



10th

INTERNATIONAL CONGRESS OF THE
TURKISH SOCIETY OF TOXICOLOGY

October 16-19, 2019

Lykia World Hotel

Belek, Antalya - TURKEY

SCIENTIFIC PROGRAMME

1st Day – 16th October 2019 (Wednesday)

Hours	Event / Venues	
08:30-12:00	Registration	
12:00-14:00	Lunch	
Room	Hall A	Hall B
14:00-16:30	CEC-1 Use of Biomarkers in Human Biomonitoring	CEC-2 Recent Developments and the Use of Non-Invasive Samples in Comet Assay
14:00-14:30	Biomarkers of Exposure and Early Biological Effects Stefano BONASSI (Italy)	The Use of the Best Biomarker from the Best (Non-Invasive) Tissue Sabine LANGIE (Belgium)
14:30-15:00	Study Design in Molecular Epidemiology Stefano BONASSI (Italy)	The Use of Different Blood Cell Preparations in the Comet Assay Andrew COLLINS (Norway)
15:00-15:30	Statistical Analysis of Human Studies with Biomarkers Stefano BONASSI (Italy)	The Use of Buccal Cells in Human Biomonitoring and Early Disease Mirta MILIĆ (Croatia)
15:30-16:00	Designing a Biomonitoring Study: Practical Exercise Stefano BONASSI (Italy)	Confounding Factors Affecting Comet Assay Results in Human Biomonitoring Studies Peter MOLLER (Denmark)
16:00-16:30	DNA Damage-Based Biomarkers in Cancer Measured by Mass Spectrometry Erdem COŞKUN (USA)	In utero exposure: using umbilical cord blood and placental tissue to assess DNA damage (NEOGENE project) Carla Tridade COSTA (Portugal)
16:30-17:00	Coffee Break	
Room	Hall A	
17:00-17:15	Opening Ceremony	
	Opening Lecture, Hall A	
17:15-17:45	Toxicology from the Perspectives of a Journal Editor Hermann BOLT (Germany)	
17:45-19:00	Welcome Reception	
19:30-21:30	Dinner	

2nd Day – 17th October 2019 (Thursday)

Plenary Lecture, Hall A		
Chair	Ali Esat KARAKAYA (Turkey)	
09:00-09:30	State of Science of the Risk Assessment of Nanomaterials Mary GULUMIAN (South Africa)	
09:30-10:00	Coffee Break	
Session I - Recent Data on Carcinogenicity Studies		
Room	Hall A	
Chairs	Miral DİZDAROĞLU (USA) – Asuman KARAKAYA (Turkey)	
10:00-10:30	Carcinogenicity Studies-Overview of Guidelines, Hanan GHANTOUS (USA)	
10:30-11:00	Carcinogenicity Studies and Status of ICHS1 and Implications, Owen Mc MASTER (USA)	
11:00-11:30	Carcinogenicity of Immune Modulators, Kenneth HASTINGS (USA)	
11:30-12:00	Biomarkers of Cancer Risk, Stefano BONASSI (Italy)	
12:00-12:30	DNA Repair in Cancer Therapy, Miral DİZDAROĞLU (USA)	
12:30-13:30	Lunch	
Plenary Lecture, Hall A		
Chair	Benay Can EKE (Turkey)	
13:30-14:00	Late Effects of Chronic Pesticide Exposure in Humans Mohammad ABDOLLAHI (Iran)	
	Session II Applicability and Limitation of Non-Animal Testing in Safety Assessment	Session III Use of Comet Assay in Biomonitoring of DNA Damage in Different Settings
Room	Hall A	Hall B
Chairs	Emanuela TESTAI (Italy) – Ahmet AYDIN (Turkey)	Stefano BONASSI (Italy) – Nurşen BAŞARAN (Turkey)
14:00-14:30	Regulatory Use of Non Animal Models: Limitations and Pitfalls Emanuela TESTAI (Italy)	Genomic Damage in Obesity and after Weight Loss Helga STOPPER (Germany)
14:30-15:00	History of a Success: Contact Hypersensitivity Emanuela CORSINI (Italy)	Plant Comet Assay in Environmental Studies Bertrand POURRUT (France)
15:00-15:30	The Use of Organ-on-a-chip Technologies in Toxicological Research Sebastian TRIETSCH (The Netherlands)	The Importance of Individual Susceptibility on the Levels of DNA Damage: the Case of Styrene-Exposed Workers Joao Paulo TEXEIRA (Portugal)
15:30-16:00	Applicability of Toxicological Data in Health Based Exposure Limits Semra ŞARDAŞ (Turkey)	The Comet Assay Testing Nanomaterials in Advanced In Vitro Models Maria DUSINSKA (Slovakia)

