SCIENTIFIC SESSIONS

Keynote Lecture I

Dr. Kevin Teichman
United States Environmental Protection Agency
USA

"Environmental OMICS: A Systems Biology Approach to Research on Environmental Stress and Health"

Keynote Lecture II

Dr. Linda S. Birnbaum
National Institute of Environmental Health Sciences
USA

"Our Environment, Our Health: You Can't Change Your Genes, but You Can Change Your Environment"

Keynote Lecture III

Prof. Sue-Goo Rhee
Yonsei University
Korea

"Adverse and Beneficial Effects of Reactive Oxygen Species Produced by Cytochrome P450s"

Keynote Lecture IV

Prof. Michael Karin
University of California, San Diego
USA

"Virchow Explained: The Origin of Tumor Elicited Inflammation and its Significance"

Distinguished Lecture I

Dr. Jun Kanno
National Institute of Health Sciences
Japan

"Percellome Toxicogenomics, a Quantitative and Comprehensive Approach for Basic and Applied Toxicology"

Distinguished Lecture II

Prof. Robert Barouki
Paris Descartes University
France

"The Role of Adipose Tissue in Toxicology"

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Symposia

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
1	Advances in Biomonitoring for Occupational and Environmental Health	Maurizio Manno	Uniersity of Naples Federico II	Italy	Biomonitoring for Occupational Health Risk Assessment: State of the Art
		Ivo Iavicoli	Catholic University of Sacred Heart	Italy	Biomarkers of Nanomaterial Exposure and Effect: Current Status
		Magnus Akerstrom	Sahlgrenska University Hospital and Academy	Sweden	Urine Versus Kidney Cadmium in an Environmentally Exposed Population
		Sunghyouk Park	Seoul National University	Korea	Metabolomic Assessment of Cisplatin-Induced Idiopathic Toxicity
2	Risk Assessment for Food Chemicals	Alfonso Lampen	BfR	Germany	Risk Assessment of Heat-Induced Contaminants (MCPD Fatty Acid Esters) and
		Li Ning	CFSA	China	Brief Introduction of Works in Food Safety Risk Assessment in China
		Junghyuck Suh	FDA	Korea	Risk Assessment of Dioxins in Food for Korean population
		Jutta Tentschert	BfR	Germany	Food Contact Materials and the Migration of Chemicals into Foods
		Zhaoping Liu	CFSA	China	Dietary Exposure Assessment of Trans-Fatty Acids in China
3	Cancer Chemoprevention: Molecular Targets and Underlying Mechanisms	Marc Diederich	Laboratoire de Biologie Moleculaire et Cellulaire du Cancer (LBMCC)	Luxembourg	Natural Compounds as Inhibitors of the 10 Hallmarks of Cancer
		F. Peter Guengerich	Vanderbilt University School of Medicine	USA	Enzymes Involved in Metabolism of Carcinogens: Which Should be Modulated?
		Tony Ah-Ng Kong	Rutgers University	USA	Epigenetics of Dietary Phytochemicals in Cancer Prevention: A Focus on Nrf2
		Young-Joon Surh	Seoul National University	Korea	Xenohormetic Phytochemicals with Cancer Chemopreventive Potential
		Bernd Kaina	University Medical Center	Germany	Induction of DNA Repair in Cancer Protection and Therapy
4	Risk 21: Accurate, Resource Appropriate Risk Assessment	Alan Boobis	Imperial College London	United Kingdom	Why the Need for RISK21
		Timothy Pastoor	Syngenta	USA	The RISK21 Roadmap and Matrix
		Douglas Wolf	U,S, Environmental Protection	USA	RISK21 Case Studies
		Angelo Moretto	University of Milan	Italy	Applications to Cumulative Risk
5	3D Goes 3R – Complex in Vitro Methods for Modern Toxicity Testing	Ellen Fritsche	IUF	Germany	Introduction into 3D in Vitro Methods: Lessons from Skin and Brain
		Kyung-Min Lim	Ewha Womans University	Korea	A New 3D Human Corneal Epithelium Model Reconstituted with Human Limbal Epithelial Cells and its Application to Eye Irritation Tests
		Simon Messner	InSphero	Switzerland	A Novel Organotypic 3D Liver Model for Toxicity Studies
		Elaine Faustman	University of Washington	USA	Innovative 3-D Testicular Models for Toxicity Testing
6	Metabolomics for Discovery of Biomarkers of Chemical Toxicity and Mechanisms	Frank J. Gonzalez	National Cancer Institute	USA	Metabolomics for Discovery of Biomarkers of Chemical Toxicity and
		Wei Jia	University of North Carolina at Greensboro	USA	The Footprints of Gut Microbial - Mammalian Co-Metabolism
		Joo-Youn Cho	Seoul National University	Korea	Identification of Endogenous Metabolic Markers and Their Combination for CYP3A Activity Using Metabolic Profiling and Midazolam Pharmacokinetics
		Renke Dai	South China University of Technology	China	Metabolomics in the Monitoring of Drug Safety
7	Preclinical Imaging as an Approach to Enhance Translational Regulatory Science	William Slikker, Jr.	NCTR(National Center for Toxicological Research)	USA	Imaging Approaches for Use as Preclinical Assessment Tools: An Overview
		William Slikker, Jr.	NCTR(National Center for Toxicological Research)	USA	Imaging as an Approach to Define Nervous System Toxicology
		Keon Wook Kang	Seoul National University	Korea	In vivo Molecular Imaging for Drug Development
		Shintaro Nishimura	Astellas Pharma Inc	Japan	Translational PET Imaging for Safety Assessment
8-1	Translational Toxicology: Application of Basic Sciences to Clinical Practice-Part1	Kenneth McMartin	Louisiana State University	USA	Translation of Mechanistic Studies on Glycol-induced Renal Toxicity into Potential Antidotes
		Knut Erik Hovda	Oslo University Hospital	Norway	Formate Analysis for the Diagnosis of Methanol Poisoning: From a Basic Research Tool to a Diagnostic Tool for the Future
		Grant Cave	Tamworth Hospital	New Zealand	The Use of Intravenous Fat Emulsion Therapy to Alter Systemic Distribution of Cardiac Toxins
		Robert S. Hoffman	New York City Department of Health and Mental Hygiene	USA	Cocaine Poisoning. Enhancement of Normal Metabolism to Limit Toxicity
8-2	Translational Toxicology: Application of Basic Sciences to Clinical Practice-Part2	Timothy Anderson	Pfizer Inc.	USA	Translation of Pharmacologic and Toxicologic Effects of Biopharmaceuticals in Nonclinical Studies to Observations in Humans
		Bruno Megarbane	Poison center of Paris	France	Respiratory Toxicity of Maintenance Therapy in Drug Addicts: Contribution of Animal Models
		Stefano Bonassi	IRCCS San Raffaele Pisana	Italy	From Toxicology to Clinic: A Systems Medicine Approach Based on Biomarkers
9	Heavy Metal Toxicology: Update and Childhood Poisoning	Alan Woolf	Harvard Medical School	USA	Pathophysiology & Treatment of Childhood Lead Poisoning
		Robert Wright	Mount Sinai School of Medicine	USA	Genetic Susceptibility to Chemicals is a New Field That Addresses
		Curtis Klaassen	University of Kansas Medical Center	USA	Protective Mechanisms of Cells Against Cadmium Toxicity
		Akira Naganuma	Tohoku University	Japan	Screenings for Proteins that Influence Sensitivity of Cells to Methylmercury
		Paul Dargan	Guy's and St Thomas' NHS Foundation Trust	United Kingdom	Overview of the Childhood Lead Poisoning Outbreak in Zamfara, Nigeria 2010 to date
		Bruce Lanphear	Simon Fraser University	Canada	Low-level Lead Toxicity: The Ongoing Search for a Threshold
10	Update on Toxicology in Human Pregnancy	Laura Yates	UK Teratology Information Service (UKTIS)	United Kingdom	New Insights into the Mechanisms of Teratogenesis
		William Webster	University of Sydney	Australia	Benefits and Pitfalls of Animal Research for Predicting Adverse Fetal Effects of Drugs and Chemicals in Humans
		Christina Chambers	University of California, San Diego	USA	Epidemiologic Methods for Detecting Adverse Fetal Effects of Human Exposure to Medicines During Pregnancy
		Debra Kennedy	Royal Hospital for Women	Australia	Communicating Information on Risks and Benefits of Medicines Used in Pregnancy
		Simon Thomas	Newcastle University	United Kingdom	Poisoning and Drug Overdose in Pregnancy

