

EUROTOX 2009



Detailed Programme EUROTOX 2009

July 14, 2009

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Programme at a Glance EUROTOX 2009

July, 2009

Sunday, September 13, 2009						
Congress Registration						
Continuing Education Courses (CECs)						
08:00 – 18:00	CEC 1	CEC 2	CEC 3	CEC 4	CEC 5	CEC 6
Including coffee breaks & lunch break	Scientific and Regulatory Approaches for the Preclinical Safety Evaluation of Biologics	Risk Assessment under REACH - How To deal with the read across approach BMU	The use of QSAR in the screening of carcinogens	Safety Pharmacology in the Pharmaceutical Industry	The TTC concept: Past, present and future developments ILB Europe	Characterizing and communicating human exposure for chemical risk assessment WHO/International Programme on Chemical Safety
16:00	Opening of the Exhibition					CEC 7
18:00 – 19:30	Opening Ceremony Welcome addresses Keynote Lecture EUROTOX Merit Award					Evaluating The Human Relevance of Modes of Action in Animals International Life Sciences Institute (ILSI) & WHO/International Programme on Chemical Safety
19:30 – 22:00	Welcome Reception (in the ICCD)					

EUROTOX 2009

46th Congress of the
EUROPEAN SOCIETIES OF TOXICOLOGY
September 13-16, 2009 in Dresden



www.eurotox2009.org

Monday, September 14, 2009		July, 2009	
09:00 – 18:00	Exhibition time		
08:15 – 09:45		Oral Session 1 Furan Toxicity and Toxicity of Food Contaminants (6 presentations)	
09:00 – 09:45	Keynote "Identification of Genes Involved in Phenobarbital-Induced Tumorigenesis: Emphasis on Altered DNA Methylation and expression"		
09:45 – 10:15	Coffee break		
10:15 – 12:45	Symposium 1 The Epigenome – Role in Carcinogenesis	Workshop 2 Mechanisms of toxicity in risk assessment	Oral Session 2 Toxicity of PCB and other polychlorinated materials (10 presentations)
	Symposium 2 ATP transporters in mechanistic toxicology	Workshop 9 Assessment of the action of chemical mixtures and impact on the concept of toxicological threshold of concern (TTC)	
12:45 – 14:30	Lunch break		
	Poster viewing		
13:30-14:15	HESI lecture "Molecular aspects of Adverse Drug Reactions - from Molecule to Man"		
14:30 – 17:00	Symposium 3 Molecular mechanisms of toxicity for bacterial toxins	Workshop 3 Consumer chemicals and Food contaminants: Are they a risk to public health?	Oral Session 3 European Toxicology Initiatives (8 presentations)
		Workshop 4 Immune function testing: Pro's and con's of the KIH-assay as an alternative for the PFC-assay	
		Workshop 5 Lung injury, inflammation and repair: Fundamental aspects of lung toxicity	
17:00 – 17:30	Coffee break		
17:30 – 19:00	Roundtable discussion The Innovative Medicines Initiative IMI - High hopes and first experiences		
		16:00 – 16:30 Coffee Break	Oral Session 4 Early Predictive Toxicology (8 presentations)



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Tuesday, September 15, 2009					
09:00 – 18:00	Exhibition time				
08:15 – 09:45	Oral Session 5 Regulatory Toxicology (6 presentations)				
09:00 – 09:45	Bo Holmstedt Memorial Lecture: Novel tools in predictive toxicity testing: Mathematical modelling of tissue damage and regeneration as well as control of cell states in vitro by manipulation of early signalling				
09:45 – 10:15	Coffee break				
10:15 – 12:45	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; width: 25%;">Symposium 4 DNA damage-induced signalling and cell death</td> <td style="background-color: #e91e63; color: white; width: 25%;">Symposium 5 Nitrate and Oxidative Stress in toxicology and disease</td> <td style="background-color: #e91e63; color: white; width: 25%;">Symposium 6 Best practice in biologically-based toxicokinetic modelling for risk assessment (WHO/IPC5)</td> <td style="background-color: #e91e63; color: white; width: 25%;">Workshop 6 Evidence-based Decisions and Toxicovigilance in Human Toxicology</td> </tr> </table>	Symposium 4 DNA damage-induced signalling and cell death	Symposium 5 Nitrate and Oxidative Stress in toxicology and disease	Symposium 6 Best practice in biologically-based toxicokinetic modelling for risk assessment (WHO/IPC5)	Workshop 6 Evidence-based Decisions and Toxicovigilance in Human Toxicology
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12:45 – 14:30	Lunch break				
	Poster viewing				
13:30-14:15	SOT / EUROTOX debate "Nanorisk: Much ADO about nothing?"				
14:30 – 17:00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; width: 25%;">Workshop 7 Safety and Usage of Herbal Medicines: Issues for Toxicology</td> <td style="background-color: #e91e63; color: white; width: 25%;">Workshop 8 Zebrafish as a toxicogenomic model of the effects of chemicals on the developing vertebrate embryo</td> <td style="background-color: #e91e63; color: white; width: 25%;">Symposium 7 Chemical sensitization: From immunobiology to quantitative risk assessment</td> <td style="background-color: #e91e63; color: white; width: 25%;">Symposium 8 Biomarkers of Exposure and Metabolism at low concentrations of Carcinogen</td> </tr> </table>	Workshop 7 Safety and Usage of Herbal Medicines: Issues for Toxicology	Workshop 8 Zebrafish as a toxicogenomic model of the effects of chemicals on the developing vertebrate embryo	Symposium 7 Chemical sensitization: From immunobiology to quantitative risk assessment	Symposium 8 Biomarkers of Exposure and Metabolism at low concentrations of Carcinogen
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17:00 – 17:30	Coffee break				
17:30 – 18:30	TRISK: European advanced risk assessors accredited training programme for highly qualified toxicology experts				
19:30	Gala Dinner (in the ICCD)				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e91e63; color: white; width: 50%;">Oral Session 7 Immunotoxicology (8 presentations)</td> <td style="background-color: #e91e63; color: white; width: 50%;">16:00 – 16:30 Coffee Break</td> </tr> <tr> <td colspan="2" style="background-color: #e91e63; color: white;">Oral Session 8 Environmental Toxicology (8 presentations)</td> </tr> </table>	Oral Session 7 Immunotoxicology (8 presentations)	16:00 – 16:30 Coffee Break	Oral Session 8 Environmental Toxicology (8 presentations)	
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July, 2009	
Wednesday, September 16, 2009	
Exhibition time	
09:00 – 14:00	<p>Symposium 9 Emerging Pesticide Issues Related to Human Health</p> <p>Symposium 10 Omics: Value and application for research and regulatory toxicologists</p> <p>Workshop 1 Are in vitro tests meeting the EU Commission's deadlines?</p> <p>Workshop 10 Photensitization – What makes the difference?</p> <p>Oral Session 9 In vitro Models for Evaluation of Target Organ Toxicity (9 presentations)</p>
08:30 – 10:30	
10:30 – 11:00	<p>Coffee break</p> <p>Workshop 11 Methods in in vitro embryotoxicity testing</p> <p>Symposium 11 Environmental Risk Assessment for Human Pharmaceuticals</p> <p>Workshop 12 AhR biology: what does it tell us about dioxin toxicity?</p> <p>Symposium 12 Lung immunotoxicity and Health Effects of Particulate Matter</p> <p>Oral Session 10 Animal free strategies in Skin Toxicology (8 presentations)</p>
11:00 – 13:00	
13:15 – 14:00	Closing Ceremony



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Poster sessions Monday, September 14, 2009 09:00 – 18:00	Conference level, Terrace level, Hall 5		July, 2009
	Tuesday, September 15, 2009		
Exhibition time			
1	M	Methods in Toxicology	
2	V	In Vitro Toxicology	
3	O	Omics Technology and Application	
4	N	Mechanisms of Toxicity	
5	D	Metabolism and Kinetics	
6	B	Oxidative Stress	
7	A	Effects on DNA and Carcinogenesis	
8	J	Reproduction Toxicology	
9	Y	Biomarker and Biomonitoring	
10	T	Target Organ Toxicity	
11	I	Inflammation and Cytokines	
12	L	Toxicology of Nanomaterials	
13	E	Environmental Toxicology	
14	Z	Pesticide Toxicology	
15	R	Toxicology of Metals	
16	F	Food Safety	
17	H	Risk Assessment	
18	G	Clinical toxicology	
19	P	Pharmaceutical and Industrial Safety	
20	X	Regulatory Toxicology	

Continuing Education Courses (CEC)

CEC 1:

Scientific and Regulatory Approaches for the Preclinical Safety Evaluation of Biologics

More than 250 approved medicinal biologic drugs are available today, and many more are in clinical development. The increase in the number of biological products in the past decade has highlighted the issue of the best-suited scientific and regulatory approaches for the preclinical safety evaluation of these type of products. This session will address the best-suited scientific approaches for the preclinical safety evaluation of biologic drugs in the current regulatory environment on the basis of examples from case studies. Emphasis will be placed on the importance of a clear understanding of the targeted clinical indication, route of administration, duration of treatment and mechanism of action together with consideration of potential target-related side-effects. In addition, this session will address the selection of preclinical animal species relevant for the prediction of human safety, and immunogenicity/immuno-toxicity potential with the aim of developing the best strategy for the overall preclinical safety package evaluation. The importance of the use of non-human primates in these investigations will also be analyzed.

Titles of presentations:

Prof. Dr. Claudio I. Bernardi, Italy

Scientific and Regulatory Approaches for the Preclinical Safety Evaluation of Biologics

Prof. Dr. Jacques Descotes, France

Preclinical Evaluation of the Immunological Safety of Biologics

Dr. Beatriz Silva Lima, Portugal

One European perspective on Nonclinical development of biologics

Dr. Gabriele Reichmann, Germany

Regulatory approach to first-in-man trials with monoclonal antibodies

Dr. Miro Venturi, Germany

Biomarkers-driven early efficacy assessment for Biological drugs in clinical Proof-of-Concept studies

CEC 2:

Risk assessment under REACH - How to deal with the Read Across Approach

Under REACH the so-called Read Across Approach has been proposed to be used with the aim of reducing animal testing. However, there is no textbook approach available to explain how to apply this approach. Scientist having wide experience with this approach will be invited to attend this educational course. They will present cases to illustrate the procedure, giving examples of success and limitations of the Approach.

Titles of presentations:

Dr. Bob Diderich, France

Chemical Categories: Filling data gaps by Read-Across and Trend analysis, The OECD Approach

Dr. Sylvie Tissot, France

Risk Assessment under REACH - Glycols ethers and read across Approach

Dr. Claudia Fruijtier-Pölloth, Germany

Alkyl Sulphates, Alkane Sulphonates and alpha-Olefin Sulphonates

Dr. Helene Stockmann-Juvala, Finland

Read-across approach in risk assessment: Ferrochromium as an example

Dr. Inge Mangelsdorf, Germany

How valid are "old" repeated dose toxicity studies for chemical risk assessment?

Dr. Christina Rudén, Sweden

Ten proposals to improve testing and risk assessment

Prof. Dr. Ursula Gundert-Remy, Germany

Qualitative versus quantitative assessment

CEC 3:

The use of QSAR in the screening of carcinogens

During the last 10 years, the biological, chemical, statistical and informational basis of methods to describe Quantitative Structure-Activity Relationships (QSAR) has been broadened considerably. Such methods are well-established in the search of active compounds, for instance pharmaceuticals or agricultural chemicals. Recently, the REACH legislation called for new strategies to gather toxicological information which results in new implications for adopting QSAR procedures. This workshop intends to summarize relevant scientific developments in this field in a transdisciplinary manner.

Titles of presentations::

Dr. Kimmo Louekari, Finland

Application of QSAR and in vitro testing within the framework of REACH

Dr. Romualdo Benigni, Italy

Structure-activity models for chemical carcinogens

Dr. Paola Gramatica, Italy

Prediction of PAH and Nitro-PAH mutagenicity and PAC genotoxicity by QSAR modeling

Dr. João Aires-de-Sousa, Portugal

Prediction of mutagenicity based on empirical physicochemical descriptors

CEC 4: Safety Pharmacology in the Pharmaceutical Industry

Safety Pharmacology is a significant and growing component of the development requirements for new medicines. It is of great interest to toxicologists and pharmacologists working both inside and outside the pharmaceutical industry. An understanding of the science, regulatory needs, safety and clinical benefits of this discipline is important for anyone developing the science or applying it to the discovery and development of new drugs. This course will provide a Safety Pharmacology overview concentrating on its importance and providing a clinical perspective. Appropriate definitions, the evolution, the regulatory requirements and the objectives will be discussed.

Building on this, the session will present the fundamentals of the core battery, follow-up & supplemental studies including cardiovascular including assessment of QT liability and pro-arrhythmic risk, respiratory function, nervous system including assessment of drug-dependency and abuse liability and assessment of gastrointestinal, renal and immune functions. This will be illustrated with case studies to highlight the impact of Safety Pharmacology data in terms of hazard identification, risk assessment and risk management. In addition, this course will consider emerging trends and future challenges for Safety Pharmacology. This will encompass new targets and approaches to treat diseases, new assays and technologies and new regulatory requirements. Other important aspects to be covered will be training & education and the translation of Safety Pharmacology data to humans.