16:00-16:15	Defining Experimental Conditions for Using GH2AX Assay in Biomonitoring Studies Vanessa Valdiglesias (Spain)	16:00-16:10	The Effects of Storage Conditions in Comet Assay in Human Blood and Lymphocytes Merve BACANLI (Turkey)
16:15-16:30	Reconstructed Human Small Intestine Tissue Model for Drug Toxicity and Permeability Screening in Vitro Jan Markus (Slovakia)	16:10-16:20	Genotoxicity and Oxidative Lipid Damage Under Occupational Pesticide Exposure Elisa BOUTET-ROBINET (France)
		16:20-16:30	The Genotoxic Potential of Water Samples from the Rivers Drenica and Sitnica (Kosovo) in Primary Rat Hepatocytes as Assessed by the Comet and the Micronucleus Assay Avdulla ALIJA (Kosovo)
16:30-17:00	Coffee Break		

Exhibitor-Hosted Workshop

Room	Hall - D
17:00-19:00	From Automatic Image Capture to Publication-Ready Data. Augmented Microscopy TM with BioTek Imaging Systems. Hüseyin TUNCAY, ANT TEKNİK-BIOTEK

Short Presentations

	Short Presentations - I Biomonitoring Studies in Different Settings	Short Presentations - II Safety of Metals / Metal Containing Nanoparticles	Short Presentations - III Clinical Toxicology
Room	Hall A	Hall B	Hall C
Chairs	Aylin ÜSTÜNDAĞ (Turkey) Muhammed HAMİTOĞLU (Turkey)	Bülent ERGUN (Turkey) Ayşe EKEN (Turkey)	Dilek BATTAL (Turkey) Emre DURMAZ (Turkey)
17:00-17:15	Induction of Chromosomal Damage in Exfoliated Buccal Cells and Nasal Cells of Road Stripe Painters Georg Wultsch (Austria)	Evaluation of Biosafety of Nanoparticles, TiO ₂ and Fe ₃ O ₄ , Commonly Used in Nanomedicine Yüksel Çetin (Turkey)	Chlorine Gas Inhalation: A Case Report Eren Gökdağ (Turkey)
17:15-17:30	The Impact of Boat Pressure-Washing: Toxicology and Solutions Marco Gerić (Croatia)	Silver but not Gold Nanoparticles Attenuate Tumor Growth and Metastasis in BALB/c Mice Marcin Kruszewski (Poland)	Carbamazepine Intoxication: A Case Report Yücel Yüzbaşıoğlu (Turkey)