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No.	Session Title	Speaker Name	Organization	Country	Presentation Title
11	Nanotechnology: Toxicology and Human Health	Kai Savolainen	Finnish Institute of Occupational Health	Finland	Predictive Risk Assessment of Engineered Nanomaterials
		Bengt Fadeel	Karolinska Institute	Sweden	Understanding Interations of Engineered Nanomaterials with Biological Systems: Omics/ Systems Biology Approaches
		Harri Alenius	Finnish Institute of Occupational Health	Finland	Mechanisms of Nanomaterial Induced Pulmonary Inflammation
		I lJe Yu	Hoseo University	Korea	Genotoxicity of Carbon Nanotubes
12	Stem Cells in Toxicology: Fundamental Biology and Practical Considerations	Mariusz Ratajczak	University of Louisville	USA	The Presence of Very Small Embryonic Like Stem Cells (VSELs) in Adult Tissues And An Emerging Role of Microvesicles, Exosomes and Paracrine
		James E. Trosko	Michigan State University	USA	IRole of Genetic and Environmental Factors on Pre-Disposition to Diseases Later in Life: Alteration of the Quality & Quantity of Organ-Specific Adult Stem Cells as the Basis for the Barker Hypothesis
		Kyung-Sun Kang	Seoul National University	Korea	Drug Screening and High Through-put Toxicological Prescreening using
		Eui-Bae Jeung	Chungbuk National University	Korea	Evaluation of Developmental Toxicity using Mouse and Human Embryonic
		Andreas Kurtz	Charite University Medicine Berlin	Germany	3D Models for in Vitro Toxicological Testing
13	Epigenetic Dysregulation during Chemical Carcinogenesis	Regina M. Santella	Columbia University	USA	DNA Methylation Biomarkers in Molecular Epidemiology Studies of Cancer
		Yi-xiong Lei	Guangzhou Medical University	China	Aberrant Methylation and lncRNAs Expression Signatures during Malignant Transformation of Human Bronchial Epithelial Cells Induced by Cadmium
		Wen Chen	Sun Yat-sen University	China	Epigenetic Dysregulation During Chemical Carcinogenesis
		Jeung Whan Han	Sungkyunkwan University	Korea	Depletion of Embryonic Stem Cell Signature by Epigenetic Regulation of Nanog Gene in NCCITCells
14	Applications of PBPK Modeling in Risk Assessment of Environmental Contaminants	James Bruckner	University of Georgia	USA	Incorporation of Maturational Changes in Pyrethroid Kinetics into PBPK Models for Children
		Miyoung Yoon	Hamner Institute for Health Sciences	USA	Evaluating Early Life Sensitivity to Pyrethroids by Physiologically Based Pharmacokinetic (PBPK) Modeling Supported by In Vitro Data
		Gunnar Johanson	Karolinska Institute	Sweden	Acrylonitrile Concentrations Hypothetically Modeled in Humans
		Hiroshi Yamazaki	Showa Phamaceutical Universirty	Japan	Derivation of Chemical-Specific Assessment Factors by Population PBPK Modeling
		Kyu-Bong Kim	Dankook University	Korea	Risk Assessment of Cadmium using Physiologically-based Pharmacokinetic
15	Are There Thresholds for Genotoxicity?	Anthony Lynch	GlaxoSmithKline	United Kingdom	Impact of Moving from Qualitative to Quantitative Approach on Genotoxicity Risk Assessment
		Bhaskar Gollapudi	(Retired)Dow Chemical Co.	USA	A Critical Assessment of Low Dose Responses in Genetic Toxicology
		George Johnson	Swansea Univ.	United Kingdom	Mechanisms Underlying the Non-linear Dose-responses for DNA-reactive Genotoxicants
		Takehiko Nohmi	National Institute of Health Sciences	Japan	DNA Repair and Translesion DNA Synthesis as Constituents of “Threshold” of Genotoxicity
		Shoji Fukushima	Japan Bioassay Research Center	Japan	Threshold of Genotoxic Carcinogens: Conclusion from Mechanism-Based Carcinogenicity Studies
16	National Coordination of Toxicology Research and Testing: Perspectives from the Korea and US “National Toxicology Programs”	John Bucher	NIEHS/NTP	USA	Introduction to the Session and a Brief History of the US National Toxicology
		Nigel Walker	NIEHS/NTP	USA	Overview of Research and Testing in the US National Toxicology Program
		Mary Wolfe	NIEHS/NTP	USA	Overview of Policy and Analysis Activities within the US National Toxicology Program
		John Bucher	NIEHS/NTP	USA	New Directions in Toxicology and International Collaborations
		Soon Young Han	NIFDS/KFDA	Korea	Overview of Research and Testing in the Korea National Toxicology Program
		Ho-sang Jeong	NIFDS/KFDA	Korea	Current Status and Perspectives of Toxicogenomics in the KFDA
		Jayoung Jeong	NIFDS/KFDA	Korea	Ongoing Nano Research on the Safety Issues of the Ministry of Food and Drug
		Jong Kwon Lee	NIFDS/KFDA	Korea	Carcinogenicity Study of 3-Monochloropropane-1, 2-diol (3-MCPD)
		Hyung Sik Kim	Sungkyunkwan University	Korea	Efforts on Applying New Technologies to Develop Toxicity Test Methods in the KNTP for Green Growth
17	Recent Topics about Risk Assessment of Nanomaterials for Nano-Safety Science	Chunying Chen	National Center for Nanoscience and Technology	China	Understanding Key Factors that Determine the Toxicity of Nanomaterials
		Yasuo Yoshioka	Osaka University	Japan	The Importance of Systemic Nanotoxicological and Toxicokinetic Analysis for Ensuring the Safety of Nanomaterials
		Kenneth Dawson	University College Dublin	Ireland	Nanoscale Interface between Engineered Matter and Living Organisms:
		Myung-Haing Cho	Seoul National University	Korea	Zinc Oxide Nanoparticle Inducedautophagic Cell Death and Mitochondrial
18	Complexities and Challenges in Toxicity and Treatment of Organophosphate Poisoning	Tetsuo Satoh	Chiba University	Japan	An Introduction to Complexities of Organophosphate Toxicity
		Ramesh C. Gupta	Murray State University	USA	Recent Developments in Toxicity and Treatment of Organophosphates
		Eugenio Vilanova	Universidad Miguel Hernandez	Spain	Highly Sensitive Esterases other than Cholinesterases: Potential New Targets for OPs Detected by Advanced Kinetic Approaches
		Takemi Yoshida	Showa University	Japan	Nerve-gas Sarin-exposed Victims in Tokyo Subways Eisasters and their Post-exposed “Indefinite Complaint” and a Proposal of Possible Therapeutic
		Kentaro Tanemura	Tohoku University	Japan	Delayed Effects on CNS Induced by Disturbance of Neural Activity during Development - Behavioral Impairment in Male Adult Mice Induced by Postnatal Oral Intake of Acephate -
19	Application of Systems Biology for Cancer Biomarkers	Thomas Sutter	University of Memphis	USA	Integration of Toxicogenomic and Metabolomic Studies to Identify Biomarkers of Human Responses to Dioxin
		Je-Yoel Cho	Seoul National University	Korea	Lung Cancer Biomarkers: Discovery and Clinical Assay Development
		Raymond Novak	Shriners Hospitals for Children International	USA	Insulin Signaling through the PI3, AkT, mTOR Pathway in the Regulation of Gene and MicroRNA Expression in Primary Cultured Rat Hepatocytes
		Masayuki Yamamoto	Tohoku University Graduate School of Medicine	Japan	Keep1-Nrf2 System and Toxicology

