
Dr. Jingnan Zhang, Doctoral Researcher, Chalmers University of Technology, Sweden
- 13:00-13:20 **Title:** *Emerging Technological Progress in Aquaculture in the GCC –A Regional Perspective*
Mr. Mohammad Tabish, Founding Member & CEO, Aqua Bridge Group, UAE

WCO 07: Video Forum

- 1 **Title:** *Climate Change and Arctic Governance: Fragmentation or Integration?*
Dr. Ottavio Quirico, Senior Researcher, Perugia University for Foreigners, Italy; Associate Professor, University of New England, Australia
- 2 **Title:** *Utilizing The 'Digitization-Wave' to Boost Port's and Terminal's Efficiency*
Dr. Holger Schuett, Professor, University of Applied Science Bremerhaven; MD at Akquinet Port Consulting GmbH, Germany
- 3 **Title:** *Achieving Sustainability in Fisheries: Livelihood Transformation of Small-Scale Fishers, Rural Economy and Challenges*
Mr. Kh. Mahbubul Haque, Director General, Department of Fisheries, Ministry of Fisheries and Livestock, Bangladesh
- 4 **Title:** *Homeopathic Factors Applied in Aquaculture Promotes Sustainability. Homeopathic Medicines Do not Contaminate Water and Aquatic Organisms*
Dr. Arenales. M. Carmo, President, Homeopathic Veterinary Laboratory Arenales, Brazil
- 5 **Title:** *European Algae Standards and Their Impact on Algae Industry*
Mr. Silvio Mangini, Scientific Officer, Archimede Ricerche srl, Italy
- 6 **Title:** *Privatizing Bodies of Water: Lakes, Rivers and Oceans*
Dr. Walter E. Block, Harold E. Wirth Eminent Scholar, Endowed Chair and Professor of Economics, Loyola University New Orleans, USA

The 4th World Congress of Education

WCE 01: University Campus-Higher Education Forum (Part I)

Time: 09:00-11:35, January 09, 2023 (Monday); Place: Crown, 3F, Hotel emisia Sapporo

Chair	Dr. Andreas Zehetner , Professor, University of Applied Sciences Upper Austria, Austria
Co-chair	Dr. Pedro J. A. Tadeu , Professor, Centre for Studies in Education and Innovation, Portugal
09:00-09:05	Chair's Introduction
09:05-09:25	<p>Title: <i>The Birth of Neoprofessionalism in the Context of Neoliberal Governmentality: The Case of Productive University Teachers</i></p> <p>Dr. Tien-Hui Chiang, Distinguished Professor, Vice President, International Sociological Association, China</p>
09:25-09:45	<p>Title: <i>Connecting Higher Education and Business in Innovation and Entrepreneurship: Case Studies from Austria</i></p> <p>Dr. Andreas Zehetner, Professor, University of Applied Sciences Upper Austria, Austria</p>
09:45-10:05	<p>Title: <i>Scientific Value in Humanities Education: Understanding Climate Change Based on Historical Document in China</i></p> <p>Dr. Qing Pei, Associate Professor, The Education University of Hong Kong, Hong Kong, China</p>
10:05-10:25	<p>Title: <i>Digital Teaching Competence in Higher Education. A Systematic Review</i></p> <p>Dr. Pedro J. A. Tadeu, Professor, Centre for Studies in Education and Innovation, Portugal</p>
10:25-10:45	<p>Title: <i>The Effectiveness of Laughter at the Medical Site</i></p> <p>Dr. Rieko Matsuoka, Professor, Teikyo University, Japan</p> <p>Dr. Tadashi Nakamura, Director, Nakamura ENT Clinic, Japan</p>
10:45-10:55	Coffee Break
10:55-11:15	<p>Title: <i>The Importance of the Digital Skills of University Teachers. A Study of Cognitive Disability-Related Mobile Apps Available on Google Play</i></p> <p>Dr. Carlos J. G. Brigas, Professor, Centre for Studies in Education and Innovation, Portugal</p>
11:15-11:35	<p>Title: <i>Business & Management Education in MGIMO University: Best Practices and Future Trends</i></p> <p>Dr. Alla Dementieva, Professor of the Department of Management, Marketing and International Economic Activity, MGIMO University, Russia</p>

WCE 02: University Campus-Higher Education Forum (Part II)

Time: 09:00-11:35, January 09, 2023 (Monday); Place: SymphonyCD, 4F, Hotel emisia Sapporo

Chair	Dr. Hiroshi Ishida , Professor, University of Tokyo, Japan
09:00-09:05	Chair's Introduction
09:05-09:25	<p>Title: <i>The African Diaspora and the Quest for Development-centered Education in Twenty-First Century Africa</i></p> <p>Dr. Mohamed Saliou Camara, Professor and Chair, Howard University, USA</p>