17:30-17:40	Evaluation of the Cyto/Genotoxic Effects of Marine Toxin Domoic Acid in Non- Target Human Cells in Vitro Goran Gajski (Croatia)	InVitroGenotoxicityAssessmentof Silver Sulfide Quantum Dots Coated with Meso-2,3-Dimercaptosuccinic Acid by Micronucleus Assay Gökçe Taner (Turkey)	Alba strawberry extract attenuates endogenous oxidative stress in Alzheimer's patients Biljana Spremo-Potparevica (Serbia)
17:40-17:50	Differences Between Biochemical and DNA Damage Parameters (Comet Assay and Micronucleus assay) Before and After Three Weeks of Interventional Hypocaloric Diet in Obese Patients Monitored in the Special Hospital for Extended Treatment of Duga Resa, Croatia – Preliminary Results Mirta Milić (Croatia)	Effects of Apoptosis-Inducing 2-Mercaptopropionic Acid (2-MPA)- Coated Silver Sulfide QD on Human A549 Cells Deniz Özkan Vardar (Turkey)	Evaluation of Therapeutical Potential of Novel Indole Derivatives in Estrogen- Induced Breast Carcinogenesis Elif İnce (Turkey)
17:50-18:00	Differential Expression of Peroxisome Proliferator- Activated Receptors inHepaticandTesticularTissuesin BisphenolA ExposedMice Sheikh Raisuddin (India)	Evaluation of Cytotoxic Effect Mechanisms of ZnO and CuO Nanoparticles Individually or as a MixtureinMouseFibroblastCellsand Protective Effects of DTPA, NAC or Taurine Duygu Paslı (Turkey)	Analysis and Correlation of Addictive Substances at Postmortem Nasal Swabs and Hair Samples Erkin Kırkpınar (Turkey)
18:00-18:10	Amelioration of Incision Wound Healing by Scorzonera Veratrifolia Extract in Rats: Evaluation of Oxidative Stress and Genotoxic Effect Ayfer Beceren (Turkey)	Bifenthrin-induced Neurological Alterations andAnxiety-likeBehavior in Adult Rats Hamadi FETOUI (Tunisia)	Cardiotoxicity Induced by Tyrosine Kinase Inhibitors Ayşenur Günaydın (Turkey)
18:10-18:20	InvestigationofGenotoxicPotentialof Diflucortolone andDerivativesinSilico forRisk Assessment Gülçin Tuğcu (Turkey)	Activity of Hawthorn on Reproductive Markers of Wistar Rat under Copper Intoxication Cherif Abdennour (Algeria)	Assessment of Heavy Metals in Medicinal Plants Hakan Özden (Turkey)
18:20-18:30	Promoter Genome-Wide Analysis of Histone Modifications and Drugs TargetingEpigenetic Alterationsin BreastCancer Seher Karsli-Ceppioglu (Turkey)	Determination of Blood Heavy Metal Levels in the Residents of Gemikonağı and Tepebaşı and Evaluation of Associated Genotoxic Effects Kumsal Kocadal (TRNC)	Manganese intoxication due to torpedo explosion Sultan Pınar Çetintepe (Turkey)
18:30-18:40	The Heavy Metal, Solvent And Polyaromatic HydrocarbonPatternin CeramicWorkers Meşide Gündüzöz (Turkey)	Evaluation of Heavy Metal Concentrations inSedimentsand VegetablesObtainedfrom Gemikonağı andYenierenköy in Northern Cyprus Fehmi Burak Alkaş (TRNC)	Organic UV Filters in Cosmetics and Breast Milk Selma YAZAR (Turkey)
18:40-19:10	Poster Viewing		

3rd Day – 18th October 2019 (Friday)

	Plenary Lecture, Hall A	
Chair	Bensu KARAHALİL (Turkey)	
09:00-09:30	Human Health Protection Through Chemical Stewardship - An Industry Perspective Salmaan H. INAYAT-HUSSAIN (Malaysia)	
09:30-10:00	Coffee Break	
	Session IV Food Safety	Session V Organ Specific Toxic Reactions and Related Adverse Outcome Pathways
Room	Hall A	Hall B
Chairs	Tanja SCHWERTLE (Germany) Onur ERDEM (Turkey)	Hilmi ORHAN (Turkey) Gül ÖZHAN (Turkey)
10:00-10:30	The Importance of Risk Communication in Food Safety Martin WILKS (Switzerland)	Contribution of Mitochondria to Clozapine-Induced Cardiotoxicity and Paracetamol-Induced Hepatotoxicity Hilmi ORHAN (Turkey)
10:30-11:00	Procedures of Risk Assessment in Food Safety in Turkey Serap HANCI (Turkey)	Adverse Outcome Pathways Associated with Mitochondria Mathieu VINKEN (Belgium)
11:00-11:30	The Reproductive Toxicity of Mycotoxins Hassan MALEKINEJAD (Iran)	Adverse Drug Reactions: Molecular Mechanisms and Inter- Individual Differences Nico P.E. VERMEULEN (The Netherlands)
11:30-12:00	PFOS and PFOA in Food: Main Conclusions of the EFSA 2018 Risk Assessment Tanja SCHWERTLE (Germany)	Influence of Epigenetic Mechanisms in Kidney Toxicity: Ochratoxin A and Fumonisin Sibel ÖZDEN (Turkey)
12:00-12:30	Nutraceuticals: Aspects of Efficacy and Toxicity in the Genomic Era Marco RACCHI (Italy)	The Search for an Optimal Human Liver Line for the Detection of Mutagens Siegfried KNASMUELLER (Austria)
12:30-14:00	Lunch	
	Session VI Emerging Environmental Issues	Session VII Endocrine Disrupting Effects of Chemicals and Pharmaceuticals- Their Role in Diseases
Room	Hall A	Hall B
Chairs	Emanuela CORSINI (Italy) Aylin GÜRBAY (Turkey)	Hande GURER-ORHAN (Turkey) Türkan YURDUN (Turkey)
14:00-14:30	Immunotoxicity of PFAS as Drinking Water, Food and Occupational Contaminants Emanuela CORSINI (Italy)	Nonclinical Evaluation of Endocrine-Related Drug Toxicity: Experiences with Novel Drug Candidates and Herbal Dietary Supplements Hande GURER-ORHAN (Turkey)
14:30-15:00	Human Health Effects of Cyanotoxins Emanuela TESTAI (Italy)	FDA CLARITY-BPA (The Consortium Linking Academic and Regulatory Insights on Bisphenol A Toxicity) Study: Safety Assessments and Non-Monotonic Dose Response Neslihan AYGUN-KOCABAS (Belgium)