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Symposia

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
20	Genetics & Epigenetics – The Link Between Individual Genomes-Environment Interaction and Toxicity	John Edgar French	NIEHS/NTP	USA	Population Based Mouse Model for Toxicology and Carcinogenesis
		Suyinn Chong	Mater Medical Research Institute	Australia	Gestational Programming of Offspring Phenotype by Maternal Ethanol Consumption in the Mouse
		Tim Wiltshire	University of North Carolina	USA	Genetic Approaches to Identifying Toxicity Pathways
		David Threadgill	North Carolina State University	USA	Modeling Population Exposures in Mice : the Case of Tricholoethylene
21	Toxicity of Herbs & Dietary Supplements: Global Efforts at Prevention	Vanessa Steenkamp	University of Pretoria	South Africa	Disease Preventive Ability as well as the Toxicity of African Herbal Remedies
		Alan Woolf	Harvard Medical School	USA	Metals & Pesticides Contaminants In Certain Herbs & Herbal Products
		Jou-Fang Deng	Taipei Veterans General Hospital	Taiwan	The Spectrum of Herbal Poisonings
		Thomas YK Chan	The Chinese University of Hong Kong	Hong Kong	Risk Management Approach to the Toxicological Problems Associated with Herbal Medicines
22	Free Radical Toxicology	Thomas W. Kensler	University of Pittsburgh	USA	Targeting Keap1-Nrf2 Signaling for Disease Prevention
		Myung-hee Jung	Sungkyunkwan University	Korea	The Therapeutic Potential of a ROS-induced Modified Guanine Nucleoside, 8-
		Chunxu Hai	The Fourth Military Medical University	China	Breakthrough in Mechanism and Preventive Strategy of Acute Lung Injury Induced by Phosgene
		Mats-Olof Mattsson	AIT	Australia	Oxidative Stress and Biological Effects of Extremely Low Frequency Magnetic Fields
23	New Risk Assessment of Airborne Materials and Health Technologies in Respiratory System	Scott Loveless	DuPont Haskell Global Centers	USA	Replacing Animal Inhalation Studies Designed for Human Risk Assessments with In Vitro Technologies: How Close Are We?
		Yong Chul Lee	Chonbuk National University Medical School	Korea	The Organelle-complex Targeting Health Technology in Respiratory System: Mitochondria and ER in Pulmonary Disorders
		Jürgen Borlak	Hannover Medical School	Germany	Safety and Proof-of-Concept Efficacy of Inhaled Drug loaded Nano- and Immunonanoparticles in a c-Raf Transgenic Lung Cancer Model
		Hirano Seishiro	NIES, Chiba University	Japan	A Role of Macrophage Receptor with Collagenous Structure (MARCO) in Cellular Uptake of Particulate Substances
24	Environmental Burden of Disease: How to Assess and Prioritize Actions	Carolyn Vickers	WHO	Switzerland	Burden of Disease due to Chemicals: Symposium Introductory Overview
		Byung-Kook Lee	Guideline Development Group	Korea	Lead: Multiple Impacts, Multiple Sources of Exposure, Key Intervention Strategies
		Keri Fulcher	Tetra Tech Sciences	USA	Focusing Public Health and Occupational Intervention Strategies for Mercury
		Andrew Dawson	Royal Prince Alfred Hospital	Australia	Pesticides: A Spectrum of Risk
25	Korean Ginseng ;Efficacy and Safety	Young Jack Lee	LSK Global PS	Korea	Safety of Korean Red Ginseng
		Young-Keol Cho	University of Ulsan College of Medicine	Korea	Unusual Frequent Genetic Defects in HIV-1 Infected Long-term Survivors for 25 years in the Absence of Antiretroviral Therapy: Its Association with
		Liang Liu	Macau University of Science and Technology	China	Suppression of Carcinoma Growth and Molecular Targets of the Ethanol Extracts of Panax Ginseng
		Mark Blumenthal	American Botanical Council	USA	A Brief Review of the Safety and Efficacy of Asian Red Ginseng Root
26	Active Metabolites: Potential Target for New Drug Discovery and Toxicity	Kevin Park	University of Liverpool	United Kingdom	The Role of Reactive Metabolite Formation in Adverse Drug Reactions
		Allan E. Rettie	University of Washington	USA	Mechanisms of drug interactions caused by amiodarone metabolites: Roles of reversible and time-dependent inhibition.
		Dafang Zhong	Shanghai Institute of Materia Medica	China	Metabolic Bioactivation Potentially Related to Toxicities of some Herbal Drug Components
		Ann K. Daly	Newcastle University	United Kingdom	Genetic Factors Affecting Metabolism to Reactive Intermediates in Idiosyncratic Hepatotoxicity
27	The Evidence-Based Toxicology Collaboration	Ian Kimber	University of Manchester	United Kingdom	Evidence Based Toxicology: Background and Purpose
		Martin Stephens	Johns Hopkins University	USA	The Evidence-based Toxicology Collaboration
		Sebastian Hoffmann	seh consulting + services	Germany	The EBTC's Focus on Evidence-Based Methods
		Richard Judson	U.S. Environmental Protection Agency	USA	EBT - The Toolbox for Assessment of Tests and Testing Strategies

Round Table

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
1	Towards improved chemical risk assessment: international challenges and opportunities	Linda S. Birnbaum	NIEHS	USA	Incorporation of High-throughput data in risk assessment
		Paolo Vineis	Imperial College	United Kingdom	Application of Molecular Epidemiology in Risk Assessment
		Daniel Krewski	The University of Ottawa	Canada	Tox21
		Kurt Straif	IARC/WHO	France	The IARC Monographs. From Hazard Identification to Risk Assessment.
		Carolyn Vickers	WHO	Switzerland	Global institutional networking to strengthen chemical risk assessment
2	The Regulatory framework for cosmetics: current status, future prospects	Alan Boobis	Imperial College London	United Kingdom	Round Table on toxicological publications at ICT2010, Barcelona
		Chiharu Tohyama	University of Tokyo	Japan	Recent developments reflected by a toxicological journal, Toxicological Sciences
		Dirk Pallapis	IPA-DGUV	Germany	Present state and problems in the publication of epidemiological data
		Hermann M. Bolt	Leibniz Research Centre	Germany	Future trends in electronic publishing