- 09:25-09:45 **Title:** *Language Teaching and Learning Post-pandemic: New Challenges or New Opportunities*
Dr. Marilyn Lambert-Drache, Associate Professor, Department of French Studies, University of York, Canada
- 09:45-10:05 **Title:** *The Paradoxical Hegemony of the University Discourse*
Dr. Mark G.E. Kelly, Associate Professor, Western Sydney University, Australia
- 10:05-10:25 **Title:** *The Impact of COVID 19 on Teaching and Learning. The Case of ISEG- ULisbon*
Dr. Graça Leão Fernandes, Assistant Professor, Mathematics - Statistics and Actuarial Sciences, University of Lisbon, Portugal
- 10:25-10:45 **Title:** *Higher Education and Social Mobility*
Dr. Hiroshi Ishida, Professor, University of Tokyo, Japan
- 10:45-10:55 **Coffee Break**
- 10:55-11:15 **Title:** *Role and Meaning of Mentors ('Scientific Masters') in Modern Science and Academic Education*
Dr. Wiesław Alejski, Associate Professor, University of Physical Education in Krakow, Poland
- 11:15-11:35 **Title:** *Quality of Education in 2022*
Dr. Eduardo Tomé, Associate Professor, Lusófona University, Lisbon, Portugal

WCE 03: K12 Edu-Garden-Primary Education Forum

Time: 09:00-10:20, January 10, 2023 (Tuesday); Place: Crown, 3F, Hotel emisia Sapporo

- Chair** **Dr. Mitsue Allen-Tamai**, Professor, Aoyama Gakuin University, Japan
- 09:00-09:05 **Chair's Introduction**
- 09:05-09:30 **Title:** *Different Approach towards the Most Vulnerable: Centralization and Decentralization in the Hungarian K12 Education*
Dr. Balázs Gerencsér, Associate Professor, Pázmány Péter Catholic University, Hungary
- 09:30-09:55 **Title:** *Comprehensive Parent Education on Supporting Emotionally Intelligent Parenting*
Dr. Helen Y. Sung, Adjunct Professor, Alliant International University, USA
- 09:55-10:20 **Title:** *Challenges of Teaching English to Young Learners in Japan after 2020*
Dr. Mitsue Allen-Tamai, Professor, Aoyama Gakuin University, Japan

WCE 04: STEM Education Research Forum

Time: 14:00-15:45, January 10, 2023 (Tuesday); Place: Crown, 3F, Hotel emisia Sapporo

- Chair** **Dr. Christoph Meinel**, President and CEO, Hasso Plattner Institute for IT-Systems Engineering, Germany
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *Rethink Digital Education – openHPI and Co*
Dr. Christoph Meinel, President and CEO, Hasso Plattner Institute for IT-Systems Engineering, Germany
- 14:25-14:45 **Title:** *EXCEL: Educational eXcellence via Comprehensive & Engaging Learning - Advanced Intelligent & Distributed Learning via wiseCIO*
Dr. Sheldon Liang, Professor, Lane College, TN, USA

- 14:45-15:05 **Title:** *New Vision of Engineering Training: the Mandatory Association of e-Learning and Know-how, Applied to Microelectronics*
Dr. Olivier Bonnaud, Professor, University of Rennes 1, Executive Director of GIP-CNFM (National Coordination for Education in Microelectronics and Nanotechnologies), France
- 15:05-15:25 **Title:** *Experiential and Inquiry Based Instruction in STEM Education*
Dr. Geoff Wright, Professor, Brigham Young University, USA
- 15:25-15:45 **Title:** *The Impact of Multifaceted Interventions on the Satisfaction of Medical Events Organizers and the CME Hours Gained in a Tertiary Care Hospital*
Dr. Tariq Munshy, Executive Director, The Academic Affair and Training – King Abdullah Medical City, Saudi Arabia

WCE 05: University Campus-Higher Education Forum (Part III)

Time: 15:50-17:55, January 10, 2023 (Tuesday); Place: Crown, 3F, Hotel emisia Sapporo

Chair **Dr. Sawsan Abdul-Majid**, Professor, University of Ottawa, Canada

Co-chair **Dr. Helen Y. Sung**, Adjunct Professor, Alliant International University, USA

- 15:50-15:55 **Chair's Introduction**
- 15:55-16:15 **Title:** *The Influence of Case Teaching and Action Learning Method on Cultivating Students' Entrepreneurial Spirit*
Dr. Hsiang-Hsun Wu, Director, College of Management, Yuan Ze University, Taiwan
- 16:15-16:35 **Title:** *Transdisciplinary Communities of Practice Model: Building Complex Thinking Skills among Undergraduates*
Dr. Catherine T. Amelink, Associate Vice Provost, Office of the Executive Vice Provost, Virginia Polytechnic Institute and State University, USA
- 16:35-16:55 **Title:** *Development and Mentoring of Professional Skills in Graduate Engineering Programs*
Dr. Sawsan Abdul-Majid, Professor, University of Ottawa, Canada
- 16:55-17:15 **Title:** *How COVID Changed UK Family Medicine Education and Assessment Forever*
Air Vice-Marshal Prof. Rich Withnall, Director of Defence Healthcare, Defence Medical Services, UK
- 17:15-17:35 **Title:** *Emotional Intelligence and Socio-cognitive Skills in Collaborative Teaching and Learning*
Dr. Helen Y. Sung, Adjunct Professor, Alliant International University, USA
- 17:35-17:55 **Title:** *Supporting Special Educational Needs (SEN) Students through Artificial Intelligence and Internet of Things (AIoT)*
Mr. Chun Man Victor Wong, Doctor of Education Student, Department of Special Education and Counselling, The Education University of Hong Kong, Hong Kong, China