Titles of presentations:

Dr. Jean-Pierre Valentin, UK
Introduction to Safety Pharmacology

Dr. Brian Guth, Germany
Cardiovascular Safety Pharmacology (including QT interval)

Dr. Gareth Waldron, UK
CNS Safety Pharmacology (including drug dependency)

Dr. Stéphane Milano, France
Respiratory/GI/Renal/Immune Safety Pharmacology

Dr. Jean-Pierre Valentin, UK
Emerging trends and approaches in Safety Pharmacology

Dr. Hugo M. Vargas, U.S.A.
Special Considerations in Safety Pharmacology: Biologicals

**CEC 5:
The TTC Concept: Past, present and future developments**

Sponsored by ILSI Europe

Draft Agenda, 9:30 - 16:00 h

Moderation: Prof. Dr. Corrado Galli, Italy



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9:30 – 10:20 **The scientific basis and application of the threshold of toxicological concern (TTC)** (Prof. em. Andrew Renwick, UK)

10:20 – 10:50 **Application of the TTC Concept on Food Packaging Materials** (Dr. Heli M. Hollnagel, Switzerland)

10:50 – 11:20 BREAK

11:20 – 11:50 **The Threshold of Toxicological Concern (TTC) and its application in the safety evaluation of Flavouring Substances** (Dr. Jürgen Schnabel, Switzerland)

11:50 – 12:20 **Evaluation of the TTC Concept with the Database RepDose** (Dr. Sylvia Escher, Germany)

12:20 – 12:30 Discussion

12:30 – 13:30 LUNCH

13:30 – 14:00 **Computer tools for Threshold of Toxicological Concern Elucidation** (Dr. Nina Jeliaskova, Bulgaria)

14:00 – 14:30 **Applying the TTC Concept to Skin Sensitisation and Inhalation Toxicity** (Dr. Robert Safford, UK)

14:30 – 15:00 BREAK

15:00 – 15:30 **Applicability Domain of TTC (Threshold of Toxicological Concern) Schemes – A Conceptual Approach** (Dr. Gerrit Schüürmann, Germany)

15:30 – 16:00 Final discussions

CEC 6:

Characterizing and Communicating Human exposure for chemical risk assessment

Sponsored by WHO/International Programme on Chemical Safety

The science of human exposure assessment for chemical risk assessment is developing with more complex approaches, including application of models. In some cases, these are employed by exposure assessment specialists, in some cases by risk assessors. Nevertheless, it is critical that exposure assessors effectively communicate exposure information to risk assessors, and that risk assessors have an understanding of the principles of exposure assessment in able to employ the information appropriately. This continuing education course will commence with a primer on human exposure assessment, focusing on current day best practice and use of measured exposure data. Principles of characterizing and applying human exposure models will be addressed, including expected documentation for models to enable a fit-for-purpose consideration. While toxicologists are now familiar with describing attendant uncertainties in their hazard assessments, it is also important to characterize and communicate uncertainties inherent in the exposure assessment. A tiered approach to exposure assessment and



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characterization of attendant uncertainties will be presented, reflecting current day needs to tailor resources/effort to the problem or question being addressed. This course will include interactive discussions at intervals during the presentations and demonstrations. This course is aimed at individuals with some knowledge of exposure assessment.

Titles of presentations:

09.00 Welcome and Introduction to the Course and the World Health Organization Globally Harmonized Risk Assessment Methodology

Ms. Carolyn Vickers, Switzerland

09.15 Primer on Human Exposure Assessment for Chemical Risk Assessment

Dr. Thomas E. McKone, United States

Discussion/coffee break

10.45 Understanding and Applying Human Exposure Models: WHO guidance with demonstration/case study of an exposure model

Dr. Gerhard Heinemeyer, Germany

Dr. Haluk Ozkaynak, United States

12.30 Lunch

13.30 Principles of uncertainty analysis in exposure assessment: Characterizing and communicating uncertainty: WHO guidance

Prof. Dr. H. Christopher Frey, United States

15.00 Quantitative uncertainty analysis: Model case study

Dr. Thomas E. McKone, United States

15.30 Review and wrap up

16.00 Close

CEC 7:

Evaluating The Human Relevance of Modes of Action in Animals

Sponsored by International Life Sciences Institute (ILSI) and WHO/International Programme on Chemical Safety (IPCS)

This course presents a systematic approach to characterizing the mode(s) of action (MOA) of toxicants and will give participants "hands-on" experience in the application of a framework for evaluating the relevance of an animal mode of action in assessing human risk. Additionally, the workshop will contribute to the understanding of the implications of MOA analysis for dose-response assessment. Frameworks for characterizing MOA data and analyzing its human relevance have been developed over the past decade for carcinogens, reproductive, developmental, and neurologic toxicants and more generally for any non-cancer endpoint. These analyses have been adopted in various national and international risk assessment guidelines. The evaluation of mode of action is becoming a routine and critical component of regulatory risk assessments, and an important consideration is always whether the MOA determined in animals can be

assumed to be directly applicable for humans. This workshop will demonstrate the use of an MOA human relevance framework, through a combination of plenary lectures and facilitated breakout groups utilizing case studies with group participation. Opening tutorial presentations will introduce workshop participants to basic concepts and walk them through a model case study. This leads into a facilitated interactive case study in which participants, working in small groups, analyze an example drawn from recent peer reviewed publications involving a "real world" chemical. In the case study, participants will systematically examine the sufficiency of evidence for establishing an MOA and its human relevance. The objective of the case study is to show clearly how the framework analysis is done, to illustrate the importance of a systematic evaluation of the available data, and to provide course participants with the tools and confidence to begin applying the MOA/human relevance framework in their own work. The workshop will conclude with a plenary lecture on the implications for dose-response analysis. The speaker/facilitators for this workshop - Dr. Alan Boobis and Ms. Bette Meek - have been leaders in the development of MOA human relevance analysis and have extensive experience in its practical use.

Draft Agenda

9:30 Welcome and Introductions (IPCS/ILSI)

9:40 Tutorial: Mode of Action in Animals and Humans Basic concepts, framework for assessing mode of action (MOA) in animals, key events, weight of evidence, human relevance framework, kinetic and dynamic factors

10:20 Model Case Study: Thyroid Disruption
Step-wise application of each element of the human relevance framework, cancer and non-cancer effects, use of data, concordance analysis, assumptions

11:00 Discussion

11:15 BREAK

11:30 Interactive Case Study
Facilitated exploration of a chemical, based on summaries of published data, in which participants will gain experience in the evaluation of the human relevance of animal modes of action, working in small breakout groups

Chemical C

Framework Question 1 – Is the weight of evidence sufficient to establish the MOA in animals?

Case study illustrating the process and the range of data available to support determination of MOA

12:30 LUNCH

1:30 Continuation of Consideration of Interactive Case Study

Chemical C (Cont'd)

Framework Question 2 – Can human relevance of the MOA be reasonably excluded on the basis of fundamental qualitative differences in key events between animals and humans?

Case study illustrating the evaluation of evidence for and against concordance of key

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events in animals and humans

Framework Question 3 – Can human relevance of the MOA be reasonably excluded on the basis of quantitative differences in either kinetic or dynamic factors between animals and humans?

Case study illustrating the evaluation of data on comparative kinetics and dynamics in animals and humans, given that key events are the same in both species

2:45 BREAK

3:00 Report out and discussion of applications in dose-response and risk assessment

3:45 Wrap-up

4:00 Adjournment



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Lectures and discussions

KEYNOTE LECTURES			
Keynote title	Lecturer	Date	Time
Keynote at Opening ceremony (tbd)	Prof. Dr. Alfred Wittinghofer, Germany	Sun, Sep 13	6:30 – 7:00 p.m.
Keynote: Identification of Genes Involved in Phenobarbital-Induced Tumorigenesis: Emphasis on Altered DNA Methylation and expression	Dr. Jay Goodman, USA	Mon, Sep 14	9:00 - 9:45 a.m.
Keynote, HESI Lecture: Molecular aspects of Adverse Drug Reactions - from Molecule to Man	Prof. Dr. Kevin Park, UK	Mon, Sep 14	12:45 – 14:30 p.m.
Keynote, Bo Holmstedt Memorial Lecture: Novel tools in predictive toxicity testing: Mathematical modelling of tissue damage and regeneration as well as control of cell states in vitro by manipulation of early signalling	Prof. Dr. Jan G. Hengstler, Germany	Tue, Sep 15	09:00 – 09:45 a.m.
Keynote SOT / EUROTOX debate "Nanorisk: Much ADO about nothing?"	Dr. Nigel Walker, USA & Prof. Dr. Kai Savolainen, Finland	Tue, Sep 15	12:45 – 14:30 p.m.
ROUNDTABLE			
Roundtable discussion: The Innovative Medicines Initiative IMI - High hopes and first experiences	Dr. Steger-Hartmann, Germany	Mon, Sep 14	17:30 – 19:00 p.m.
Other			
TRISK: European advanced risk assessors accredited training programme for highly qualified toxicology experts	Prof. Dr. Corrado Galli, Italy	Tue, Sep 15, 2009	17:30 – 18:30 p.m.

Symposia

Symposium 1: The Epigenome – role in Carcinogenesis

Epigenetic mechanisms confer heritable phenotypes in cells which cannot be explained by changes in the primary structure of DNA. Epigenomic alterations accumulate during aging and are now recognized as major mechanisms in the development and progression of cancer and other human diseases. The prevalence of epigenetic changes in cancers such as gene silencing by promoter DNA hypermethylation has led to the development of new therapeutic approaches in cancer therapy. In addition, there is evidence that environmental factors can influence the epigenome. This symposium addresses the rapidly growing epigenetic research field and summarizes state-of-the-art knowledge of its important implications in cancer research and toxicology.

Titles of presentations

Dr. Richard Meehan, UK

Living with and without the maintenance cytosine methyltransferase, Dnmt1

Dr. Manon van Engeland, The Netherlands

Colorectal cancer epigenetics: causes, consequences and clinical applications

Prof. Dr. Christoph Plass, Germany

Global promoter methylation in cancer

Dr. Colin Logie, The Netherlands

Histone acetylation and chemical carcinogenesis

Dr. Zdenko Herceg, France

Epigenetic changes in cancer as a signature of exposure to environmental and dietary factors

Symposium 2: ATP transporters in mechanistic toxicology

ATP-binding cassette genes (ABC) transport genes comprise a family of about 48 genes which are divided into 7 families (A to G) according to their function. They all share a common function of transport across membranes against concentration gradients utilising energy from ATP. The substrates transported range from ions, to large amphipathic molecules, for example chloride ions and vinblastine respectively. There are many disease phenotypes associated with polymorphisms including cystic fibrosis and liver disease. Many members of the family are important in toxicology for cellular protection against xenobiotics and for the transport of metabolites. Loss of function of the first described member of the family ABCB1 confers susceptibility to ivermectin and digoxin. This session will explore the roles of these transporters in toxicology. This session is supported by the CEFIC-LRI programme.

Titles of presentations

Dr. Timothy Gant, UK
Roles of the ABC transporter family in toxicology

Prof. Dr. Deanna Kroetz, USA
Involvement of ABC transporters on Pharmacokinetics and Toxicokinetics

Prof. Dr. Ronald Oude Elferink, The Netherlands
Regulation of the ABC transport genes

Prof. Dr. Heidrun Potschka, Germany
Role of ABC Transporters at the Blood-Brain Barrier

Dr. John D. Schuetz, USA
Role of ABC transporters in liver functions and disease

Symposium 3: Molecular mechanisms of toxicity for bacterial toxins

Bacterial protein toxins belong to the most important naturally produced toxic substances. They are "foes" and "friends" as poisons, biological weapons, cell biological tools and therapeutics, respectively. During recent years, the molecular mechanisms of many of these toxins have been elucidated exhibiting fascinating modes of action. This symposium will present examples of some of the most exciting stories from recent years illustrating the diverse issues posed by these toxins.

Titles of presentations

Prof. Dr. Ingo Just, Germany
Rho-inhibiting toxins

Prof. Dr. Holger Barth, Germany
Binary actin-ADP-ribosylating toxins: new insights into the interaction between bacterial toxins and host cell chaperones during internalization into mammalian cells

Prof. Dr. Dr. Klaus Aktories, Germany
Clostridial glucosylating toxins

Prof. Dr. Cesare Montecucco, Italy
The Botulinum Neurotoxins Between Toxicology and Pharmacology

Prof. Dr. Kirsten Sandvig, Norway
Entry of Shiga toxin into cells

Symposium 4: DNA damage-induced signaling and cell death

The symposium will highlight the topical issues in the field of DNA damage reversal, base excision repair BER, nucleotide excision repair NER, mismatch repair MMR and damage specific protein DSP repair. Currently, also damage-triggered signaling is one of the most exciting research areas. Aspects of DNA damage recognition, signaling pathways, cell cycle checkpoints and apoptosis will be addressed with a focus on signaling from DNA damage downstream to critical players in apoptosis, necrosis, mitotic catastrophe and autophagy. Currently, this area is one of the most exciting research areas in molecular toxicology.