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Workshop

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
1	Pesticide exposure during early – life stages	Sameeh A. Mansour	National Research Centre	Egypt	Impact of Pesticide Exposure during Gestation and Lactation
		Laurence Gamet-payrastre	TOXALIM, Toulouse	France	Dietary Exposure to a Low Dose of Pesticides Alone or as a Mixture: Impact on Hematopoiesis
		Cécile Canlet	TOXALIM, Toulouse	France	The Metabonomic Approach Based on 1H NMR used to Learn about Biological Fingerprint upon Pesticides Exposure
		Kyung-Chul Choi	Chungbuk National University	Korea	Estrogenicity of Methoxychlor as an Endocrine Disrupting Chemical
		Jason R.Richardson	Environmental and Occupational Health Sciences Institute	USA	Developmental Pyrethroid Exposure Reproduces Features of Attention-Deficit Hyperactivity Disorder: Role of Epigenetic Alterations in the Dopamine System
2	How to ensure consumer safety of consumer products in a globalized world?	Seok Kwon	Procter & Gamble	Singapore	An Exposure-Based Risk Assessment Approach to Safety Evaluation of Consumer Products
		Toshio Kasamatsu	Kao Corporation	Japan	Risk Assessment of Impurities Found in a Consumer Product: Use of Hemoglobin Adducts to Determine Human Exposure to Reactive Chemicals
		Morihiko Hirota	Shiseido	Japan	Development of Non-animal Safety Assessment System in Shiseido
		Heike Scheffler	Procter & Gamble	China	Specific Aspects When Assessing the Consumer Safety of Hair Care Products
		Zhang Hongwei	China CDC	China	The Safety Evaluation for Cosmetics and Cosmetic Raw Materials in China
3	Energy crisis, Fossil fuel and Biofuels – adverse health effects	Salmaan Inayat-Hussain	Universiti Kebangsaan Malaysia	Malaysia	Toxicological Effects of Particulate Emissions from Biomass Combustion
		Pasi I. Jalava	University of Eastern Finland	Finland	Health Risk Assessment of Exhaust from Conventional and New Technology Engines
		Paul Scheepers	Radboud University Nijmegen Medical Centre	Netherlands	Occupational Exposure to Mercury and Benzene in Petrochemical Industries
4	Threshold of Toxicological Concern (TTC) Approach for the Safety Assessment of Chemical Substances	Corrado L Galli	University of Milan	Italy	Application of the TTC Concept to Unknown Substances Found in Analysis of Foods
		Petra Kern	Procter & Gamble Technology (Beijing)	China	Use of Threshold of Toxicological Concern (TTC) in the Risk Assessment for Cosmetics and Personal Care Products
		Sang-Hee Jeong	Hoseo Toxicology Reasearch Center	Korea	Application of TTC on drug impurities
5	Target organ toxicology and mechanism	Byung-Hoon Lee	Seoul National University	Korea	Double-Edged Role of AMPK in Chemical-induced Multiple Metabolic Toxicities
		Jose Manautou	University of Connecticut	USA	Genomic Identification of Novel Pathways that Confer Resistance to Chemical-Induced Liver Injury: Validation using Cellular and Transgenic Models
		Jae-Sung Kim	University of Florida	USA	Autophagy in Liver Toxicity
		Yoshito Kumagai	University of Tsukuba	Japan	Role of the Keap1/Nrf2 Pathway in Methylmercury-mediated Neurotoxicity
6	Cellular Phone and Electromagnetic Field Radiation (EFR): Current Status of Safety	David McCormick	IIT Research Institute	USA	Integration of Experimental and Epidemiologic Data into a 'Weight of the Evidence' Evaluation of Possible Risks of Exposure to Radiofrequency Fields Generated by Wireless Telephones
		Yun-Sil Lee	Ewha Womans University	Korea	The Animal Studies of Combined RF-EMF Exposure
		Mats-Olof Mattsson	AIT	Australia	European Evaluation of EMF Health Issues: Opinions by the Independent Scientific Committee on Emerging and Newly Identified Health Risks (SCENIHR)
7	Alternative test methods and International regulatory perspectives	Soon Young Han	KoCVAM	Korea	KoCVAM; Contributions to the implementation of alternative test methods in Korea. and future plans
		Kojima Hajime	JaCVAM	Japan	JaCVAM: Recent Progress and Future Plans for the Validation and Acceptance of Alternative Testing in Japan
		Warren Casey	ICCVAM/NICEATM	USA	A New Strategic Direction for ICCVAM and NICEATM, Future Plans for the Validation and Acceptance of AlternativeTest Methods in the U.S.
		Valerie Zuang	EURL ECVAM	Italy	Contributions to the Implementation of Alternative Test Methods in EU and Future Plans
		Erwin L. Roggen	3Rs Management and Consultancy	Denmark	Current Status of Develoment on Alternative Methods for Screening Skin Sensitizers
		Kye-Ho Shin	Amorepacific Co.	Korea	Current Status of Animal Alternatives for Cosmetics in Korea
		PV. Mohanan	Sree Chitra Tirunal Institute for Medical Science and	India	Toxicology of Tissue Engineered Medical Products
		Kyung-min Baek	Ministry of Food and Drug Safety	Korea	Regulatory Framework on Preclinical testing of Biopharmaceuticals in Korea - Focus on Biosimilar
		Lawrence Jacob	Charles River	United Kingdom	Preclinical Testing of Biosimilars

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Continuous Educational Course