WCE 06: Logic Hub-Edu-Research Innovation Forum

Time: 09:00-10:45, January 11, 2023 (Wednesday); Place: Crown, 3F, Hotel Emisia Sapporo

Chair	Dr. Michael Owen , Dean and Professor, Faculty of Education, Brock University, Canada
09:00-09:05	Chair's Introduction
09:05-09:30	Keynote Speech Title: <i>Interweaving for the New World: Changing Roles of Design, Designers and Education</i> Dr. Jesvin Puay-Hwa Yeo , Deputy Associate Provost (Strategy), Nanyang Technological University, Singapore
09:30-09:55	Title: <i>The What, Why, and How of Innovation</i> Dr. Geoff Wright , Professor, Brigham Young University, USA
09:55-10:20	Title: <i>Implementation and Evaluation of the Gamified Regulation Process of Emotion</i> Dr. Gemma Filella-Guiu , Professor, University of Lleida, Spain
10:20-10:45	Title: <i>Excellence in Management Consultancy</i> Subtitle: <i>Professionalism and Way Forward in a New Era</i> Dr. Ilse Andrea Ennsfellner , Owner Ennsfellner Consulting e.U., Chair of the European CEN Technical Committee TC 381 Management Consultancy Services, Austria

WCE 07: Humanities and Social Science Education

Time: 10:50-12:35, January 11, 2023 (Wednesday); Place: Crown, 3F, Hotel Emisia Sapporo

Chair	Dr. Notker Wolf O.S.B. , Abbot Primate Emeritus, Archabbey of St. Ottilien, Germany
10:50-10:55	Chair's Introduction
10:55-11:20	Title: <i>Eye-tracking as a Way to Understand Attention and Learning in a Cyber Physical Classroom</i> Dr. W. Quin Yow , Associate Professor, Singapore University, Singapore
11:20-11:45	Title: <i>Developing Academic-Community Partnerships in Higher Education Institutions in Israel: Learning from Success</i> Dr. Faisal Azaiza , President of Sakhrin Academic College for Teacher Education, Israel
11:45-12:10	Title: <i>Leadership Training in the Monastic Context: Experiences and Future Challenges</i> Dr. Notker Wolf O.S.B. , Abbot Primate Emeritus, Archabbey of St. Ottilien, Germany
12:10-12:35	Title: <i>Removing Barriers to Inclusive Education: The Overlooked Aspect of Social Cohesion</i> Dr. Jacqueline Josephine Schenk , Associate Professor, Erasmus University Rotterdam, The Netherlands

WCE 08: Video Forum

- 1 *Title: Developing Telehealth Systems for Parent-mediated Intervention of People with Autism: Practical Guidelines*
Dr. Marco Esposito, Psychologist, Autism Research and Treatment Centre "Una Breccia Nel Muro", Italy
- 2 *Title: Female Sociology as An Academic Discipline*
Dr. Lejla Mušić, Associate Professor, Department of Sociology, Faculty of Political Sciences Sarajevo, Sarajevo University, Bosnia and Herzegovina
- 3 *Title: Empowering and Fostering Students' Research Experiences through Active Learning: A Case Study in Epidemiology*
Dr. Won Sun Chen, Senior Lecturer in Statistics, Swinburne University of Technology, Australia
- 4 *Title: Alzheimer's Disease as Time Travel*
Dr. Christopher Johnson, Clinical Professor of Sociology, Department of Sociology, Texas State University, USA
- 5 *Title: Computational thinking, Engineering Design, and STEM Education*
Dr. Jiangmei Yuan, Assistant Professor, Department of Counseling and Learning Sciences, College of Education & Human Services, West Virginia University, USA
- 6 *Title: Guiding to the Next Level of Education with Soft Skills*
Dr. Franziska Weitzel, Professor in Vocational Education, Germany
- 7 *Title: Higher Education in Spain in Times of COVID: Present and Future in the Aftermath of the Pandemic. Methodologies and Innovation*
Dr. Jose Manuel Valero, Professor, King Rey Juan Carlos University, International University of La Rioja, Spain
- 8 *Title: Art Education and the Power of the Visual in Today's Society*
Dr. Joanna Black, Professor, University of Manitoba, Canada
- 9 *Title: Innovative Teacher Education through Personalized Learning*
Dr. Stefanija Alisauskiene, Professor, Vytautas Magnus University, Lithuania
- 10 *Title: Obstacles to Inclusive Education*
Dr. Alba Garcia-Barrera, Director of the Master's Degree in Psychopedagogy, Madrid Open University, Spain
- 11 *Title: Entrepreneurial Teaching Competencies: The Quest for Quality Education*
Dr. Ana Verde Trabada, Professor, Universidad Internacional de La Rioja, Spain
- 12 *Title: Incorporating Technology in Healthcare Delivery*
Dr. Vanita Ahuja, Chief of General Surgery, Department of Surgery, Yale University, USA
- 13 *Title: Technical Changes in University Learning and Teaching Processes in Car Telematics Lectures*
Dr. Oliver Michler, Professor, Technical University Dresden, Germany
- 14 *Title: Reflections on Educational Effects in the Age of Crises*
Dr. Mirosław Kowalski, Associate Professor, University of Zielona Góra, Poland
Dr. Klaudia Kasowska, Doctor of Social Science, University of Zielona Góra, Poland
- 15 *Title: The System for Formation of Safe Educational Cyberspace: A Human and Cyber-physical Systems' Integration Approach*
Dr. Oleksandr Burov, Leading Researcher, Institute of Information Technologies and Learning Tools, Ukraine