Titles of presentations

Prof. Dr. Bernd Kaina, Germany

Inteplay of DNA repair and damage signaling in genotoxin-induced apoptosis and necrosis

Prof. Dr. Jiri Bartek, Denmark

DNA damage response: Mechanisms and role in human cancer

Prof. Dr. Boris Zhivotovsky, Sweden

DNA damage-induced mitotic catastrophe, necrosis and apoptosis

Prof. Dr. Hans-Peter Rodemann, Germany

Interplay of EGF receptor and DNA damage pathways

Prof. Dr. Carlos F.M. Menck, Brasil

Ultraviolet light-induced DNA damage that triggers apoptosis pathways

Symposium 5: Nitrativ and Oxidative Stress in toxicology and disease

Persistent inflammation and the formation of reactive oxygen species play a pivotal role in tissue injury both during disease pathogenesis and as a reaction to toxicant exposure. The associated oxidative and nitrativ stress promotes diverse biological reactions from neurodegenerative/ neuropsychiatric and cardiovascular disorders to carcinogenesis. These occur via sustained cell proliferation, cell death, initiation of nuclear and mitochondrial DNA mutations and in some cases via induction of a proangiogenic environment.

This symposium brings together experts in the field in order to discuss the pivotal role played by oxidative and nitrativ stress in cell death, inflammation and pain, and its consequences for toxicology and disease pathogenesis.

Titles of presentations

Prof. Dr. Csaba Szabo, USA

Peroxynitrite: biochemistry, toxicology and development of therapeutics

Dr. Ronald B. Tjalkens, USA

Nitrativ stress and glial-neuronal interactions in the pathogenesis of Parkinson's disease

Prof. Dr. Robert Smith, UK

Oxidative and nitrosative stress-induced neurotoxicity in primary cultured rat cerebellar granule neurons

Prof. Dr. Ruth Roberts, UK

Oxidative and Nitritative Stress: Role in the response to liver toxicants

Prof. Dr. Fredika M. Robertson, USA

Oxidative and Nitritative stress in Multi-Stage Skin Carcinogenesis

Symposium 6 (For WHO/International Programme on Chemical Safety) Best practice in biologically-based toxicokinetic modelling for risk assessment

The increasing use of pharmacokinetic models in chemical risk assessments is recognised. It is necessary to develop a common understanding what constituents are to develop an internationally acceptable model and how to validate it. The common understanding would facilitate sharing models and model evaluations as well as consistent applications in risk assessments. Points to consider are:

- 1) Model development
- 2) Model characterization, i.e. methods to describe how consistent the model is with biology; strengths and limitations of available model and data, such as sensitivity analyses
- 3) Model documentation
- 4) Model evaluation, i.e. independent review.

Titles of presentations

Dr. Bette Meek, Canada

Principles of characterizing and applying Physiologically-based PK models – An introduction

Prof. Dr. Ursula Gundert-Remy, Germany

Model development and characterization – The biological part

Prof. Dr. George Loizou, UK

The Rapid Generation of PBPK Models: A Tool for Good Modelling Practice

Dr. Harvey J. Clewell III, USA

Special aspects: Species differences, different life stages, exposure routes

Prof. Dr. Olavi Pelkonen, Finland

Special aspects: Local kinetics

Symposium 7: Chemical sensitization: From immunobiology to quantitative risk assessment

At present, risk assessment for potential skin or lung sensitizers is totally dependent on animal testing. The relevance of positive animal test results for human health hazard assessment as well as the potency of skin sensitization are key indicating a pressing

need for reliable methods for quantitative risk assessment. As a direct consequence, the additional testing for allergenicity required by the EU-legislation on chemicals (REACH) would require a large number of animals. Clearly this is inconsistent in the light of the European Directive 86/609/EEC aimed at a reduction in animal testing. Against this background, there is a need for alternative methods that will eliminate the need for animals in safety testing altogether. The purpose of this symposium is to provide a detailed examination of the ways in which dendritic cells (DC) participate in the development of chemical allergy, and how an understanding of their role provides opportunities to exploit DC biology for the purposes of developing alternative methods for hazard identification and risk characterization.

Titles of presentations

Dr. Rebecca Dearman, UK

Dendritic cell biology: Current state of the art

Prof. Dr. Marc Pallardy, France

Use of dendritic cells for the identification and characterization of chemical allergens

Dr. Sandra Verstraelen, Belgium

Cell-based in vitro alternatives to predict the contact and respiratory sensitizing potential of chemicals

Dr. Winfried Steiling, Germany

Potency of Skin Sensitisation - LLNA data used for a more reliable classification, labeling and risk assessment

Prof. Dr. Klaus E. Andersen, Denmark

Potency and trends of skin sensitization in humans with regard to consumer products

Symposium 8:

Biomarkers of Exposure and Metabolism at low concentrations of Carcinogen

The identification of new environmental carcinogens, characterized by weak effects and complex exposure circumstances, has become increasingly difficult with traditional epidemiological approaches. In parallel, increasing knowledge of the mechanisms of early steps in the carcinogenic process has led to the identification of relevant metabolites of other biologically active compounds. Thus, there is a need to validate exposure biomarkers before their application in population-based studies that arises from the variability in biomarker-based measurements of exposure. Biomonitoring of carcinogen exposure most often relies on determination of surrogate markers in easily accessible body fluids such as blood and urine. For risk assessment, it is of utmost importance to know the correlation of these markers to critical DNA adducts in target tissues. Considering that the in vivo concentration of environmental pollutants in humans is likely very low (pM to low nM) it is important to identify cytosolic and microsomal systems that are efficient catalysts of metabolism/bioactivation with realistic low K_m values. Such high affinity enzymes in target tissues such as the lung, may contribute to the susceptibility of these tissues to toxicity/ carcinogenicity of e.g. tobacco-specific nitrosamines, PAHs, aromatic amines, quinones.

Titles of presentations

Prof. Dr. Frederik-Jan van Schooten, The Netherlands

The application of DNA adduct measurements in population studies

Prof. Dr. Ramesh Gupta, USA

DNA adduct accumulation during the course of human cervical cancer development, and during and after radiotherapy

Prof. Dr. Elmar Richter, Germany

TSNA Adducts in smokers, nonsmokers and snuffers

Dr. Marie Stiborova, Czech Republic

Metabolic activation of nitroaromatics and arylamines

Prof. Dr. Edmund Maser, Germany

Competing roles of reductases in the detoxification of Carcinogens

Prof. Dr. Michael Arand, Switzerland

Epoxide hydrolases: Structure, functions, mechanisms and toxicological implications

Symposium 9:

Emerging pesticide issues related to human health (Sponsored by BO Holmstedt Foundation)

In the industrially developed countries, there are new pesticides that can substitute organophosphates and carbamates whereas in the developing world the organochlorinated compounds are still in use. The presence of these different pesticides in soil and groundwater is monitored globally as pollution of the environment, the crop and the human population. Studies related to the prevention of exposure of farmers and cultivation systems for the protection of the consumers offer practical approaches to this issue. Genetic predisposition to sensitivity to pesticide toxicity is also an emerging important issue. Recent investigations and group population studies relate pesticide professional exposure to a number of health problems and will be a crucial issue for future projects.

Titles of presentations

Prof. Dr. Aristide Tsatsakis, Greece

Biomonitoring of Pesticides in the Industrial World and in Developing Countries

Dr. Antonio F. Hernández Jerez, Spain

Genetic polymorphisms of pesticide-metabolizing enzymes as potential biomarkers of susceptibility to pesticide toxicity

Dr. David Ray, UK

The diversity of molecular targets of pesticides - new developments

Dr. Lewis L. Smith, UK

Pesticide exposure and risk to Parkinson`s disease

Dr. Karen I. Hirsch-Ernst, Germany

Current issues in pesticide exposure and health risk - Risk assessment of multiple residues and endocrine disrupting pesticides

Symposium 10:

Omics: Value and application for research and regulatory toxicologists

Molecular investigative toxicology is an approach that toxicological research has started to take more seriously in order to improve our overall understanding of toxicological mechanisms, as well as improving toxicity prediction models. By combining traditional toxicology approaches with the development, validation and implementation of new technologies such as toxicogenomics, proteomics and metabolomics, the field will move towards true systems toxicology. The workshop should cover all aspects of the field, from the technologies themselves through to the issues faced by the regulators who eventually have to deal with and make decisions based on these data. Interpretation and mechanistic insight from genomic and proteomic data is essential and one of the huge potential benefits of these modern technologies. InnoMed PredTox and IMI are important joint Industry and European Commission collaborations aiming at improving drug safety. The goal is to assess the value of combining results from omics technologies with the results from more conventional toxicology methods in order to make more informed decisions in preclinical safety evaluation. The results of this innovative project will be available in early 2009.

Titles of presentations

Mrs. Christina-S. Schmitt, Germany

Genomics and its surrounding technologies. Looking to the future of toxicogenomics

Dr. Andre Schrattenholz, Germany

Proteomic surrogate biomarkers for in vitro testing of embryotoxicity: Quantitative differential investigation of ESC models

Dr. Henicke Kamp, Germany

Metabolite Profiling – a new tool for the identification of toxicological effects of chemicals

Dr. Angela Mally, Germany

Cross-Omics comparison in toxicological research

Dr. Donna Mendrick, USA

Towards Improvements in Understanding Hepatotoxicity Using Omics

Dr. Joan Albert Vericat, Spain

The study of mechanisms of new drugs: Potential toxicity using genomic, proteomic and metabolomic tools

Symposium 11: Environmental Risk Assessment for Human Pharmaceuticals

The active ingredients in pharmaceuticals are among the most extensively studied substances in terms of their biological effects on mammals including humans. In contrast, far less attention has been devoted to the consequences of discharging pharmaceuticals into the environment. The early seventies saw the publication of the first ever study examining the discharge of active pharmaceutical ingredients into the environment. Due to their broad application profile, human medicines are released more or less continuously from multiple sources and enter the sewage system. Some will enter surface waters largely unhindered, because they are not sufficiently removed during their passage through the sewage treatment plant. Some of these active pharmaceutical ingredients have a harmful effect on environmental organisms and other consequences that should be given greater importance when weighing up the benefits/risks of using these active ingredients, or when devising measures to minimize their discharge into the environment. To address this issue from the regulatory perspective, an EMEA guideline on environmental risk assessment of human pharmaceuticals has been finalized in 2006 and first practical experiences are now available.

Titles of presentations

Dr. Thomas Ternes, Germany

Occurrence and fate of pharmaceuticals in the environment

Dr. Alistair B.A. Boxall, UK

Assessing environmental effects of human pharmaceuticals

Prof. Dr. Peter Calow, Denmark

Pharmaceuticals in the environment - issues in balancing human health benefits with ecological risks

Dr. Annette Küster, Germany

The CHMP guideline on ERA of medicinal products for human use: Three years of regulatory experience

Dr. Gisela Holm, Sweden

Experiences with the Swedish environmental classification system of pharmaceuticals on www.fass.se

Symposium 12: Lung immunotoxicity and health effects of particulate matter

Some chemicals in the workplace and in the environment can cause respiratory allergy. Particulate matter is recognized as a health problem. Indoor air generally has a higher particulate matter concentration but the health effects of this exposure have been given little attention. At present, the ability to predict whether a chemical is likely to cause respiratory allergy is limited. There is a need to develop assays for the identification of those chemicals. The significance of many immunotoxic findings in animal studies is not well understood in terms of mechanisms behind sensitization.

Understanding the relevance of these animal allergens for humans will require better predictive models and the use of immunotoxicological assays.

Titles of presentations

Dr. Armin Braun, Germany

Current concepts of allergic airway disease

Dr. M. Ian Gilmour, USA

The influence of air pollutants on allergic sensitization in the lung

Prof. Dr. Jeroen Buters, Germany

Toxic and inflammatory effects of particulate matter PM10 sampled during teaching hours in elementary school classrooms

Prof. Dr. Lidia Morawaska, Australia

Ambient air particulate matter: a cause of airway and systematic disease

Dr. Barbara Rothen-Rutishauser, Switzerland

An in vitro model of the human epithelial airway barrier to study the toxicity of nanoparticles

Workshops

Workshop 1:

Are in vitro tests meeting the EU Commission's deadlines?

Six years have passed since the Directive 2003/15/EC has been implemented. This makes 2009 an important year in the phasing-out of animal testing in the framework of the 7th amendment to the Cosmetic Directive, especially for acute toxicity, genotoxicity, toxicokinetics and metabolism. The development of reliable testing strategies for industrial chemicals as well as for cosmetic ingredients (Cosmetic Directive 7th amendment and drugs development) is not only important for reducing testing costs and animal experimentation, but it also serves as a sound basis for adequate risk assessment of chemicals. Both ethical and feasibility considerations are driving a reduction of the number of animals and testing costs, whilst ensuring the accurate identification of chemical hazards. Intelligent testing strategies are needed which make use of existing information as well as in vitro tests, QSARs and read across approaches. The purpose of this workshop is to report progress made in the development, validation and acceptance of alternative methods.