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
1	Application of Biomarkers for Predictive Toxicology (Omics, MicroRNA, etc.)	Weida Tong	NCTR/FDA	USA	A Decade of Toxicogenomic Research Offers Unprecedented Opportunities
		Takeki Uehara	Shionogi & Co., Ltd	Japan	The Japanese Toxicogenomics Project: Collaborative Efforts on Developing Open TG-GATEs Database and Creation of Toxicogenomic Biomarkers
		Juergen Borlak	Hannover Medical School	Germany	Toxicology Model Building Based on Omics Datasets for the Prediction of Non-Genotoxic Liver Carcinogenesis
		Bob Van de Water	Leiden University	Netherlands	From Transcriptomics to RNAi-based Functional Genomics: Uncovering the Breaking Points of Toxicity
		Susanna-Assunta Sansone	University of Oxford	United Kingdom	Curate, Visualize, Analyze, Share and Publish
		Xiaohui Fan	Zhejiang University	China	Predicting Individuals Susceptible to APAP-Induced Liver Injury by Predose Transcriptional Profiling
2	Statistical Modeling and Data Analysis for Toxicological and Clinical Studies	James J. Chen	National Center for Toxicological Research	USA	Principle and Applications of Statistical Methods in Toxicology
		Jessica Kim	CBER/OBE/DB/FDA	USA	Statistical Modeling and Data Analysis for Toxicological and Clinical Studies: Principle and Application of Statistical Methods
		Hojin Moon	California State Univ. at LongBeach	USA	Statistical Decision-Making Algorithms for Toxicological and Clinical Studies
		Taewon Lee	Korea University	Korea	Statistical Modeling and Analysis of Toxicogenomics Data
		Kwan R. Lee	GlaxoSmithKline	USA	Robust Multivariate Signal Detection for Clinical Laboratory Safety Data Monitoring and Assessment
		Kijoung Song	GlaxoSmithKline	USA	Estimating the Heritability of Drug Efficacy and Safety from Clinical Trials
3	Risk Assessment: principles, application and future perspectives	Elaine M. Faustman	University of Washington	USA	Introduction and Welcome
		Byung-Mu Lee	Sungkyunkwan	Korea	
		A. Wallace Hayes	Harvard School of Public Health	USA	Risk Assessment Issues and Challenges: Defining the questions and Obtaining the data
		Byung-Mu Lee	Sungkyunkwan University	Korea	Risk Assessment in Korea–Using short term assay for hazard identification
		Elaine M. Faustman	University of Washington	USA	Quantitative Risk Assessment Approaches: Integrating Dose Response with Exposure Assessment
		A. Wallace Hayes	Harvard School of Public Health	USA	Risk Characterization using Mode of Action Concepts
		Elaine M. Faustman	University of Washington	USA	
	Applications of Risk Assessment: Case Studies	Mary Gulumian	University of the Witwatersrand	South Africa	Introduction and Welcome
		Lijie Fu	Chinese Society of Toxicology	China	
		Herman Autrup	University of Aarhus	Dennmark	Nanoengineered Materials
		Lewis Smith	Protection,Inc.	United Kingdom	Successful lessons from using mechanistic data for pharmaceutical assessment
		Heidi Foth	Institut fü rUmwelttoxikologie	Germany	Risk Assessment within REACH: Successes and Lessons Learned
		Elaine M. Faustman	University of Washington	USA	Closing remarks and Invitation to RA Poster session
4	An Integrated OMICS Approach & Nanoinformatics : Chemical Interactions and Mixture Toxicity	Yue Ge	US Environmental Protection Agency	USA	Principle and Applications of Statistical Methods in Toxicology
		Cesare Furlanello	Fondazione Bruno Kessler	Italy	Statistical Modeling and Data Analysis for Toxicological and Clinical Studies: Principle and Application of Statistical Methods
		Leming Shi	Fudan University	China	Statistical Decision-Making Algorithms for Toxicological and Clinical Studies
		Lei Guo	FDA	USA	Statistical Modeling and Analysis of Toxicogenomics Data
		Francesc Giralt	Universitat Rovira i Virgil	Spain	Robust Multivariate Signal Detection for Clinical Laboratory Safety Data Monitoring and Assessment
		Robert Rallo	Universitat Rovira i Virgil	Spain	Estimating the Heritability of Drug Efficacy and Safety from Clinical Trials

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5	Global progress in genotoxicity and carcinogenicity test methods	Takehiko Nohmi	National Institute of Health Sciences	Japan	Introduction: Genotoxicology and Carcinogenesis
		Anthony Lynch	GlaxoSmithKline	United Kingdom	Regulatory Genotoxicity & Carcinogenicity Testing and Global Trends
		Michael Fenech	CSIRO	Australia	Micronucleus Assays to Study Genotoxicity and Carcinogenesis
		Toshikazu Ushijima	National Cancer Center Research Institute	Japan	Epigenetic Alterations and Their Detection Methods
		Samuel Cohen	University of Nebraska Medical Center	USA	Trends in Chemical Carcinogenesis
6	Imaging Technology in Preclinical and Clinical Investigations	Jae Sung Lee	Seoul National University	Korea	Introduction to Preclinical PET and SPECT Imaging
		Kwangmeyung Kim	Korea Institute of Science and Technology	Korea	Molecular Imaging for siRNA Delivery System
		Kevin Francis	Imperial College	United Kingdom	Visualizing Disease Events and Drug Efficacy Studies In Vivo using Optical Imaging
		Sang Eun Kim	Seoul National University	Korea	Molecular Imaging-Based PK/PD Studies
		Christopher Contag	Stanford University	USA	Tools for Studying Cellular and Molecular Biology in Living Subjects