- 16 **Title:** *Advancing and Sustaining Change in Higher Education: Three Leadership Imperatives*
Dr. Brent D. Ruben, Distinguished Professor and Senior University Fellow, Communication and Organizational Leadership, Rutgers University, USA
- 17 **Title:** *How Does Your Garden Grow: Hiring and Managing a Remote Team*
Dr. Rik Bair, Associate Dean Division of Continuing and International Education, Executive Director of Distance Learning Institute, University of Miami, USA
- 18 **Title:** *Amplifying Student Engagement*
Dr. Ted Ladd, Professor of Entrepreneurship, the Hult International Business School, USA
- 19 **Title:** *Micro-Credentialing in Online Learning: Upskilling the Teaching Workforce*
Dr. Debra Ferdinand-James, Lecturer, University of The West Indies, Jamaica
- 20 **Title:** *Network Design, Simulations and Improvement Using Riverbed Academic Edition, Version 17.5 at the Universities: A Case Study of University of Technology, Jamaica*
Mr. Christopher Udeagha, Senior Lecturer, Faculty of Engineering & Computing, University of Technology (UTech), Jamaica
- 21 **Title:** *Exploratory Analysis of the Twitter Communication of the University of Valencia*
Dr. Berta Tubillejas-Andres, Professor, Marketing Department, University of Valencia, Spain
- 22 **Title:** *Neurodidactics in Theory and Practice: Lessons Learned by Developing Brain-stimulating Online Learning Content for a European Young Migrant and Refugee Project*
Dr. Nicole Flindt, Head, Heidelberg University of Education, Germany
- 23 **Title:** *Use of YouTube Videos in Traditional Education Courses: Expanding the STEM Public Sphere*
Dr. Judith McIntosh White, Associate Professor, University of New Mexico, USA
- 24 **Title:** *Vocational Intelligence of Adolescents*
Dr. Rahayu Ahamad Bahtiar, Head of Staff Development Department, Institut Aminuddin Baki Kementerian Pendidikan Malaysia, Malaysia
- 25 **Title:** *Teamteaching in Sciences and English at Vocational Schools*
Mrs. Ursula Steiner, Vocational Teacher, Naturwissenschaftlich-technische Akademie (nta), Germany
- 26 **Title:** *Using a Decollage Approach to Teach Stroke Thrombectomy to Health Care Professionals*
Dr. Sumanjit K. Gill, Associate Professor (Teaching), Institute of Neurology, University College London, UK
- 27 **Title:** *Theory of Model-Based Learning and Teaching Science*
Dr. Patricio Flores-Morales, Professor, Polymer Department, Faculty of Chemical Science, University of Concepcion, Chile
- 28 **Title:** *Metacognitive Instruction for Sustainable Learning: Learners' Perceptions of Task Difficulty and Use of Metacognitive Strategies in Completing Integrated Speaking Tasks*
Dr. Weiwei Zhang, Senior Lecturer, Quzhou University, China
- 29 **Title:** *Renewable Energy Education*
Dr. Abrar Almalki, Ph.D. Candidate, Computational Science and Engineering, North Carolina A&T University, USA
- 30 **Title:** *Religious Courses Versus Sex Education Courses in Belgium: Legal Perspectives*
Dr. Stephanie Wattier, Professor, Namur University, Faculty of Law, Belgium

The 7th Annual Global Congress of Knowledge Economy

GCKE 01: The Vision for Knowledge Economy in 2025(Close)

Time: 09:00-10:20, January 09, 2023 (Monday); Place: Lailic, 3F, Hotel emisia Sapporo

GCKE 02: Robotics and AI Technology Innovation

Time: 10:55-11:50, January 09, 2023 (Monday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair *Dr. Irina Illina*, Associate Professor, Lorraine University, France

10:55-11:00 **Chair's Introduction**

11:00-11:25 *Title: Hate Speech Detection in Social Media Using Deep Neural Networks*