Titles of presentations:

Dr. Bas J. Blaauboer, The Netherlands

An in vitro test strategy for predicting human acute toxicity

Prof. Dr. Michael Schwarz, Germany

ReProTect: Hazard Assessment of Reproductive Toxicity



Dr. Erwing L. Roggen, Denmark

Sensitiv: Novel testing strategies for in vitro assessment of allergens

Dr. Laura Gribaldo, Italy

Where we are and what we still need: A realistic perspective on the validation of alternative methods

**Workshop 2:
Mechanisms of toxicity in risk assessment**

Understanding the mechanism of toxicity frequently reveals quantitative and qualitative differences between species and dose levels, in terms of the toxicological response. This symposium focuses on mechanistic studies in toxicology, and how these mechanistic data can be used in risk assessment.

The emphasis is on the practical application of mechanistic studies in assessing the risk to humans. Examples are provided from the agrochemical industry, industrial chemicals and from the pharmaceutical industry, with consideration of the consequences for the development of pharmaceuticals. The perspective of a regulatory body will provide a holistic overview of how the entire process can be applied to human health assessment.

Titles of presentations:

Dr. Volker Arlt, UK

Molecular clues to the aetiology of Balkan endemic nephropathy-associated urothelial cancer

Dr. Cliff Elcombe, UK

The use of Humanised Mice in the Risk Assessment of Non-genotoxic Carcinogens

Dr. Remi Bars, France

Role of Mechanistic Information in the Risk Assessment of Agrochemicals

Dr. Charles Humfrey, UK

Risk assessment of genotoxic impurities in pharmaceuticals

Dr. Elmar Gocke, Switzerland

Ethyl methanesulfonate (EMS): in vivo genotoxicity, cross species pharmacokinetic evaluation, and extrapolation to man

Prof. Dr. Gisela H. Degen, Germany

Mechanisms of carcinogenesis: Regulatory perspective

**Workshop 3:
Environmental chemicals and Food contaminants: are they a risk to public health?**

Development of novel strategies for chemical testing in 21st century in the new Europe regulation REACH, and changes in European legislation such as the forthcoming ban of animal testing for cosmetic ingredients call for a critical view on certain aspects related

to safety testing of environmental chemicals and ingredients of consumer products. This workshop will address key issues in an evaluation process, such as the likely mismatch between the aim to ensure a high level of chemical safety and the development of new or validated alternatives to animal testing, availability of referenced and reliable safety information on these chemicals (data bases), predictivity of in vitro genotox test results in relation to carcinogenicity of different groups of chemicals and the proposed TTC concept for cosmetics. In addition to environmental carcinogens, processing and heat treatment of food results in complex chemical reactions forming a wide spectrum of chemicals, including toxic and carcinogenic products. After the discovery of the formation of acrylamide during heat processing of food, more recent studies have also indicated that the simple organic molecule furan is present in a range of heat treated food items, such as coffee, canned and jarred foods including baby food. Formation of furan in food is thought to occur primarily through thermal degradation of carbohydrates, but amino acids, ascorbic acid and polyunsaturated fatty acids have also been identified as potential sources for furan in foods. Furan is a potent hepatotoxicant and liver carcinogen in rodents, showing a dose-dependent increase in cholangiocarcinomas in rats and hepatocellular adenomas and carcinomas in mice and rats following chronic exposure.

Titles of presentations:

Dr. Yue Ge, USA

Application of OMICS data to human health risk assessment of environmental chemicals

Dr. Geert F. Houben, The Netherlands

Exposure-driven safety assessment strategies; application of the threshold of toxicological concern - concept in safety assessment of chemically complex matrices

Prof. Dr. Kevin Chipman, UK

Role of genotoxic and non-genotoxic mechanisms in furan carcinogenicity

Prof. Dr. James E. Klaunig, USA

Genotoxicity and carcinogenicity of acrylamide

Prof. Dr. Jan Alexander, Norway

The role of flat dysplastic aberrant crypt foci induced in the colon by food contaminants

Mr. Niklas Johansson, Sweden

EFSA's risk assessment on PFOS and PFOA in the food

Workshop 4:

Immune function testing: Pro's and con's of the KLH-assay as an alternative for the PFC-assay

The T-cell Dependent Antibody Response (TDAR) is regarded as the most predictive assay for immune function testing when potential immunotoxic effects of compounds need to be studied. The IgM-Plaques Forming Cell (PFC) assay, using Sheep Red Blood Cells (SRBC) as the antigen, is currently the widely accepted and validated standard

test. According to ICHS8, any validated TDAR method may be applied for testing human pharmaceuticals. Since the PFC has a number of logistic and technical drawbacks, alternative methods are being developed. The fact that the PFC-assay is not mandatory for TDAR testing of drugs on the one hand allows more flexible approaches, which in specific cases may be better scientifically justified. However, on the other hand, this flexibility may lead to the lack of a proper evaluation due to a missing reference framework and due to difficulties with respect to reproducibility and comparability of the various TDAR assays. This emphasizes the need for properly validated test methods like the KLH-assay using Keyhole Limpet Hemocyanin (KLH) as antigen. As this assay uses a standardized antigen and since only blood samples are needed, animals do not have to be sacrificed enabling the determination of primary and secondary antibody responses in the same animal.

Titles of presentations:

Dr. Danuta Herzyk, USA

Comparison of immune functional tests using T-cell dependent antigens: A meta analysis

Dr. Jan-Willem van der Laan, The Netherlands

Regulatory view on the relevance of the TDAR in immunotoxicity testing

Prof. Dr. Kimber White, USA

Sensitivity of the KLH-assay versus PFC-assay in rodents

Dr. Steven Spanhaak, Belgium

Validation of the KLH-assay in rats: A European collaborative study

Workshop 5:

Lung injury, inflammation and repair: Fundamental aspects of lung toxicity

The workshop focuses on the basic aspects of lung toxicity induced by relevant lung toxicants, such as ambient particulate matter, nanoparticles, cigarette smoke, and allergic agents. It considers fundamental new insights into the mechanisms of lung injury from molecular events involving danger and pattern recognition, oxidative stress, and changes in signal transduction pathways to inflammation, repair and remodeling. In particular, pulmonary inflammatory reactions of the innate and the adaptive system are differentially elicited by the various types of exposures, and attempts will be made to understand how the various inflammatory patterns develop and may or may not relate to the development of major chronic pulmonary diseases, such as lung cancer, COPD, fibrosis, or allergies. In vitro and in vivo models will be used in investigating these toxicity pathways, and they will be evaluated towards their use in human risk assessment.

Titles of presentations:

Dr. Amir Yazdi, Switzerland

Inflammasomes - danger sensing platforms controlling IL-1beta activation

Prof. Dr. Francelyne Marano, France

Effects of fine atmospheric particles on human respiratory epithelium: The role

of organic compounds in oxidative stress, inflammatory and repair responses

Prof. Dr. Jane A. Mitchell, UK

Oxidative stress by environmental and host derived sources leading to lung inflammation

Dr. Hans-Jürgen Haussmann, Germany

Inflammatory Processes in a Mouse Model of Chronic Pulmonary Diseases by Cigarette Smoke Inhalation

Dr. Christian Martin, Germany

Mechanistic aspects of in vivo and in vitro testing of allergic agents

Prof. Dr. Francois Huaux, Belgium

Lung fibrosis is uncoupled from inflammation in response to toxic nano- and micro-particles

Workshop 6:

Evidence-based decisions and toxicovigilance in human toxicology

Toxicology and medicine have many similarities that might warrant evidence-based approaches to human clinical toxicology. The role of new sophisticated organ support techniques such as MARS and new expensive antidotes need to be discussed for evidence-based clinical toxicology. Hospitals treating human poisonings and poison control centres (PCC) are creating a substantial quantity of unpublished case reports of human poisoning and also data on non-poisoned cases. These data may form the basis for different aspects of 'toxicovigilance' which can support surveillance measures and regulatory risk assessment. Also, all strategies implemented in safety pharmacology are strongly evidence-oriented. Practicable methods for evidence-based information assessment in toxicology are referred to as Evidence-Based Toxicology (EBT) in analogy to Evidence-Based Medicine (EBM). The use of systematic reviews and meta-analyses is now a useful paradigm in medicine for reaching unbiased decisions for treatment and prevention of individuals/risk groups.

Titles of presentations:

Dr. Hugo Kupferschmidt, M.D., Switzerland

Overview on Evidence-based Clinical Toxicology

Dr. Bruno Mergarbane, France

Antidotes for poisonings: more need of evidence to improve clinical practice

Dr. Herbert Desel, Germany

Role of Poison Control Centres in Human Data Collection and Dissemination of New Recommendations

Dr. Ana Ferrer-Dufol, Spain

The Role of Clinical Toxicology Units in Public Hospitals. An important source of data for Toxicosurveillance

Dr. Stacey Wyke, UK

The DeNaMiC project: Description of the nature of accidental misuse of chemicals and chemical products

Workshop 7: Safety and Usage of Herbal Medicines: Issues for Toxicology

During recent years, there has been a rapidly growing interest in the consumption of herbal remedies in industrialized and developing countries. Herbal medicines are often aggressively advertised as soft medicines or pure natural products and as alternative to pharmaceutical drugs. Besides questionable efficacy, users of herbal medicines are at risk of toxicity and adverse interactions of herbal preparations due to their frequent contaminations with metals, pesticides and synthetic drugs. This workshop will summarize relevant scientific developments in this field in a transdisciplinary manner.

Titles of presentations:

Prof. Dr. Rudolf Bauer, Austria

Pharmacokinetics of Herbal medicines with regard to their safety and efficacy

Prof. Dr. Kurt Hostettmann, Switzerland

Methodologies for the evaluation of safety and standardisation of herbal medicines

Prof. Dr. Nursen Basaran, Turkey

Adverse Effects and Drug Interactions of Herbal Medicines

Dr. Jaqueline Koch, Germany

Safety of Herbal Medicinal Products – Regulatory Approach

Workshop 8: Zebrafish as a toxicogenomic model of the effects of chemicals on the developing vertebrate embryo

There is a high demand by regulators and industry for reliable and ethically acceptable methods to evaluate the developmental toxicity of pharmaceuticals, industrial chemicals and waste products. For example, several tens of thousands of chemicals need to be assessed within the European Union REACH (i.e. Registration, Evaluation and Authorisation of Chemicals) initiative for the safety testing and risk assessment of chemicals in the coming years. Cheap and reliable alternative methods are needed to cope with this enormous screening demand. The zebrafish embryo is a vertebrate system with great merits for this undertaking. The zebrafish was introduced more than two decades ago as a model to study development and neurobiology. In parallel, the zebrafish embryo has evolved into a model for studies of chemical impact. It permits efficient compound screens and is, for example, used in a standardised assay for sewage testing in Germany, replacing traditional toxicological tests with adult fish. Given the experimental advantages such as small size of the embryo, cheap maintenance, availability of a genome sequence and many mutants, the zebrafish embryo is one of the most promising vertebrate systems for mechanistic toxicology and toxicogenomics. Although the zebrafish embryo is a cost-effective and ethically acceptable alternative

model for these applications, substantial development is still needed to support the systematic use of the zebrafish embryo in these areas. The aim of this workshop is to present the value of zebrafish as a model system in toxicology, but also to highlight the still existing shortcomings and needs for improvements. Input from molecular toxicology, toxicogenomics and pharmacokinetics needs to be combined with non-biological disciplines such as high throughput microscopy, liquid handling and 3D imaging to fully exploit zebrafish as a model system in toxicology.

Titles of presentations:

Prof. Dr. Thomas Braunbeck, Germany

Zebrafish embryos as a model in general toxicology

Dr. Thomas Broschard/ Mr. Stefan Weigt, Germany

In vitro teratogenicity testing with zebrafish embryos combined with a mammalian metabolic activation system: Pro's and cons'

Dr. Robert Tanguay, USA

In vivo approaches to define toxic response mechanisms

Prof. Dr. Jeroen den Hertog, The Netherlands

Analysis of signaling pathways by knock down screens in zebrafish

Dr. Randall T. Peterson, USA

In vivo small molecule discovery in zebrafish

Prof. Dr. Uwe Strähle, Germany

Barcode-like toxicogenomic profiles identify several hundred genes that respond to environmental toxicants in the zebrafish embryo

Workshop 9:

Assessment of the action of chemical mixtures and impact on the concept of toxicological threshold of concern (TTC)

In reality, exposure of humans to toxic compounds usually involves mixtures. The toxicological outcome of this exposure may not be simply the additive response of the toxicity of the individual components. Which interactions are negligible and which are important? How do these interactions influence the concept of TTC?

The workshop will discuss possibilities for better insight in these complex inter-relationships and how to discriminate between negligible and important interactions. These ideas will also be discussed in the context of the concept of TCC.

Titles of presentations:

Prof. Dr. Ursula Gundert-Remy, Germany

General principles for the toxicological assessment of mixtures

Prof. Dr. Lutz Werner, Germany

Deviation from addictivity in mixture toxicity: Non-linear dose-response and relevance for genotoxicity

Mr. Paul S. Price, USA

Use of Cramer classes and additive models of mixture toxicity: application to real world mixtures and an assessment of factors that minimize the potential for synergy

Prof. Dr. Alan Boobis, UK

Critical analysis of literature on low dose synergy for use of TTC in screening chemical mixtures for risk assessment

Workshop 10: Photosensitization - What makes the difference?