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Oral Session

No.	Session	Speaker Name	Organization	Country	Presentation Title
1	Oral Session 1	Petra Kern	Procter & Gamble	China	Bayesian Integrated Testing Strategy to Assess Skin Sensitization Potency: From Theory to Practice
		John Skoko	Johns Hopkins University	USA	The Role of Nrf2 on Hepatic VEGFA/VEGFR Expression and Vascularization
		Hyo-wook Gil	Soonchunhyang University Cheonan Hospital	Korea	Ratio of Angiopoietin-2 to Angiopoietin-1 predicts mortality in acute lung injury induced by paraquat
		Seico Benner	the University of Tokyo	Japan	Alterations in the Mesolimbic Dopaminergic System and Fear Related Emotional Functions In Mice Perinatally Exposed to TCDD
		Bruno Megarbane	INSERM U705, Paris-Diderot University	France	Role of P-glycoprotein in the development of tolerance to the analgesic and respiratory effects of buprenorphine in mice
		Younghyun Lee	School of Public Health, Seoul National University	Korea	DNA methylation in workers of nuclear power plants
		Charlotte Esser	Leibniz-Institute for Environmental Medical Research	Germany	Parameters of Metabolic Syndrome in Aryl Hydrocarbon Receptor Deficient Mice
		Cheng-Chi Chang	National Taiwan University	Taiwan	B cell lymphoma/ leukemia 10 regulated STAT1/S100P/ axis to promote oral cancer progression
2	Oral Session 2	Eva Cecilie Bonefeld-Jorgensen	Unversity of Aarhus	Denmark	Breast Cancer risk in Danish women: A case-control study on the risk of breast cancer upon exposure to perfluorinated compounds
		Chan Young Shin	Konkuk University	Korea	Chronic ethanol exposure to male mice before mating produces ADHD-like phenotype along with epigenetic dysregulation of dopamine transporter expression in mice offspring
		Jenny Baumann	Leibniz Research Institute for Environmental Medicine	Germany	Neurospheres as a Predictive 3D In Vitro Model for DNT Testing and Pathway Investigation in a Species-Specific Context
		Satoshi Kitajima	National Institute of Health Sciences	Japan	Application of Percellome Toxicogenomics approach to food safety: A flavor, estragole appears to be a PPAR-alpha agonist
		Michael Schnekenburger	Laboratoire de Biologie Moleculaire et Cellulaire du	Luxembourg	Epigenetic Alterations in Leukemia: a Target for DNA Demethylating Drugs
		Ming-Huan Chan	National Chengchi University	Taiwan	Protective effects of sodium benzoate on behavioral neurotoxicity induced by methamphetamine in mice
		Zhuqing LI	Jiangnan University	China	Oxidized Casein Induces Liver Injury in Mice Via Destruction of Antioxidant Defense System
		LI Chunqi	Hunter Biotechnology Company	China	Zebrafish: A Predictive Model for Assessing Compound Toxicity, Safety and Efficacy
3	Oral Session 3	Jayadev Raju	Health Canada	Canada	Food Borne Acrylamide Exposure Has Negligible Colon Cancer Risk in Two Rodent Models Of Colon Tumorigenesis Without Altering Tumor Suppressor Gene Promoter Methylation Status Or Cancer Gene Expression
		Kota Tanaka	Graduate School of Pharmaceutical Sciences, Osaka University	Japan	A basic study on the association between nanomaterials and brain disorder ~Distribution of silver nanoparticles into brain ~
		Shan Zienolddiny	National Institute of Occupational Health (NIOH)	Norway	The role of IL1-B gene on the inflammatory and genotoxic effects of multi-walled carbon nanotubes
		Jung Eun Koo	The Catholic University of Korea	Korea	Suppression of Toll-like receptor 4 activation by caffeic acid phenethyl ester is mediated by modification of Cys133 in MD2
		Ellen Fritsche	IUF-Leibniz Institute for environmental Research	Germany	Aryl Hydrocarbon Receptor Repressor (AHRR) Function Revisited: Repression Of CYP1 Activity In Human Skin Fibroblasts Is Not Related To AHRR Expression
		Jonghan Kim	Northeastern University	USA	Influence of altered iron metabolism on olfactory transport and neurotoxicity of manganese
		Sepideh Arbabi Bidgoli	Islamic Azad University,Pharmaceutical Sciences Branch	Iran	AhR levels in male and female environmental induced reproductive tumors: Association with hormonal and nutritional factors
		Michael Kyriakides	Imperial College London	United Kingdom	Metabonomic Analysis of the Metabolic Effects of Methotrexate and the Effect of NASH on Methotrexate Metabolism and Hepatotoxicity