Dr. Irina Illina, Associate Professor, Lorraine University, France

Title: Creating Efficient Artificial Intelligence: Challenges and Opportunities

11:25-11:50 *Dr. Pavel Kisilev*, CTO, Cognitive Computing and AI (CCAI) Lab, Huawei Israel Research Center, Israel

GCKE 03: Economic Sustainability

Time: 09:00-12:50, January 10, 2023 (Tuesday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair *Dr. Jean-Éric Pelet*, Assistant Professor, Université Panthéon-Assas, France

Co-chair *Dr. Olga Scrivner*, Assistant Professor, Computer Science and Software Engineering, Rose-Hulman Institute of Technology; Visiting Professor, Indiana University, USA

09:00-09:05 **Chair's Introduction**

09:05-09:30 *Title: Where 'Social' Meets 'Shopping': When Social and Functional Aspects of Social E-commerce Platforms Translate into Group Buying*

Dr. Jean-Éric Pelet, Assistant Professor, Université Panthéon-Assas, France

09:30-09:55 *Title: Forecasting of Important Economic Indicators Based on Mobile Data and Its Application to Effective Trading*

Dr. Takuya Kaneko, Associate Professor, International Christian University, Japan

09:55-10:20 *Title: The Digital Transformation Strategy in Korea*

Dr. Jee Hyung Lee, Director, Technology Policy Research Division at ETRI (Electronics and Telecommunications Research Institute), South Korea

10:20-10:45 *Title: Digital Social Capital with the Blockchain Technology*

Dr. Jay Kishigami, Professor, Keio University, Japan

10:45-11:10 *Title: Research on Influencing Factors of Chinese Carbon Trading Price -- Based on China's National Carbon Market*

Mr. Yu Yao, International Christian University, Japan

11:10-11:35 *Title: The V Model of Innovation and Entrepreneurship: A Comparison in Buddhism Regions*

Dr. Hongyi Sun, Associate Professor, City University of Hong Kong, Hong Kong, China

11:35-12:00 *Title: A Study of the Interrelationship between Personal Branding and Consumer Decision-Making in the Thai E-commerce Industry*

Ms. Pandharee Boontawee & Ms. Tamolwan Chimnoi, KUBIM, Faculty of Business Administration in Marketing, Kasetsart University, Thailand

- 12:00-12:25 **Title:** *Bridging the Gap: The Intersection of Artificial and Emotional Intelligence in Healthcare*
Ph.D.c. James H. Scrivner, CEO and Co-Founder, Scrivner Solutions Inc., USA
- 12:25-12:50 **Title:** *Eliminating Biases in AI and NLP*
Dr. Olga Scrivner, Assistant Professor, Computer Science and Software Engineering, Rose-Hulman Institute of Technology; Visiting Professor, Indiana University, USA

GCKE 04: Smart IT/ICT & Educational

Time: 14:00-15:45, January 10, 2023 (Tuesday); Place: Lailic, 3F, Hotel emisia Sapporo

- Chair** **Mr. John Owen Roberts**, Independent Researcher, Former Open University Tutor, UK
- 14:00-14:05 **Chair's Introduction**
- 14:05-14:25 **Title:** *Digital 3D/4D HAPTIC Textile Coating Application for Athletic Footwear*
Dr. Thomas W. Schmidt, Director of Innovation, Fujian Huafeng New Material Co., Ltd., China
- 14:25-14:45 **Title:** *The Evolution of the Periodic Table via Quantum Field Theory*
Mr. John Owen Roberts, Independent Researcher, Former Open University Tutor, UK
- 14:45-15:05 **Title:** *Higher Education Quality Assurance*
Dr. Fernando F. Padro, Associate Professor, University of Southern Queensland, Australia
- 15:05-15:25 **Title:** *Inclusion as a Starting Point or Dead-end for Institutionalized Education in Capitalistic Societies?*
Dr. Joerg Zender, Researcher, University of Applied Science RheinMain, Germany
- 15:25-15:45 **Title:** *FPGA IP Core for Framing Speech Signals*
Mr. Nettimi Satya Sai Srinivas, Doctoral Candidate, National Institute of Technology, Puducherry, Karaikal, India
- 15:45-15:55 **Coffee Break**

GCKE 05: Video Forum

- 1 **Title:** *Economies of Scale through E-Teaching in the Post-COVID Era – Students' Improvements Recommendations Using Mixed Methods Design*
Dr. Nitza Davidovitch, Professor, Ariel University, Israel
- 2 **Title:** *Innovation in Training and Adult Education in Singapore: Opportunities and Challenges*
Dr. Zan Chen, Principal Researcher and Senior Lecturer, Institute for Adult Learning, Singapore University of Social Sciences, Singapore
- 3 **Title:** *Quantum Economics: Evolution and Adaptation in Austere Environments*
Mr. Angelo Compierchio, Lulea University of Technology, Sweden
- 4 **Title:** *The Role of Blockchain in E-health and Hospital Management*
Dr. Samia Aitouche, Professor, University Batna 2, Algeria
- 5 **Title:** *Cumulation of Crises and Its Impacts on Global Business Ecosystems*
Dr. Tomasz Mroczkowski, Professor, American University, USA
- 6 **Title:** *Beyond Electricity: Avoiding Over-dependence upon, And Over-investment in, The Grid, Instead for Complete Hydrogen Energy Systems*
Mr. William C. Leighty, Director, The Leighty Foundation, USA; Principal, Alaska Applied Sciences, Inc., USA