Photosensitization - officially covering photoirritation, photoallergy as well as photogenotoxicity - is known and has been studied already for many years. However, multidisciplinary efforts are still required in order to narrow the gap between photochemical reactivity, exposure scenarios in vivo (compounds as well as irradiation) and clinical relevance. This workshop will provide the opportunity to share state-of-the-art research from different disciplines to provoke discussion. In addition, this event would further support the scientific basis for regulatory activities such as regulations for drug development by the EMEA.

Titles of presentations:

Dr. Francisco Boscá, Spain

Physicochemical behaviors of photosensitizing drugs

Prof. Dr. Elisabeth R. Gaillard, USA

Phototoxicity of the Human Retina

Dr. Peter Ulrich, Switzerland

Preclinical Photosensitization Testing: Models and Challenges

Prof. Dr. James Ferguson, UK

Clinical Photosensitisation: Phototoxicity Testing in Man

Workshop 11: Methods in *in vitro* embryotoxicity testing

EU and other super-/international institutions have encouraged the reduction of animal use and the development of alternative methods to substitute animal testing of chemical toxicity. Within the last years, it has become widely acknowledged that chemical substances may exert negative impact on the development of the human central nervous system. In vivo guidelines for testing of developmental neurotoxicity (DNT) have been developed by OECD and the US-EPA that requires the use of many animals. Thus, a world wide effort is arising to replace DNT animal testing with predictive in vitro methods. This workshop will focus on methods in in vitro embryotoxicity testing, including DNT testing.

Titles of presentations:



Prof. Dr. Nigel Brown, UK
State of the art: Development of methods

Dr. Matthias Festag, Switzerland
Molecular and cellular endpoints of embryotoxicity in the embryonic stem cell test (EST)

Prof. Dr. Elena Menegola, Italy
Relevance of WEC as additional test to animal-based testing

Dr. Ellen Fritsche, Germany
Human neurospheres as a potential tool for developmental neurotoxicity testing

Workshop 12: AhR biology; what does it tell us about dioxin toxicity?

Research into dioxin, and its receptor, the Aryl Hydrocarbon Receptor (AhR), continues to provide fascinating insight into biology. This workshop will set out some of the advances in understanding of mechanisms in Dioxin action, derived from genetic approaches to understanding dioxin toxicity, and relate these to our current understanding of dioxin toxicity. In addition, the session will consider current advances in the science that underpins the risk assessment of dioxin. Crosstalk between signaling pathways is emerging as a highly complex tier of regulating the toxic/ physiological response to chemicals. This is particular pertinent considering the ability of CAR, PXR, PPAR and AHR to crosstalk with other transcription factor systems such as Nrf2, ER, NFkB, Hif.

Titles of presentations:

Prof. Dr. Chris Bradfield, USA
Mechanisms of Ah receptor action

Prof. Dr. Raimo Pohjanvirta, Finland
The structure of the AH receptor transactivation domain as a determinant of dioxin sensitivity

Dr. Robert Barouki, France
The Aryl hydrocarbon Receptor and cellular plasticity

Prof. Dr. Charlotte Esser, Germany
Cell-specific action and toxicity of the AhR: focus immune system

Dr. David Bell, UK
Investigating partial agonism of the Aryl Hydrocarbon Receptor

Oral Sessions

OS 1

Furan Toxicity and Toxicity of Food Contaminants

Titles of presentations:

Sabrina Moro, Germany

Identification of target proteins of furan in rat liver

Carolin Hamberger, Germany

Analysis of DNA binding of furan in rat liver by accelerator mass spectrometry

Tao Chen, UK

Modulation of hepatic gene expression and DNA methylation in furan treated Sprague-Dawley Rats

Prof. Dr. Pasquale Mosesso, Italy

Cytogenetic effects of furan and its key metabolite cis-2-butene-1,4-dial in mammalian cells in vitro

Dr. Kenichi Kobayashi, Japan

Effects of Gestational and Lactational Exposure to Bisphenol A on Development and Reproduction in F1 rat Offspring

Dr. Andreas Kampkötter, Germany

Flavonoids extent life span, increase stress resistance and modulate intracellular signalling in the model organism *Caenorhabditis elegans*

OS 2

Toxicity of PCB and other polychlorinated materials

Titles of presentations:

Dr. Patrick Andersson, Sweden

Classification of NDL-PCB congeners based on extensive in vitro screening and multivariate statistics

Patrick De Boever, Belgium

Gene expression profiling in rat cerebellum and striatum following in utero and lactational exposure to non-dioxin-like polychlorinated biphenyls

Dr. Matti Viluksela, Finland

Toxicological Profile of High Purity PCB 180 in Adult Rats

Robert Roos, Germany

Hepatic effects of a highly purified PCB 180 in adult Sprague-Dawley rats

Dr. Vicente Felipo, Spain

Effects of developmental exposure to different NDL-PCB congeners on cognitive and motor function. Possible underlying mechanisms

Dr. Miroslav Machala, Czech Republic

Effects of non-dioxin-like PCBs (NDL-PCBs) on signaling pathways contributing to liver tumor promotion and carcinogenesis

Dr. Guillaume Pelletier, Canada

Transcriptional response to neurotoxicants: Impact of gender, developmental stage and co-exposure on rat cerebellum and hippocampus gene expression following perinatal exposure

Dr. Hellmuth Lilienthal, Germany

Effects of purity-controlled PCB52 and PCB180 on dopamine-dependent behavior in rat offspring after maternal exposure

Dr. Hanna M. Miettinen, Finland

Effects of perinatal exposure to high purity PCB180 on rat offspring

Dr. Beat Brüscheiler, Switzerland

Drinking water contamination by polychlorinated butadienes

OS 3

European Toxicology Initiatives

Titles of presentations:

Ines Pieper, Germany

Biosimulation of Drug Metabolism – A Yeast Based Model

Dr. Federica Lodí, Italy

Guidance documents on submissions for the technical and toxicological evaluation of substances proposed for use as food additives or nutrient sources in the EU

Dr. Michael Bartels, USA

Development of a Tiered Set of Modelling Tools for Derivation of Biomonitoring Guidance Values

Dr. Thomas Steger-Hartmann, Germany

In silico prediction of in vivo toxicities (eTox) - The Innovative Medicines Initiative Approach

Dr. Jonathan Moggs, Switzerland

Biomarkers and molecular tumour classification for non-genotoxic CARcinogenesis

Dr. Frank Dieterle, Switzerland

The European IMI SAFE-T Consortium: Qualification of Translational Safety Biomarkers

Dr. Matthias Gottwald, Germany

The Innovative Medicines Initiative IMI - a new collaborative approach to drug safety testing and beyond



Prof. Dr. Daniel R. Dietrich, Germany
European Modular Education and Training Programme in Safety Sciences for Medicines (SafeSciMET)

OS 4 **Early Predictive Toxicology**

Titles of presentations:

Dr. Kurt Boudonck, United States
Metabolomics: A Novel Tool for Understanding the Early-Stage Mechanistic Underpinnings of Drug Action and Safety

Nathalie Lambrechts, Belgium
THP-1 monocytes but not macrophages as a potential alternative for CD34+ dendritic cells to identify chemical skin sensitizers

Stefan Weigt, Germany
Teratogenic effects of metabolically activated Trimethadione in Zebrafish embryos (Danio rerio)

Prof. Dr. Abraham Nyska, Italy
Changes in endothelial cell kinetics after short-term rat gavage exposure to riddelliine--an hepatic endothelial carcinogen

Dr. Irene Edebert, Sweden
In vitro detection of pharmaceutical compounds that disturb mitochondrial functions

Laura Cerrato, Spain
In vitro sensitivity of granulo-monocytic progenitors as a new endpoint in the ACuteTox project

Prof. Dr. Erwin Eder, Germany
1,N2-Propanodeoxyguanosine Adducts of 4-Hydroxy-2-nonenals as Highly Specific Markers for Cancer Risk from Oxidative Stress and Lipid Peroxidation

Dr. Jonathan Moggs, Switzerland
Genome-wide analysis of DNA methylation profiles in a preclinical animal model of non-genotoxic carcinogenesis

OS 5 **Regulatory Toxicology**

Titles of presentations:

Nigel Pcikersgill, France
Ambulatory intravenous infusion for use in preclinical studies in the dog

Dr. Hervé Ficheux, France
How to integrate safety pharmacology end-points during toxicological studies in non human primates for biologics?

Dr. Guillaume Chevalier, France

Evaluation of the feasibility of juvenile toxicity study in the Göttingen Minipig

Dr. Detlef Wölfle, Germany

Risk assessment of di-isobutyl phthalate and di-n-butyl phthalate in food

Ivana Vidić Štrac, Croatia

Migration of Di-(2-Ethylhexyl) phthalate in normal saline during one year

Dr. Karin Burnett, UK

Risk assessment of mixtures of mutagenic and carcinogenic chemicals: A regulatory perspective from the UK

OS 6

Receptor Mediated Toxicity

Titles of presentations:

Prof. Dr. Pia Monica Lind, Sweden

A polymorphism in the Ah-receptor gene is related to hypertension and endothelium-dependent vasodilation

Maria Herlin, Sweden

The role of AhR in doxin-induced modulation of bone microarchitecture and mechanical strength

Lenka Vykopalova, Czech Republic

Identification and toxicological evaluation of musk fragrances and thiophenes in extracts of river sediment samples

Dr. Lih-Ann Li, Taiwan

Dioxin-estrogen transcriptional interaction in lung cancer cell lines expressing different receptor phenotypes

Helen Håkansson, Sweden

Quantitative characterization of changes in bone geometry, density and biomechanical properties in two rat strains with different Ah-receptor structure following long-term exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin

Jirina Prochazkova, Czech Republic

The crosstalk between Ah receptor and canonical Wnt signaling extends beyond a simple regulation of AhR expression

Martin Chopra, Germany

Inhibition of apoptotic DNA-fragmentation by 2,3,7,8-tetrachlorodibenzo-p-dioxin

Prof. Dr. Guisepe Carruba, Italy

Estrogen receptor α ; (ER α), ER β ; and their variants may be responsible for estrogen implication in human liver carcinogenesis and tumor progression

Dr. Nicole Schupp, Germany

Aldosterone causes DNA damage in vitro and in kidneys of DOCA/salt rats, mediated by the mineralocorticoid receptor

Hanno Bothe, Germany

Effect of flavonoids on metabolism and excretion of PAHs in Caco-2 cell line

OS 7

Immunotoxicology

Titles of presentations:

Prof. Dr. Jacques Descotes, France

Immunotoxicology of very small molecules: nanomedicines and nanomaterials

Dr. Montserrat Mitjans, Spain

Assessment of the potency of contact allergens by using IL-8 release and p38 MAPK activation in THP-1 cells

Dr. Saadia Kerdine-Römer

Signal transduction induced by small chemicals in human dendritic cells

Prof. Dr. Marc Monestir, USA

Metal-Induced Autoimmunity

Dr. Dean Naisbitt, UK

The role of metabolism in T-cell mediated drug hypersensitivity reactions

Dr. Carsten Göbel, Germany

Skin Sensitization to p-phenylenediamine: The role of exposure time and dose for the elicitation response in allergic patients

Solvor Berntsen Stølevik, Norway

Effect of dietary contaminants on in vitro cytokine release does not reflect in-vivo based classification of immunotoxicity

Dr. Philippe Ancian, France

Effects of Cyclosporine and Hexachlorobenzene on KLH TDAR Correlate with Lymphocyte Subset Analysis and Lymphoid Tissue Histology in Rats

OS 8

Environmental Toxicology

Titles of presentations:

Dr. Tomas Möller, Germany

Retrospective evaluation of Acute Reference Doses (ARfD) for pesticides in the European Union

Villem Aruoja, Estonia

Effect of substituents on the ecotoxicity of anilines and phenols



Dr. Sibel Özden, Turkey

Effects of methiocarb on lipid peroxidation in rat tissues

Berend Oosterhuis, Hungary

Interaction of ABC transporters with Environmental Toxicants

Daniel Borg, Sweden

Perinatal tissue distribution of perfluorooctane sulphonate (PFOS) in mice

Dr. Renata Silva, Portugal

P-glycoprotein induction as a cellular protection tool against xenobiotics toxicity

Dr. Kamil Musilek, Czech Republic

Small quaternary AChE inhibitors - implication for pretreatment of OP poisoning or MG treatment

Dr. Uluku Undeger, Turkey

Effects of herbicide pendimethalin on uterotrophic response and gene expression in rat uterus

OS 9

In vitro Models for Evaluation of Target Organ Toxicity

Titles of presentations:

Dr. Katja Matheis, Germany

Cross study comparison of three compounds causing kidney proximal tubule damage by combining omics data and conventional toxicological endpoints

Jan Wiese, Germany

Genotoxic effects of Cd, Co and Pb on cultures of human lung cells after single and combined application