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EOMICS

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
1	Keynote and Young Scientist Session I	James Kevin Chipman	The University of Birmingham	UK	The epigenome, transcriptome and metabolome associated with carcinogenesis in fish from the environment
		Shogo Takehisa	Gifu University	Japan	Metagenomic analysis of size classified particle in atmosphere
		Ji-Yeon Roh	Korea University	Korea	Changing of gene expression in controlling the exposure condition using passive dosing
		Hao Zhang	Xiamen University	China	Shotgun proteomic analysis reveals highly expressed proteins and the biological processes occurred in the blooming cells of a diatom Skeletonema costatum (Bacillariophyceae)
		Nivedita Chattergee	University of Seoul	Korea	Differential mode of biological interaction of Graphene Oxide (GO) vs Reduced Graphene oxide (rGO)
2	Molecular and cellular toxicity mechanisms and adverse health outcomes	Nan Mei	FDA/NCTR	USA	Toxicogenomic study of comfrey and riddelliine in rat livers
		Xiaojiang Tang	Guangdong Medical Laborat	China	Trimethyltin Chloride Exposure Chronically and the Risk of Developing Nephrolithiasis
		Chenli Liu	The University of Hongkong	China	Pattern formation by controlling cell movement
		Yiguo Jiang	Guangzhou Medical Universi	China	The roles and mechanisms of microRNAs in chemically induced lung and gastric carcinogenesis
		Zhixing Zhang	Fujian Agriculture and Fores	China	Proteomic and phosphoproteomic determination of the asynchronous filling of superior and inferior spikelets in rice (Oryza sativa. L)
		Yungang Liu	Southern Medical University		Genotoxicity of Benzene and its Hydroxylated Metabolites in V79-hCYP2E1-hSULT1A1 Cells
3	Protein responses to environmental exposures	Yue Ge	Environmental Protection A	USA	Protein responses of human lung epithelial cells to defined metal mixtures
		Hui Li	Sun Yat-sen University	China	Heterogeneous interactome between host and pathogens
		Xiangmin Lin	University of Washington	USA	iTRAQ labeling quantitative proteomics analysis antibiotic resistance mechanism in lamb mutant strain
		Hongxia Zhang	Chinese Academy of Science	China	Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity
		Zhixue Chen	Sun Yat-sen University	China	Characterization of protein species and weighted protein co-expression network regulation of Escherichia coli in response to serum killing using 2-DE based proteomics approach
		Juan Wang	Xiamen University	China	Quantitative proteomic analysis of Sparus macrocephlus small intestine and liver acute exposure to ockadaic acid
4	Mechanisms of toxicity: genomics-based and mechanism-based biomarkers	Ashok K Giri	Indian Institute of Chemical	India	Identification of arsenic induced toxicity and susceptible individuals through genetic, genomic and proteomic approaches
		Hiroki Nakae	Japan Microarray Consortiu	Japan	Standardization of Microarray Measurement by using of Standard Materials : For an Applications of Expression Analysis
		Wenxu Hong	Shenzhen Center for Disease	China	Identification of serum biomarkers for occupational medicamentosa-like dermatitis induced by trichloroethylene using mass spectrometry
		Lei Guo	National Center for Toxicol	USA	Application of microarray in studying herbal dietary supplements associated toxicity and underlying mechanism
		Changxun Fang	Fujian Agriculture and Fores	China	Changes in rice allelopathy and rhizosphere microflora by inhibiting rice phenylalanine ammonia-lyase gene expression
5	OMICS data, bioinformatics, and mathematic modeling	Ying Ding	Indiana University	USA	Semantic link predication for drug discovery
		Jake Chen	Indiana University – Purdue	USA	Genome-scale meta-analysis of Type-2 Diabetes genetic risk markers
		Xuegong Zhang	Tsinghua University	China	Alignment-Free comparison of Metagenomic samples with supervised and unsupervised machine learning approaches
		Miao He	Sun Yat-Sen University	China	Microarray analysis of non-small cell lung cancer in case of smoking
		Ping Wan	Capital Normal University		Computational Analysis of Drought Stress-Associated miRNA Regulatory Network in P. patens
		Jun Yang	Hangzhou Normal University	China	The application of omics techniques in the study of DNA damage response