The 3rd International Congress of Environment

ICE 01: Energy, Environment, Economy and Policy

Time: 09:00-10:20, January 09, 2023 (Monday); Place: Azalea, 3F, Hotel emisia Sapporo

Chair **Dr. John McCollough**, Associate Professor, Lamar University, USA

09:00-09:05 **Chair's Introduction**

09:05-09:30 **Title:** *The Future of Sustainability Standards*

Dr. Tobi Ann Petrocelli, Head of Sustainable Business Office for the Americas, MUFG Bank Ltd., USA

09:30-09:55 **Title:** *Pollution Havens and Their Relationship to the Environmental Kuznets Curve: The Case of the U.S. Tire Industry*

Dr. John McCollough, Associate Professor, Lamar University, USA

09:55-10:20 **Title:** *Can Central Heating System Lead to Energy Conservation? Evidence from a Hokkaido Household Survey*

Dr. Shigeru Matsumoto, Professor, Aoyama Gakuin University, Japan

ICE 02: Renewable Energy and Environmental Technologies

Time: 10:35-12:00, January 09, 2023 (Monday); Place: Azalea, 3F, Hotel emisia Sapporo

Chair **Dr. Rolf Katzenbach**, Professor, Technical University of Darmstadt, Germany

10:35-10:40 **Chair's Introduction**

10:40-11:00 **Title:** *Geothermal Energy · Sustainable and Environmentally Friendly Energy Supply in Urban Areas*

Dr. Rolf Katzenbach, Professor, Technical University of Darmstadt, Germany

11:00-11:20 **Title:** *Nanomaterials Enhanced Mixed Matrix Membranes for Desalination and Water Treatment*

Dr. Zongli Xie, Research Group Leader and Principal Research Scientist, CSIRO Manufacturing, Australia

11:20-11:40 **Title:** *The Potential Opportunities of the Fourth Generation Universities to Achieve Regional Carbon Neutrality: Case Study from Bulgaria*

Dr. Velizara Pencheva, Research Director, University of Ruse, Bulgaria

11:40-12:00 **Title:** *Agroforestry: The Last Frontier for Climate Change Adaptation and Mitigation*

Dr. Bhim Bahadur Ghaley, Associate Professor, University of Copenhagen, Denmark

ICE 03: Environmental Analysis and Solutions

Time: 10:55-12:20, January 10, 2023 (Tuesday); Place: Crown, 3F, Hotel emisia Sapporo

Chair	Dr. Laurence Loyon , Research Engineer, INRAE, France
10:55-11:00	Chair's Introduction
11:00-11:20	Title: <i>Spatial Statistics: The Confluence of Statistics and Data Science</i> Dr. Hao Zhang , Professor, Purdue University, USA
11:20-11:40	Title: <i>The Usefulness of Public Data to Target Additional Spatialized Measures to Reduce Nitrate Pollution of Surface Water: The Case of Brittany (France)</i> Dr. Laurence Loyon , Research Engineer, INRAE, France
11:40-12:00	Title: <i>Consumer Behavior in Choosing Microplastic Contaminated Seafood across Different Countries: The Role of Cultural and Attitudinal Factors</i> Dr. Holly Wang , Professor, Purdue University, USA
12:00-12:20	Title: <i>ELTEZAM Environmental Inspection System for Industrial Facilities and Development Projects in Abu Dhabi Emirate</i> Mr. Abdulrahman Ahmed Qaderi , Compliance and Enforcement Inspector, Environment Agency - Abu Dhabi, UAE

ICE 04: Video Forum

- 1 **Title:** *Power Industry of the World and Its Impact on Climate and Environment*
Dr. Igor Pioro, Professor, University of Ontario Institute of Technology, Canada
- 2 **Title:** *Development of a Novel Metallic Nuclear Fuel for Fast Neutron Reactors*
Dr. Di Yun, Professor, Xi'an Jiaotong University, China
- 3 **Title:** *Preliminary Study on Electron Spin Resonance Dosimetry Using Affected Cattle Teeth due to the Fukushima Daiichi Nuclear Power Plant Accident*
Dr. Kazuhiko Inoue, Chairman, Medical Corporation Yamabuki Association, Japan
- 4 **Title:** *Regulation Strategies to Sustain Functional Microbial Community Under Inhibition: Biopromoters*
Dr. Yingxin Zhao, Associate Professor, Tianjin University, China
- 5 **Title:** *Farmers' Attitudes and Perceptions and the Effects of the Grain for Green Project in China: A Case Study in the Loess Plateau*
Dr. Xiang Li, Assistant Professor, Northwest A&F University, China
- 6 **Title:** *Is there a Reversely Directed Force of Gravitation in Deep Interior of the Earth?*
Dr. Subhasis Sen, Retired Scientist, CSIR, India
- 7 **Title:** *Ternary Chalcogenide Semiconductor Thin Films by Electrodeposition for Photoelectrochemical Applications*
Dr. Nini Rose Mathews, Scientist, Universidad Nacional Autónoma de México, Mexico
- 8 **Title:** *Transparent Thermal Insulations Filled-Low Global Warming Potential Refrigerants as Bioclimatic Systems to Heat and Cool Buildings*
Dr. Agustín Torres Rodríguez, Professor, National Autonomous University of Mexico and DeLsalle Bajío University, Mexico