Jesper Hedberg, Sweden

Molecular profiling of human kidney injury using antibody suspension bead arrays

Dr. Claude Nancy, France

Predictive in vitro models of in vivo cataract formation by an H3-receptor antagonist

Markus Schug, Germany

Solved in vivo/in vitro discrepancy in methapyrilene induced gene alterations in rat liver and in collagen sandwich cultured primary rat hepatocytes

Nicole Torno, Germany

Comparison of progesterin transcriptional profiles in rat mammary gland using laser capture microdissection and whole tissue sampling

Yuksel Cetin, Italy

Comparative pulmonary toxicity of cadmium chloride on monoculture and co-culture of an in vitro alveolar barrier model

Prof. Dr. Fernando Remião, Portugal

Adrenaline and reactive oxygen species elicit proteome and energetic metabolism modifications in freshly isolated rat cardiomyocytes

Prof. Dr. Francis Lévi, France

Circadian timing for cancer treatments

OS 10

Animal free strategies in Skin Toxicology

Titles of presentations:

Dr. Walter Diembeck, Germany

The COLIPA strategy for animal-free genotoxicity testing

Pierre Aeby, Belgium

The COLIPA strategy for developing and evaluating animal alternatives for skin sensitization testing

Arnhild Schrage, Germany

Experiences with the HET-CAM method in the routine testing of a broad variety of chemicals and formulations

Dr. Jean-Claude Ourlin, France

Differences in biomarker induction profiles amongst three reference chemical contact sensitizers in the in vitro THP-1 model

Dr. Jörg Fahrner, Germany

Genetically engineered Clostridium botulinum C2 toxin as a molecular trojan horse to deliver biomolecules into mammalian cells

Graham Ellis, Switzerland

Development of a high-throughput keratinocyte-based standard assay to detect skin sensitizers based on ARE-dependent gene activity

Dr. Andreas Schepky, Germany

Development of an in vitro assay for the assessment of photosensitizers

Dr. Daniel Bacqueville, France

Assessment of solar radiation-induced DNA damage and apoptosis in pig ear skin organ culture and reconstructed human epidermis

FREE COMMUNICATIONS

CODE	Keywords	Abstract-Title	Mainauthor	First name	Institution	City	Country
M - METHODS IN TOXICOLOGY							23
M01	1, 33, 42	Hepatoprotective effects of polygonum bistorta and active principles on albino rats intoxicated with carbon tetrachloride and paracetamol	Mittal	Deepak	Jiwaji University	Gwalior	INDIA
M02	1, 2, 47	Sensitivity of telemetry to predict QT interval prolongation in dog toxicity studies: Assessment of effects of Moxifloxacin by invasive and non-invasive methods	Festag	Matthias	Hoffmann-La Roche	Basel	SWITZERLAND
M03	1, 26, 36	Approach to predicting the human abuse liability using Conditioned Place Preference (CPP) method in rats	Miyawaki	Izuru	Dainippon Sumitomo Pharma Co., Ltd.	Osaka	JAPAN
M04	1, 26, 43	Classification of the model drug (ambroxol hydrochloride) into the Biopharmaceutics Classification System (BCS) and prediction of the intestinal transport using Caco-2 cells	Stetinova	Vera	Institute of Experimental Biopharmaceutics&PRO. MED.CS Praha, co.	Hradec Kralove	CZECH REPUBLIC
M05	1, 5, 37	Development of an in vitro assay for the assessment of photosensitizers	Schepky	Andreas	Beiersdorf AG	Hamburg	GERMANY
M06	1, 5, 6	Predictive in vitro models of in vivo cataract formation by an H3-receptor antagonist	Momburg	Ralph	Biologie Servier	Gidy	FRANCE
M07	1, 2, 37	In vivo toxicological evaluation and FT-Raman spectroscopy correlations on a photochemical melanoma model	Dehelean	Cristina Adriana	Victor Babes University of Medicine and Pharmacy	Timisoara	ROMANIA

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M08	1, 6, 15	Comparison of progestin transcriptional profiles in rat mammary gland using laser capture microdissection and whole tissue sampling	Torno	Nicole	Technical University	Berlin	GERMANY
M09	1, 26, 30	Binary mixtures of pharmaceuticals and nickel	Rudzok	Susanne	Helmholtz-Centre for Environmental Research	Leipzig	GERMANY
M10	1, 43, 44	Development of a model for long term bile collection in Göttingen minipigs	Glerup	Peter	LAB Research	Lille Skensved	DENMARK
M11	1, 30, 44	Influence of conjoint treatment of NAC+ Zn +Se on long-term mercury exposure in male rats	Joshi	Deepmala	Jiwaji University	Gwalior	INDIA
M12	1, 2, 5	The rapid analysis of opiates from low volume whole blood samples by LC-MS/MS utilizing TurboFlow methods	Scurati	Samuele	Thermo Fisher Scientific	Rodano (MI)	ITALY
M13	1, 2, 4	Development of a quantitative detection system for cereulide, the emetic Bacillus cereus toxin	Bauer	Tobias	Technische Universität München	Freising	GERMANY
M14	1, 2, 47	ECG data acquisition by external telemetry for toxicology (ET2) in freely-moving dogs: validation by comparison with invasive telemetry.	Briffaux	Jean-Paul	MDS Pharma Services	Saint Germain sur Arbresle	FRANCE
M15	1, 5, 15	Insulin-producing cells can be achieved in vitro by direct transfection of mouse pdx-1 into rat mesenchymal stem cells	Kadivar	Mehdi	Pasteur Institute of Iran	Tehran	IRAN, ISLAMIC REPUBLIC OF
M16	1, 4, 6	Influence of different ways of euthanasia on the activity of cholinesterases in the rat	Novotny	Ladislav	Faculty of Military Health Sciences	Hradec Kralove	CZECH REPUBLIC

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M17	1, 26, 43	GC-MS Method for methadone quantification in plasma	Ciobanu	Anne-Marie	University of Medicine and Pharmacy Carol Davila Bucharest, Faculty of Pharmacy	Bucharest	ROMANIA
M18	1, 4, 43	Kinetic glutathione chemoassay -a non-animal component of integrated testing strategies to identify compounds with an electrophilic potential for reactive toxicity	Böhme	Alexander	UFZ - Helmholtz Centre for Environmental Research	Leipzig	GERMANY
M19	1, 4, 27	An examination of the toxicity of small heterocycles towards the ciliates Tetrahymena pyriformis	Schramm	Franziska	Technical University Bergakademie Freiberg	Freiberg	GERMANY
M20	1, 32, 36	Application of developmental neurotoxicology: in-vivo and post-mortem practical approaches	Oberto	Germano	Research Toxicology Centre S.p.A.	Pomezia	ITALY
M21	1, 5, 45	An efficient direct exposure method for studying the effects of native atmospheres	Aufderheide	Michaela	CULTEX Laboratories GmbH	Hannover	GERMANY
M22	1, 9, 37	The COLIPA strategy for animal-free genotoxicity testing	Diembeck	Walter	Beiersdorf AG	Hamburg	GERMANY
M23	1, 37, 39	The COLIPA strategy for developing and evaluating animal alternatives for skin sensitization testing	Aeby	Pierre	COLIPA	Auderghem, Brussels	BELGIUM
V - In Vitro Toxicology							74
V01	5, 18, 35	In vitro effect of three compounds of cigarette smoking particle phase on human sperm creatine kinase activity	Ghaffari	Mohammad Ali	University	Ahwaz	IRAN, ISLAMIC REPUBLIC OF

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V02	4, 5, 10	The cytotoxic activity of various medicinal plants on the cancer cells	Amirghofran	Zahra	Shiraz University of Medical Sciences	Shiraz	IRAN, ISLAMIC REPUBLIC OF
V03	5, 11, 39	Immunomodulatory effects of <i>Salvia mirzayanii</i> and induction of apoptosis in proliferative lymphocytes	Esmaeilbeig	Maryam	Fasa University of Medical Sciences	Fasa	IRAN
V04	5, 18, 32	Neuropathy target esterase in mouse embryonic stem cells	Pamies	David	Bioengineeri Institute. University of Miguel Hernández	Elche	SPAIN
V05	5, 25, 32	In vitro sensitivity of granulo-monocytic progenitors as a new endpoint in the ACuteTox project	Cerrato	Laura	Ciemat	Madrid	SPAIN
V06	4, 5, 39	Development of an in vitro sensitization assay based on monocyte-derived dendritic cells	Reuter	Hendrik	Beiersdorf AG	Hamburg	GERMANY
V07	4, 5, 18	Cytotoxicity of selected natural substances in human colon carcinoma Caco-2 cells	Fojtíková	Iva	Faculty of Medicine and Dentistry, Palacky University	Olomouc	CZECH REPUBLIC
V08	1, 5, 44	Use of the in vitro model for studying the effects of secondary metabolites produced by indoor fungi	Kovacikova	Zuzana	Slovak Medical University	Bratislava	SLOVAKIA
V09	5, 43, 44	Dynamic culture in multi compartment bioreactor upregulates cytochrome expression in human hepatocytes	Ahluwalia	Arti	University of Pisa	Pisa	ITALY
V10	2, 5, 10	Development of an in vitro test system to identify compounds with cell transforming activity	Thierbach	René	University of Veterinary Medicine Hannover	Hannover	GERMANY

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V11	5, 11, 43	Assessment of apoptosis and cell cycle alterations in human peripheral blood lymphocytes exposed to okadaic acid	Valdiglesias	Vanessa	University of A Coruña	A Coruña	SPAIN
V12	5, 7, 11	Differential apoptosis response of HL-60 and HepG2 cells to docosahexanoic acid	Delgado	M.Eugenia	Universidad Complutense de Madrid	Madrid	SPAIN
V13	5, 12, 43	Characterization of human cell line-based models for selective xenobiotic transport at the materno-fetal placental interface	Ritz	Vera	Federal Institute for Risk Assessment (BfR)	Berlin	GERMANY
V14	5, 26, 44	The antidiabetic Metformin is toxic to liver mitochondria of Zucker Diabetic Fatty (ZDF) rats: a cellular metabolomic study with ¹³ C-lactate and carbon ¹³ nmr.	Baverel	Gabriel	NSERM U820, Laennec Faculty of Medicine	Lyon Cedex 08	FRANCE
V15	2, 5, 37	Development of a high-throughput keratinocyte-based standard assay to detect skin sensitizers based on ARE-dependent gene activity	Ellis	Graham	Givaudan Suisse	Venier	SWITZERLAND
V16	2, 5, 9	RAD51C, Cystatin A, p53, and Nrf2 luciferase-based reporter assays in metabolic competent HepG2 cells for the rapid assessment of genotoxicity and oxidative stress in the early research phase	Schoonen	Willem	Schering-Plough	Oss	NETHERLANDS
V17	1, 5, 26	Mycophenolic acid impairs growth and differentiation of rat embryos in vitro at subtherapeutic concentrations	Eckardt	Kathrin	Institute of clinical Pharmacology and Toxikology	Berlin	GERMANY
V18	5, 37, 44	Metabolic capacities of in vitro alternatives for chemical testing in skin: insights from the Colipa skin metabolism project	Götz	Christine	IUF GmbH	Düsseldorf	GERMANY

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V19	5, 30, 40	Comparative pulmonary toxicity of cadmium chloride on monoculture and co-culture of an in vitro alveolar barrier model	Cetin	Yuksel	European Commission, JRC, IHCP	Varese	ITALY
V20	1, 2, 5	Monitoring of cardiac cytotoxicity in real-time with the xCELLigence system	Seiler	Alexander	Roche	Penzberg	GERMANY
V21	1, 5, 9	Cytotoxicity and genotoxicity testing of extracts of snus tobacco	Neilson	Louise	British American Tobacco	Southampton	UNITED KINGDOM
V22	5, 15, 18	Comparative changes in gene expression profiles induced by phenobarbital, troglitazone and aflatoxin B1 in primary human hepatocytes and HepaRG cells	Rogue	Alexandra	INSERM U620	Rennes	FRANCE
V23	5, 9, 25	Evaluation of DNA damage on human pulmonary cells exposed to organic extract of PM10 collected in urban and rural areas	Cavallo	Delia	ISPESL-National Institute for Occupational Safety and Prevention	Monteporzio Catone, Rome	ITALY
V24	2, 5, 9	Cyto-genotoxic effect of styrene and acrylonitrile combination	Strafella	Elisabetta	Polytechnic University of Marche	Ancona	ITALY
V25	5, 15, 37	THP-1 monocytes but not macrophages as a potential alternative for CD34+ dendritic cells to identify chemical skin sensitizers	Lambrechts	Nathalie	VITO-CARDAM	Mol	BELGIUM
V26	1, 4, 5	Cytotoxicity of the mycotoxin enniatin B in tumour and non-tumour cells	Behm	Claudia	Leibniz Research Centre for Working Environment and Human Factors at the TU Dortmund (IfADo)	Dortmund	GERMANY