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EOMICS

No.	Session Title	Speaker Name	Organization	Country	Presentation Title
6	OMICS in nanotoxicology	Hitoshi Iwahashi	Gifu University	Japan	Essential protocols for starting in vitro evaluation of nanoparticle
		Katsuhide Fujita	National Institute of Advan	Japan	Effects of single-wall carbon nanotubes on gene expressions in rat alveolar macrophages
		Makiko Fukuda	Technology Research Associ	Japan	Effects of residual metals involved in single-wall carbon nanotubes on oxidative stress response in human type II alveolar epithelial cell
		Xifei Yang	Shenzhen Center for Disease	China	Neurotoxicity of Silica Nanoparticles: Brain Localization, Alzheimer's Disease-like Pathology and Spatial Memory Impairment
		Hyun-Jeong	University of Seoul	Korea	Role of miRNA profiling on silver nanoparticles-induced DNA damage in Jurkat T cells
7	EOMICS workshop and roundtable discussions				
8	Systems Ecotoxicology	Jae-Seong Lee	Hanyang University, Departi	Korea	P-glycoprotein-mediated heavy metal tolerance in the Cd, Cu, and Zn-exposed intertidal copepod, Tigriopus japonicus
		Dawoon Jung	Geisel School of Medicine at	USA	Aquaporin 3 variant expression in killifish (Fundulus heteroclitus): tissue-specificity and implications in arsenic uptake
		Carlos P. Roca	Universitat Rovira i Virgili	Spain	MWCNT Toxicity Pathway Analysis In C.elegans
		Jinhee Choi	University of Seoul, School (	Korea	Use of toxicogenomics and functional genomics tools to develop adverse outcome pathways (AOPs) in the nematode, Caenorhabidits
		Senjie Lin	University of Connecticut	USA	Symbiodinium 'omics': toward the understanding of coral bleaching
		Chang Guo	Sun Yat-sen University	China	Metabolic physiology of Zebrafish (Danio rerio) phenotypic heterogeneity response to Vibrio parahaemolyticus infection
9	High-throughput next generation sequencing methods and applications	Charles Wang	City of Hope National Medic	USA	Landscape of rat transcriptomic BodyMap throughout life cycle
		Leming Shi	Fudan University	China	The SEQC project: power and limitations of RNA-Seq
		Yutaka Suzuki	University of Tokyo	Japan	Database of Transcriptional Start Sites and Epigenetic Markers for Analyzing Transcriptional Consequences of SNVs
		Baitang Ning	University of Arkansas	USA	Assessing Functional Genetic Variants by Different Approaches
		Cesare Furlanello	FBK-Fondazione Bruno Kessl	Italy	Differential Networks on RNA-Seq for toxicogenomics
10	Environmental exposure and toxicity, an integrated OMICS approach	Junko Takahashi	AIST	Japan	Integration among in vitro and in vivo for the evaluation of radiation effect using genomics
		Jiayin Dai	Chinese Academy of Science	China	Circulating MicroRNA Profiles Altered in mice after 28 Days Exposed to Perfluorooctanoic Acid
		Katsuya Tsuchihara	National Cancer center	Japan	Exploration and clinical application of cancer genome biomarkers at NCC Japan
		Yang Luan	Shanghai Institute of Materi	China	Absence of mature miRNAs inactivates the response of gene expression to carcinogenesis induced by N-ethyl-N-nitrosourea in
		Da-Zhi Wang	Xiamen University	China	Marine metaproteomics: current status and future directions
		Manjun Yang	Tibert Vocational Technical	China	Quantitative/qualitative metabolic regulation for double increasing balofloxacin concentrations in Vibrio alginolyticus
11	Human Microbiome and microbial OMICS	Wenxiong Lin	Fujian Agriculture and Fores	China	Enviromics analysis of biological process in rice rhizosphere mediated by nitrogen fertilizer
		Xuanxian Peng	Sun Yat-sen University	China	Proteomics approach for understanding of antibiotic resistance
		Joonhong Park	Yonsei University	Korea	An association between Helicobacter and human gastric microbiome diversity in gastric cancer patients in Korea
		Xianliang Zhao	Sun Yat-sen University	China	Metabolic regulation of antibiotic resistance in Escherichia coli based on metabolomic analysis
		Linkun Wu	Fujian Agricultural and Fore	China	The effects of Rehmannia glutinosa consecutive monoculture on microecology in rhizosphere by metagenomics and metaproteomics
		Caixia Li	National University of Singapore (NUS)	Singapore	Proteomic Profiling of Acute Arsenic Toxicity to Adult Zebrafish liver