The 10th Annual Global Congress of Catalysis

GCC 01: The Breaking Research of Catalysis and Application (Part I)

Time: 15:55-18:00, January 10, 2023 (Tuesday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair	Dr. Frédéric Bihel , Research Director, University of Strasbourg, CNRS, France
15:55-16:00	Chair's Introduction
16:00-16:20	Title: <i>In Situ Formation of Cationic π-Allylpalladium Precatalysts in Alcoholic Solvents: Application to C–N Bond Formation</i> Dr. Frédéric Bihel , Research Director, University of Strasbourg, CNRS, France
16:20-16:40	Title: <i>Remediation of Contaminated Groundwater Using Colloidal Carbon Activated Persulfate System</i> Dr. Won Sik Shin , Professor, Kyungpook National University, South Korea
16:40-17:00	Title: <i>Preparation and Electrocatalytic Properties of Pt/Au Bimetallic Nanoparticles Modified Copper Hydroxide Nanosheet Electrode</i> Dr. Meng-Yi Bai , Professor, National Taiwan University of Science and Technology, Taiwan
17:00-17:20	Title: <i>Degradation of Phenol by Ball-milled Activated Carbon (ACBM) Activated Dual Oxidant (Persulfate/Calcium Peroxide) System: Effect of Preadsorption and Sequential Oinjection</i> Mr. Md Abdullah Al-Masud , Ph.D. Student, School of Architecture, Civil, Environmental and Energy Engineering, Kyungpook National University, South Korea
17:20-17:40	Title: <i>Porous Nanocomposite Coating Elaboration Platform for Photocatalysis</i> Shutong Lai , Ph.D. Student, Institut FEMTO-ST, UMR 6174 CNRS, Université de Bourgogne Franche-Comte, France
17:40-18:00	Title: <i>A Highly Efficient and Stereoselective Rare Earth Metal Catalyst Systems for Butadiene Polymerization</i> Dr. Shixuan Xin , Distinguished Professor, Northeast Petroleum University, China

GCC 02: The Breaking Research of Catalysis and Application (Part II)

Time: 09:00-10:05, January 11, 2023 (Wednesday); Place: Lailic, 3F, Hotel emisia Sapporo

Chair	Dr. Françoise Colobert , Professor, University de Strasbourg, France
09:00-09:05	Chair's Introduction
09:05-09:25	Title: <i>Asymmetric Catalysis Towards the Control of Atropisomerism</i> Dr. Françoise Colobert , Professor, University de Strasbourg, France
09:25-09:45	Title: <i>Ethylene Activity and Fischer Tropsch Synthesis: New Perspectives in Reaction Mechanism</i> Dr. Xinying Liu , Professor and Co-Director, University of South Africa, South Africa
09:45-10:05	Title: <i>Perylenediimide/Graphite Foil Based Electrode Materials with Outstanding Cycling Stability for Symmetric Supercapacitor Device Architectures</i> Mr. Amol Marotrao Kale , Ph.D. Scholar, Electromaterials Science Laboratory, Dept. of Advanced Components and Materials Engineering, Sunchon National University, South Korea

GCC 03: Video Forum

- 1 **Title:** *Novel Strategies for Single-Atom Catalysts*
Dr. Yazhou Zhou, Associate Professor/Group Leader, Jiangsu University/Max Planck Institute for Polymer Research, China/Germany
- 2 **Title:** *Study on Nano-/2D Materials for Hydrogen Evolution and Storage*
Dr. Haizhi Song, Professor, Southwest Institute of Technical Physics, China
- 3 **Title:** *Distal Functionalization via Transition Metal Catalysis*
Dr. Haibo Ge, Associate Professor, Department of Chemistry & Biochemistry, Texas Tech University, Lubbock, TX, USA
- 4 **Title:** *Regioselective Markovnikov Hydrofluoroalkylation of Alkenes*
Dr. Jinsheng Yu, Professor, East China Normal University, China
- 5 **Title:** *The Verification of Denominator / Numerator accumulating and the IUPR of Vehicles in China*
Mr. Guogang Qian, Senior Engineer, CATARC Co., Ltd, China