15:00-15:30	Biomonitoring of the General Population Living Near the Waste-to-Energy Incinerator of Turin, Italy: Serum Concentrations of Organic Pollutants of Major Concern after Some Years from the Plant Start-up Anna Laura Iamiceli (Italy)	Towards a Harmonized Integrated Assessment of Metabolism Disrupting Compounds (The GOLIATH Project) Jorke KAMSTRA (The Netherlands)	
15:30-16:00	Microplastics: Are They Really a Threat? Emanuela TESTAI (Italy), Jennifer DE FRANCE (WHO)	Role of Endocrine Disruptors in Various Pathological Conditions: A Special Focus on Phthalates, Bisphenols and Polychlorinated Biphenyls Pinar ERKEKOGLU (Turkey)	
16:00-16:10	Studies of Chemical Mixtures from Real Exposure to in Vitro Carina LADEIRA (Portugal)	16:00-16:30	Adverse Effects of Psychoactive Drug on Sperm Parameters: The Role of the Hypothalamic-Pituitary-Gonadal Axis Sinem ILGIN (Turkey)
16:10-16:20	Simultaneous Determination of 24-Elements in Some Herbal Teas Consumed in Turkey: A Brief Toxicological and Chemometric View İ. İpek BOŞGELMEZ (Turkey)		
16:20-16:30	Analysis of Deoxynivalenol (Vomitoxin) in Cereal Based Baby Foods by HPLC Mücteba EŞREF TATLIPINAR (Turkey)		
16:30-17:00	Coffee Break		

Exhibitor-Hosted Workshop

Room	Hall - D
17:00-19:00	In Vitro Reconstructed 3D Models for the Safety Assessment of Chemicals, Cosmetics, Drugs and Medical Devices MatTek

Short Presentations

	Short Presentations IV Cytotoxic and Genotoxic Effects of Chemicals	Short Presentations V Recent Toxicological Studies in Turkey
Room	Hall A	Hall B
Chairs	Ela KADIOĞLU (Turkey) Gözde GİRGIN (Turkey)	Hande ŞİPAHİ (Turkey) Eren ÖZÇAĞLI (Turkey)
17:00-17:10	In Vitro Evaluation of Toxin Binding Efficacy for Aflatoxin B ₁ , Ochratoxin A, Citrinin, Zearalenone, T ₂ Toxin, Penicillic Acid and Fumonisin in Broiler Feed Sarathchandra Ghadevaru (India)	Epigenetic modifications caused by Fusarium mycotoxin, zearalenone Ecem Fatma Karaman (Turkey)
17:10-17:20	Effects of the 1,4-Dihydropyridine Salts Assessed In Vitro and In Vivo Nikolajs Sjakste (Latvia)	The Toxic Effects of Acetaminophen on Reproductive System: Subchronic Study on Male Rats Yağmur Emre Arıcan (Turkey)
17:20-17:30	Evaluation of Genotoxic Effects of Spherical and Rod-Shaped Nano-Hydroxyapatites in Drosophila Melanogaster Merve Güneş (Turkey)	How Safe are the ADI Values for Food Additives? (A Novel Zebrafish Modelling for Evaluating the Toxicity of Food Additives) Saltuk Buğrahan Ceyhan (Turkey)