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V27	5, 6, 44	Modulation of cytochrome P450 1A1 expression and activity in intestinal Caco-2 cells by components of Ginkgo biloba-based dietary supplements	Ribonnet	Laurence	Université catholique de Louvain	Louvain-la-Neuve	BELGIUM
V29	4, 5, 43	Efficient accumulation of PCBs in primary cultures of rat adipocytes: a tool to study the toxicokinetics of these persistent organic pollutants	Bourez	Sophie	Université catholique de Louvain	Louvain la Neuve	BELGIUM
V30	1, 5, 37	N-Acetyltransferase 1 (NAT1) and Cytochrome P450 1 (CYP1) activities in subtypes of HaCaT cells	Bonifas	Jutta	University Trier	Trier	GERMANY
V31	5, 6, 33	Effects of the mycotoxins Aflatoxin B1, Zearalenone and Ochratoxine A on nuclear receptors PXR, CAR and AhR expression and corresponding CYP 450 in primary cultured human hepatocytes	Hassen	Wafa	Institut de Biotechnologie Supérieur de Monastir	Monastir	TUNISIA
V32	1, 5, 6	Comparison of toxic effects on CHO-KL and VERO cells after individual and combined treatment with Fusarium mycotoxins, beauvericin, deoxynivalenol and the T-2 toxin.	Font	Guillermina	University of Valencia	Burjassot (Valencia)	SPAIN
V33	2, 5, 33	In vitro assessments of hepatic toxicity using the xCELLigence real-time cell analyzer	Schmitz	Markus	Roche Diagnostics GmbH	Penzberg	GERMANY
V34	5, 6, 44	The mycotoxin zearalenone and its metabolites specifically interact with transporter proteins ABCC1, ABCC2, and ABCC3.	Lecoeur	Sylvaine	UMR INRA-DGER	Marcy l'Etoile	FRANCE
V35	5, 26, 32	Effect of triterpenoid saponins extracted from Hedera helix on the motoric activity of isolated stomach strips	Mendel	Marta	Warsaw University of Life Sciences	Warsaw	POLAND

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V36	1, 5, 32	The response of isolated gastrointestinal strips to reference substances' during long-term incubation	Chlopecka	Magdalena	Warsaw University of Life Sciences	Warsaw	POLAND
V37	1, 5, 32	The response of gastrointestinal smooth muscle strips to different reference substances may dependent on the preparation's origin	Dziekán	Natalia	Warsaw University of Life Sciences	Warsaw	POLAND
V38	1, 4, 5	Comparative cytotoxicity effect of zearalenone and its metabolites on the CHO-K1 cells	Font	Guillemina	Universitat de Valencia	Burjassot Valencia	SPAIN
V39	4, 5, 18	Effect of Rhamnocytrine-4'-beta-D-galactopyranoside, isolated from Astragalus hamosus L., in combination with cyclophosphamide on cell viability in freshly isolated rat hepatocytes	Kondeva-Burdina	Magdalena	Faculty of Pharmacy Medical University Sofia	Sofia	BULGARIA
V40	5, 9, 15	Solved in vivo/in vitro discrepancy in methapyrilene induced gene alterations in rat liver and in collagen sandwich cultured primary rat hepatocytes	Schug	Markus	Leibniz Research Centre for Working Environment and Human Factors	Dortmund	GERMANY
V41	5, 7, 11	Ochratoxin A induced oxidative stress promotes apoptosis in HepG2 cells	Hermenean	Anca	Vasile Goldis Western University, Faculty of Medicine	Arad	ROMANIA
V42	4, 5, 8	The effect of sulfur mustard on histone proteins in active and inactive chromatin	Jafari	Mahvash	Faculty of Medicine - Military medicine Institute, Baqiyatallah (a.s) University of Medical Sciences	Tehran	IRAN

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V43	1, 2, 5	Experiences with the HET-CAM method in the routine testing of a broad variety of chemicals and formulations	Schrage	Arnhild	BASF SE	Ludwigshafen	GERMANY
V44	1, 5, 6	Polybrominated diphenyl ethers disturb human neural development in vitro	Schreiber	Timm	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY
V45	5, 30, 36	An in vitro assay for assessing methylmercury and PCB153 effects on blood-brain barrier (BBB) integrity.	Roda	Elisa	University of Pavia	Pavia	ITALY
V46	4, 5, 32	Effects of uranium on viability of human liver and kidney cells	Rouas	Caroline	IRSN	Fontenay aux Roses	FRANCE
V47	5, 18, 37	Differences in biomarker induction profiles amongst three reference chemical contact sensitizers in the in vitro THP-1 model.	Ourlin	Jean-Claude	AFSSAPS	Vendargues	FRANCE
V48	4, 5, 25	PM10 in Milan: seasonal variations in eliciting biological effects on A549 cell line	Camatini	Marina	University	Milan	ITALY
V49	4, 5, 21	In vitro toxicity and molecular epidemiology of indoor <i>Aspergillus versicolor</i>	Majorosova	Maria	Slovak Medical University	Bratislava	SLOVAKIA
V50	4, 5, 10	Identification of a cycloisoemericellin derivative as a novel mycotoxin in <i>Aspergillus nidulans</i>	Michael	Michael	Universitätsmedizin in Göttingen	Göttingen	GERMANY
V51	2, 5, 26	Assessing combination effects of amphetamine designer drugs	Dias da Silva	Diana	School of Pharmacy, University of London	London	PORTUGAL
V52	5, 16, 37	Identification of proteins differentially expressed in dendritic cells upon exposure to contact allergens	Haase	Andrea	Federal Institute for Risk Assessment	Berlin	GERMANY
V53	4, 5, 26	In vitro detection of pharmaceutical compounds that disturb mitochondrial functions	Edebert	Irene	AstraZeneca R&D Södertälje	Södertälje	SWEDEN

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V54	4, 5, 26	Cytotoxic effects of hydroalcoholic extracts of Cucurbita pepo and Solanum nigrum compared with hydroalcoholic extract of Taxus baccata and Cisplatin on normal and cancer cell lines	Shokrzadeh	Mohammad	Faculty of Pharmacy, Mazandaran University of Medical Sciences; Faculty of HSE, Shaheed Beheshti University of Medical Sciences	Sari	IRAN
V55	1, 5, 32	Development of a human lung model system for the identification of chemical respiratory allergens in vitro	Szameit	Sandra	Austrian Research Centers GmbH - ARC	Seibersdorf	AUSTRIA
V56	5, 32, 41	Cytokine production after acute exposure of precision cut lung slices to NO ₂ and O ₃	Switalla	Simone	Fraunhofer Institute for Toxicology and Experimental Medicine	Hannover	GERMANY
V57	1, 2, 5	Modification and evaluation of the chicken embryotoxicity screening test (CHEST) as in vitro test system for embryotoxicity	Boehn	Susanne	BASF AG Experimental Toxicology and Ecology	Ludwigshafen	GERMANY
V58	1, 5, 37	International validation of an in vitro skin irritation test protocol(EpiDerm- SIT) to replace the in vivo rabbit test for hazard identification of chemicals	Liebsch	Manfred	Bundesinstitut für Risikobewertung	Berlin	GERMANY
V59	1, 5, 32	MucilAir: a novel human 3D airway epithelium model for long term toxicity testing	Huang	Song	Epithelix	Geneva	SWITZERLAND
V60	5, 11, 25	Chlorpyrifos induces apoptosis in murine thymocytes	Prakash	Atul	Indian veterinary Institute	Bareilly	INDIA

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V61	1, 5, 37	Development of an EpiDerm™ in vitro Skin Irritation Test (SIT) for the Globally Harmonized System (GHS) of classification and labeling of chemicals	Kandarova	Helena	MatTek Corporation	Ashland MA	UNITED STATES
V62	4, 5, 9	Multi-lab validation of an improved flow cytometric in vitro micronucleus assay using attached cell lines	Young	Robert	BioReliance	Rockville, Maryland	UNITED STATES
V63	1, 4, 5	StrataTest® tissue, a novel in vitro alternative for cytotoxicity testing"	Rasmussen	Cathy	Stratatech Corporation	Madison	UNITED STATES
V64	1, 5, 9	In vitro micronucleus testing by flow cytometry: greater throughput, high information content	Bryce	Steven	Litron Labs	Rochester	UNITED STATES
V65	1, 5, 37	Utility of StrataTest® an in vitro human skin model, for skin irritancy and corrosivity assessments	Gratz	Ken	Stratatech Corporation	Madison	UNITED STATES
V66	1, 2, 5	EpiOcular tissue model protocols for 1) REACH ocular irritation screening and 2) ultra-mild eye care cosmetics	Letasiova	Silvia	MatTek Corporation	Ashland, MA	UNITED STATES
V67	5, 6, 29	Newly developed oximes K117 and K127 - reactivation of human brain cholinesterases inhibited by tabun	Marek	Jan	University of Defence	Hradec Kralove	CZECH REPUBLIC
V68	5, 9, 32	Drug metabolizing enzyme activity of in vitro human dermal (EpiDerm™) and airway (EpiAirway™) epithelial models: relationship to genotoxicity of chemicals as determined by in vitro skin micronucleus assays	Kaluzhny	Yulia	Mattek Corporation	Ashland	UNITED STATES
V69	1, 5, 26	An in vitro model to assess the impact on respiratory cells of air pollutants	Persoz	Charles	Université Paris Descartes	Paris	FRANCE
V70	5, 26, 32	Mycophenolic acid impairs growth and differentiation of rat embryos in vitro at subtherapeutic concentrations	Eckardt	Kathrin	Institute of clinical Pharmacology and Toxikology	Berlin	GERMANY

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V71	5, 7, 41	Effect of Pseudomonas aeruginosa fractions containing endotoxin and exotoxin on peritoneal mice macrophages	Soleimani	Neda	School of Medical Sciences, Tarbiat Modares University	Tehran	IRAN
V72	1, 5, 39	Unraveling of the mode of action of immunotoxicity of TBTO using GSEA	Katika	Madhumohan	Rikilt	Wageningen	NETHERLANDS
V73	1, 5, 22	Optimization of culture and measurement conditions for improved stability and sensitivity of cell physiology monitoring systems for toxicology applications	Ehret	Ralf	Bionas GmbH	Rostock	GERMANY
V74	5, 9, 41	In-vitro methods for testing the biocompatibility of humic substances	Klöcking	Hans-Peter	Friedrich Schiller University	Jena	GERMANY
V75	1, 4, 5	Dentin adhesive agents and cyanoacrylates as potential bone adhesives in cranio-maxillofacial and plastic surgery - an in-vitro study of cell toxicity	Heinzelmann	Christian	Martin Luther University	Halle (Saale)	GERMANY
V76	1, 32, 36	Botulinum Neurotoxin transgenic zebrafish for dissecting neuronal circuits in vivo and creating novel variants for neurotherapeutics	Suster	Maximiliano	National Institute of Genetics	Mishima	JAPAN
O – Omics Technology and Application							22
O01	2, 14, 33	Toxicogenomics Application: Liver toxicity of a PTP-1B inhibitor drug candidate	Yu	Ping	MerckSerono, Ivrea, RBM Spa	Colleratto Giacosa	ITALY
O02	6, 14, 15	Metallothionein 2A core promoter region gene polymorphism and atherosclerosis disease	Kayaalti	Zeliha	Ankara University	Ankara	TURKEY
O03	14, 30, 43	Genetic background for mercury metabolism	Gundacker	Claudia	Medical University Vienna	Vienna	AUSTRIA
O04	14, 30, 40	Effect of IL-6 polymorphism on autopsy kidney metal levels	Yalcin	Serap	Ahievran University	Kirsehir	TURKEY

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O05	10,14,15	Dose-dependent effect of carcinogens on gene expression in TK6 cells	Godderis	Lode	KULeuven	Leuven	BELGIUM
O06	1, 9, 14	A novel in vitro system for the toxicological evaluation of genotoxic compounds	Boehme	Kathleen	Merck KGaA	Darmstadt	GERMANY
O07	14,18, 34	Cross study comparison of three compounds causing kidney proximal tubule damage by combining omics data and conventional toxicological endpoints	Matheis	Katja	Boehringer Ingelheim Pharma GmbH & Co. KG	Biberach an der Riss	GERMANY
O08	14,15, 25	Comparative transcriptomic responses to acute nickel and chlorpyrifos exposure in human HepG2	Bauer	Mario	Helmholtz Centre for Environmental Research - UFZ	Leipzig	GERMANY
O09	2, 14, 33	Development of an in vitro liver toxicity prediction model based on longer term primary rat hepatocyte cultures	Hrach	Jens	Forim GmbH	Mannheim	GERMANY
O10	5, 14, 16	Proteomic study and correlated signalling network analysis of human bladder cancer cell line (RT4) exposed to benzo(a)pyrene	Schmitz-Spanke	Simone	University Hospital Essen	Essen	GERMANY
O11	6, 14, 26	Metabolomics: A Novel Tool for Understanding the Early-Stage Mechanistic Underpinnings of Drug Action and Safety	Milburn	Michael	Metabolon	Research Triangle Park	UNITED STATES
O12	6, 14, 44	Thioacetamide-induced fulminant hepatic failure and encephalopathy in rats: a metabolomic approach in liver and serum	Zira	Athina	University of Athens, School of Pharmacy	Athens	GREECE
O13	14, 26, 32	Role of miRNA species and altered mRNA translation in Doxorubicin and Quinone mediated cardiotoxicity in vivo and in vitro.	Pointon	Amy	MRC Toxicology Unit	Leciester	UNITED KINGDOM