Posters & Papers

- WGC 01 **Title:** *Leukocyte Interleukin, Injection (Multikine) [LI (MK)] Objective Early Response (CRs/PRs) and Overall Survival (OS) in Locally Advanced Disease Treatment Naive Squamous Cell Carcinoma of the Head and Neck (SCCHN) – A Randomized Controlled Pivotal Phase 3: The IT-MATTERS Study (clinicaltrials.gov NCT01265849)*
Dr. Eyal Talor, Chief Scientific Officer, CEL-SCI Corp., USA
- WGC 02 **Title:** *Valoctocogene Roxaparvovec for Severe Hemophilia A*
Dr. Wing Yen Wong, Special Advisor to President of Worldwide Research and Development, Prior GVP, Head Global Medical Affairs, BioMarin Pharmaceutical, USA
- WGC 03 **Title:** *Applications of Terahertz Waves on the Penetration Characterization in Various Composites*
Dr. Kwang-Hee Im, Professor, Woosuk University, South Korea
- WGC 04 **Title:** *Correlating Genotype and Phenotype Data to Generate Personalized Solutions to Improve Long COVID Symptoms*
Dr. Vincent Chun Xin Gao, Chief Technology Officer, Govita Tech Limited, Hong Kong, China
- WGC 05 **Title:** *High-Throughput Skim Sequencing as an Effective Tool for Lineage and Hybrid Identification in the Banana Family (Musaceae)*
Dr. Shu-Miaw Chaw, Distinguished Research Fellow, Biodiversity Research Center, Academia Sinica, Taiwan
- WGC 06 **Title:** *Transcriptome Analysis of Vitamin A Deficiency Models on Retinal Dysplasia*
Dr. Lin Chen, Children's Hospital of Chongqing Medical University, China
- WGC 07 **Title:** *Dynamic Changes of Cell Composition and Gene Expression in Rat Dorsal Root Ganglion During Development Revealed by scRNAseq Analysis*
Jiaqi Zhang, Postgraduate, Beijing Proteome Research Center, Beijing Institute of Lifeomics, China

Posters & Papers

- NT 08 *Title: Association of Vitamin B12, Vitamin D and Thyroid-Stimulating Hormone with Fatigue and Neurologic Symptoms in Patients with Fibromyalgia*
Dr. Bala Munipalli, Specialist, Mayo Clinic, USA
- NT 09 *Title: Rare Case of Acute Pediatric Bacterial Meningitis Due to Pseudomonas Putida*
Dr. Grishma V. Kulkarni, Assistant Professor, Malla Reddy Institute of Health Sciences, India
- NT 10 *Title: Weight Maintenance in Motor-Complete Tetraplegia*
Dr. Kye Hee Cho, Professor, CHA University, South Korea
- AnalytiX 11 *Title: Hereditary and Physical Properties in HTSC-Thick Films after Processing HTSC-Powders by Method of the Electromagnetic Separation*
Dr. E. L. Broide, Investigator, The Racah Institute of Physics, Israel
- AnalytiX 12 *Title: The Segregation and Enrichment of Magnetic, Nonmagnetic, Superconducting Particles in a Magnetic Fluid under the Influence of the Sinusoidal, Rotating Magnetic Field*
Dr. E. L. Broide, Investigator, The Racah Institute of Physics, Israel
- WCFN 13 *Title: Meat in the Work of Moses Maimonides*
Dr. Wilhelm Kaltenstadler, Professor, Benzin Foundation Frankfurt, Germany
- WCO 14 *Title: Valorization of Fish Filleting Co-products to Functional Protein Ingredients by Cross-processing Them with Agricultural Side Streams or Seaweeds*
Dr. Jingnan Zhang, Doctoral Researcher, Chalmers University of Technology, Sweden
- WCO 15 *Title: Design, Development and Performance Evaluation of Wind-Assisted Ship Propulsion Systems*
Dr. Heng Zhu, Doctoral Researcher, Chalmers University of Technology, Sweden
- WCO 16 *Title: High Food Value of the Sea Cucumber Apostichopus japonicus and the Red King crab Paralithodes camtschaticus*
Dr. Tatyana Sikorskaya, Scientific Researcher, A.V. Zhirmunsky National Scientific Center of Marine Biology, Far Eastern Branch, Russian Academy of Sciences, Russia
- WCO 17 *Title: Presence of Microplastics in Urban Wastewater Treatment Plants in The Bay of Cadiz (Spain) and Their Receiving Watercourses*
Dr. Ana Amelia Franco del Pino, Ph.D. Student, University of Cádiz, Spain
- GCKE 18 *Title: Nature's Pick-Up Tool, The Stark-Effect Induced Gailitis Resonances and Applications*
Dr. Chi Yu Hu, Professor, California State University, USA
- NT 19 *Title: Analysis of Failed Mechanical Thrombectomy with a Focus on Technical Reasons*
Dr. Seung Yoon Song, Clinical Assistant Professor, The Catholic University of Korea, South Korea