17:30-17:40	Evaluation of The Cytotoxic and Genotoxic Effects of Pitavastatin in Cervical Cancer Cell Line Aysun Ökçesiz (Turkey)	Acetamidrid Induced Oxidative Damage and Apoptosis in SH-SY5Y Cell Line Ezgi Öztaş (Turkey)
17:40-17:50	Evaluation of Cytotoxic, Genotoxic and Apoptotic Effects of Flurbiprofen in Human Liver Cancer Cell Line Elçin Bakır (Turkey)	Lead Content of Lipsticks in Turkish Cosmetic Market and Assessment of Their Health Risks Onur Kenan Ulutaş (Turkey)
17:50-18:00	Possible Cytotoxic Effects and Molecular Mechanisms of Tamoxifen and Quinazoline Derivatives Doxazosin, Erlotinib on Endometrial Cancer Cells Ayşe Eken (Turkey)	Evaluation of Neuroendocrine Disrupting Effects of Prenatal Exposure to Bisphenol A and/or Di(2-ethylhexyl) Phthalate Anıl Yirun (Turkey)
18:00-18:10	Usefulness of RTL-W1 Cell Lines as an Alternative to Animal Testing in the Monitoring the Toxic Substances in Aquatic Environments Ozge Cemiloglu Ulker (Turkey)	Evaluation of Toxic Effects of Dibutyl Phthalate on A549 Cells and Possible Protective Effects of Ascorbic Acid and N-Acetylcysteine Aylin Balcı (Turkey)
18:10-18:20	In Vitro Investigation of Cytotoxic Effects and DNA Damage of Bisphenol Analogs Compared to Bisphenol A İrem İyigünoğdu (Turkey)	In Vitro Evaluation of Blood-Brain Barrier Penetration by PLGA and PEG-b-PLGA Nanoparticles Loaded with Obidoxime Sermet Sezigen (Turkey)
18:20-18:30	Helicobacter Pylori Infection Causes Both DNA Single and Double Strand Breaks and Oxidative Stress in Human Adenocarcinoma Cell Line Didem Oral (Turkey)	Tetrahydrobiopterin Dependent Nitric Oxide and Neopterin Levels in Guanosine Triphosphate Pathway in Gestational Diabetes Mellitus Songül Ünüvar (Turkey)
18:30-18:40	The anticancer activity of cinnamaldehyde toward U87MG cells and its synergistic effect on doxorubicin's anticancer activity Leila Hosseinzadeh (Iran)	Modeling of de- and Remyelination in 3D Brain Spheres Sevcan Gül Akgün-Ölmez (Turkey)
18:40-18:50	In Vitro Safety Assessment of Four Different Ganoderma lucidum Products Purchased Online Tuğçe Yeşil Devecioğlu (Turkey)	Computational Toxicology: From Bench-Based Toxicology to Computational-Based Risk Assessment Esra Emerce (Turkey)
18:50-19:00	In Vitro Toxicity and In Vivo Bioaccumulation Potency of Lys-graft-p(HEMA) Polymeric Nanoparticles N. Ulku Karabay Yavasoglu (Turkey)	The Role of Insulin on CYP1A1 and CYP2E1 Activities and Lipid Peroxidation Levels in Streptozotocin-Induced Diabetic Rats in Liver Gökçe Kuzgun (Turkey)
19:00-19:10		In Vitro Apoptotic and Oxidative Stress Evaluation of Benomyl in SH-SY5Y Cell Line Mehtap Kara (Turkey)
20:00-24:00	Gala Dinner	

4th Day – 19th October 2019 (Saturday)

	Plenary Lecture, Hall A	
Chair	Semra ŞARDAŞ (Turkey)	
09:00-09:30	Future Perspectives of Non-Animal Models Thomas HARTUNG (USA)	
09:00-09:30	Coffee Break	
	Session VIII Occurrence, Use and Potential Toxic Effects of Metals	Session IX Lipidomics
Room	Hall A	Hall B
Chairs	Andrea HARTWIG (Germany) Yalçın DUYDU (Turkey)	Ülkü ÜNDEĞER BUCARGAT (Turkey) Özlem ATLI EKLİOĞLU (Turkey)
10:00-10:30	Toxicity of Arsenic Species: Lessons from Cells, Flies, Worms, Mice and Humans Tanja SCHWERTLE (Germany)	Impact of Oxysterols on the Peroxisome: Physiopathological Consequences Gerard LIZARD (France)
10:30-11:00	Reproductive and Developmental Effects of Boron in Humans Under Occupational and/or Environmental Exposure Conditions Yalçın DUYDU (Turkey)	Cholesterol and Related Sterol Autoxidation Luigi LULIANO (Italy)
11:00-11:30	Cadmium Impact on Increased Risk of Osteoporosis Vesna MATOVIĆ (Serbia)	Use of Tandem Mass Spectrometry in Polyunsaturated Fatty Acid and Sphingolipid Measurements Mutay ASLAN (Turkey)
11:30-12:00	Toxicological Properties of Metal-Based Nanoparticles: What Makes the Difference? Andrea HARTWIG (Germany)	Lipidomic Research in Toxicology Suna SABUNCUOĞLU (Turkey)
Room	Hall A	
12:00-12:30	Closing Ceremony	