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O14	14, 15, 18	Utilizing functional genomics in yeast to discover novel biomarkers of benzene toxicity in humans	North	Matthew	The University of California Berkeley	Berkeley	UNITED STATES
O15	14, 15, 18	Gene expression profiling in the lung from cynomolgus monkeys repeatedly exposed to welding fume	Heo	Jeong-Doo	Korea Institute of Toxicology	Jeongeup	KOREA
O16	4, 14, 34	Molecular profiling of human kidney injury using antibody suspension bead arrays	Hedberg	Jesper	AstraZeneca R&D	Södertälje	SWEDEN
O17	1, 14, 15	Toxicogenomic response of azinphos-methyl treated zebrafish embryos and implication for the development of predictive models for chronic (fish) toxicity	Klüver	Nils	Helmholtz Centre for Environmental Research - UFZ	Leipzig	GERMANY
O18	14, 15, 28	Acrylamide exposure and dose-effect relations on the genome-wide gene expression profile of human target cells	Lampen	Alfonso	Federal Institute for Risk Assessment	Berlin	GERMANY
O19	14, 16, 30, 34	Novel quantitative proteomic strategies for assessing metals nephrotoxicity in rats	Malard	Véronique	cea	Bagnols sur Ceze	FRANCE
O20	14,15, 26	Changes in expression of GPX and SOD in mice treated with chronic doses of cyclophosphamide	Oraby	Hanaa	National Research Center	Grand Cairo	EGYPT
O21	14, 33, 44	Long term metabolic changes induced in idiosyncrasy-like liver toxicity	Conotte	Raphael	University of Mons	Mons	BELGIUM
O22	6, 14, 15	Effects of Tunisian medicinal plant extracts on the expression of cell defense genes in human leukemia cell line K562 using cDNA arrays. Correlation with related biological activities	Bouhlef	Inès	Faculty of Dental Medicine	Monastir	TUNISIA
N – Mechanism of Toxicity							
N01	4, 6, 26	A γ -Type Phospholipase A2 Inhibitor from Bothrops jararacussu Snake Plasma	Zambeli Oliveira	Clayton	Universidade de São Paulo (USP)	Ribeirão Preto	BRAZIL

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N02	4, 5, 6	The crosstalk between Ah receptor and canonical Wnt signaling extends beyond a simple regulation of AhR expression	Prochazkova	Jirina	Institute of Biophysics ASCR	Brno	CZECH REPUBLIC
N03	6, 8, 11	Inhibition of apoptotic DNA-fragmentation by 2,3,7,8-tetrachlorodibenzo-p-dioxin	Chopra	Martin	TU Kaiserslautern	Kaiserslautern	GERMANY
N04	6, 10, 19	Transitioning to Mode of Action Based Testing: The Critical Role of Frameworks for Human Relevance Analysis of Modes of Action	Meek	Bette	University of Ottawa	Ottawa	CANADA
N05	6, 13, 34	Aldosterone causes DNA damage in vitro and in kidneys of DOCA/salt rats, mediated by the mineralocorticoid receptor	Schupp	Nicole	University of Würzburg	Würzburg	GERMANY
N06	4, 6, 32	Methadone-induced respiratory depression in rats is related to mu-1 and delta-mediated increase in expiratory time	Chevillard	Lucie	INSERM	PARIS	FRANCE
N07	6, 26, 32	Increase in expiratory time is characteristic of the respiratory response in rat to toxic doses of methadone and fentanyl but not morphine and buprenorphine	Chevillard	Lucie	INSERM	PARIS	FRANCE
N08	6, 13, 44	Inhibition of male rat hepatic testosterone metabolism by modulation of androgenic signalling and castration	Freyberger	Alexius	Bayer Schering Pharma AG	Wuppertal	GERMANY
N09	4, 6, 36	Microcystin-LR, -LW and -LF induced murine neurite degeneration	Feurstein	Daniel	University of Konstanz	Konstanz	GERMANY

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N10	6, 18, 34	lin isolated rabbit renal proximal tubules:the beta lactam antibiotic cephaloridine does not inhibit the mitochondrial, uptake of succinate, a biomarker of its nephrotoxicity;a cellular metabolomic study with carbon13 NMR.	Martin	Guy	NSERM U820, Laennec Faculty of Medicine	Lyon	FRANCE
N11	4, 6, 29	The effect of HI-6 on cholinesterases and on the cholinergic system of the rat bladder	Soukup	Ondrej	University of Defense	Hradec Kralove	CZECH REPUBLIC
N12	4, 6, 39	Validation of tissue cross reactivity (TCR) studies: tissue cross reactivity of anti-human CD209 in cynomolgus tissues	Forster	Roy	CIT	Evreux	FRANCE
N13	5, 6,10	Eugenol and Isoeugenol as antiproliferative agents in skin cancer cells	Kalmes	Michaela	University Trier	Trier	GERMANY
N14	4, 6, 24	A polymorphism in the Ah-receptor gene is related to hypertension and endothelium-dependent vasodilation	Lind	Pia Monica	Karolinska Institutet	Stockholm	SWEDEN
N15	4, 6, 25	Dioxin-estrogen transcriptional interaction in lung cancer cell lines expressing different receptor phenotypes	Li	Lih-Ann	National Health Research Institutes	Zhunan, Miaoli	TAIWAN
N16	6, 28, 36	Effects of developmental exposure to different NDL-PCB congeners on cognitive and motor function. Possible underlying mechanisms. NDL-PCBs session	Felipo	Vicente	Centro de Investigacion Principe Felipe	Valencia	SPAIN
N17	4, 5, 6	Cytotoxicity of microcystins and nodularin	Ufelmann	Helena	University of Kaiserslautern	Kaiserslautern	GERMANY

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N18	6, 26, 32	A comparative study in mice of tolerance to morphine analgesic and respiratory effects	Mégarbane	Bruno	Hôpital Lariboisière, Université Paris-Diderot	Paris	FRANCE
N19	6, 7, 44	Chemical and enzymatic oxidation of 2-hydroxynevirapine, a metabolite of the HIV-1 reverse transcriptase inhibitor nevirapine	Marques	M. Matilde	□rojan□o Superior Técnico	Lisboa	PORTUGAL
N20	6, 8, 9	Protein adduct formation by the nevirapine metabolite, 12-hydroxynevirapine – a possible factor in nevirapine toxicity	Antunes	Alexandra M.M.	□rojan□o Superior Técnico	Lisboa	PORTUGAL
N21	6, 25, 28	Toxicological Profile of High Purity PCB 180 in Adult Rats	Viluksela	Matti	National Institute for Health and Welfare	Kuopio	FINLAND
N22	6, 25, 28	Effects of perinatal exposure to high purity PCB180 on rat offspring	Miettinen	Hanna M.	National Institute for Health and Welfare	Kuopio	FINLAND
N23	4, 6, 18	New toxicity mechanisms of toxins produced by cyanobacteria in water blooms: disruption of intercellular communication and modulation of estrogen receptor	Blaha	Ludek	Masaryk University	Brno	CZECH REPUBLIC
N24	6, 15, 18	Genetically engineered Clostridium botulinum C2 toxin as a molecular □rojan horse to deliver biomolecules into mammalian cells	Fahrer	Joerg	University of Ulm Medical Center	Ulm	GERMANY
N25	4, 5, 6	The cellular uptake of binary actin-ADP-ribosylating toxins from Clostridia depends on Cyclophilin A	Kaiser	Eva	Universitaets-Klinikum Ulm	Ulm	GERMANY
N26	5, 6, 25, 28, 37	TCDD Induces Dermal Accumulation of Keratinocyte-Derived Matrix Metalloproteinase-10 in an Organotypic Model of Human Skin	Allen-Hoffmann	Lynn	University of Wisconsin	Madison	UNITED STATES

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N27	6, 24, 26	The study of analgesic effect of hydroalcoholic extract of <i>Origanum vulgare</i> in rat by formalin test	Arzi	Ardeshir	Ahwaz Jondi-Shapour University of Medical Sciences	Ahvaz	IRAN
N28	4, 6, 11	Involvement of Caspase-8, -9, and -3 in high glucose-induced apoptosis in PC12 cells	Sharifi	Ali M	Iran University of Medical Sciences	Tehran	IRAN
N29	4, 6, 44	Effect of flavonoids on metabolism and excretion of PAHs in Caco-2 cell line	Bothe	Hanno	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY
N30	4, 6, 24	FOXO transcription factors and their role in overcoming doxorubicin-resistance of cancer cells	Chovolou	Yvonne	Institute of Toxicology	Düsseldorf	GERMANY
N31	6, 7, 15	Influence of dietary flavonoids NRF2-mediated gene expression	Rohrig	Ricarda	Heinrich-Heine-Universität Düsseldorf	Düsseldorf	GERMANY
N32	6, 7, 11	Marine natural compounds modulate intracellular signalling pathways, apoptosis and oxidative stress in mammalian cells	Wätjen	Wim	Heinrich-Heine-University	Düsseldorf	GERMANY
N33	4, 6, 32, 34	The molecular mechanism of dioxin-induced morphological abnormalities in mouse pup kidney	Nishimura	Noriko	National Institute for Environmental Studies	Tsukuba	JAPAN
D – Metabolism and Kinetics							23
D02	5, 26, 43, 44	Interactions of Olomoucine II with main drug-metabolizing enzymes of human liver microsomal fraction	Siller	Michal	Palacky University, Faculty of Medicine	Olomouc	CZECH REPUBLIC
D03	17, 44, 45	Reconstruction of NAT2 haplotypes in a Spanish cohort	Agundez	Jose A.G.	Medical School, University of Extremadura	Badajoz	SPAIN

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D04	18, 43, 44	The activity of fructose diphosphatase and acid-base status in rats exposed to fluoride and ammonium chloride	Khalili	Jafar	Institute of Stomatology, National Medical Academy of Postgraduate Education	Kiev	UKRAINE
D05	12, 29, 43, 44	Chloroacetanilide herbicides interact with human efflux transporters and modulate in vitro drug absorption	Oosterhuis	Berend	SOLVO Biotechnology	Budaors	HUNGARY
D06	17, 18, 43, 44	Semiquantitative analysis of N-acetyl p-benzoquinone imine peptide adducts by electrospray mass spectrometry	Laine	Jaana Elisa	University of Kuopio	KUOPIO	FINLAND
D07	4, 43, 44	In the rat, gamma-hydroxybutyrate is detoxified not only by hepatocytes but also by renal proximal tubules: A carbon 13 NMR study	El Hage	Maha	NSERM U820, Laennec Faculty of Medicine	Lyon Cedex 08	FRANCE
D08	9, 13, 43, 44	"Intracellular metabolism of 17 β -estradiol in cultured transgenic V79 cells: metabolite profile and impact on cellular stress response	Zettner	Markus	University of Würzburg	Würzburg	GERMANY
D09	17, 43, 44	Expression and variability of microsomal Epoxide hydrolase in human lung tissue	Bernauer	Ulrike	Federal Institute for Risk Assessment (BfR)	Berlin	GERMANY
D10	4, 43, 44	Hyponatremic effect caused by 3,4-methylenedioxymethamphetamine (ecstasy) in rats. The role of metabolic biactivation	Carmo	Helena	REQUIMTE. Faculty of Pharmacy, University of Porto	Porto	PORTUGAL
D11	4, 43, 44	Serum albumin, and not lipoprotein paraoxonase, is responsible of paraoxon detoxication at in vivo toxicological relevant conditions	Sogorb	Miguel A.	Universidad Miguel Hernández de Elche	Elche	SPAIN

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D12	4, 43, 44	Metabolism of M1 and M2 vinclozolin metabolites by rat liver microsomes	Sierra-Santoyo	Adolfo	Cinvestav-IPN	Mexico City	MEXICO
D13	17, 43, 44	Ellagic acid reduced nicotine induced withdrawal syndrome in mice	Pérez-Pastén	Ricardo	Escuela Nacional de Ciencias Biológicas - IPN	México, D.F.	MEXICO
D14	26, 43, 44	Sex-differences in the pharmacokinetics of 3,4-methylenedioxymethamphetamine (MDMA) and its metabolite 3,4-methylenedioxyamphetamine (MDA) in Sprague-Dawley rats	Fonsart	Julien	CNRS, UMR 7157	Paris	FRANCE
D15	15, 43, 44	Influence of nifedipine on cocaine elimination, after multiple administration in rats	Vitcheva	Vessela	Medical University, Faculty of Pharmacy	Sofia	BULGARIA
D16	15, 43, 44	Impact of chronic exposure with low dose of depleted uranium on rats treated with different acetaminophen doses	Grandcolas	Line	IRSN	Fontenay aux Roses	FRANCE
D17	26, 43, 44	Pharmacokinetics of M118, unfractionated heparin and enoxaparin sodium in normal and 5/6 nephrectomized uremic rats	Draganov	Dragomir	WIL Research Laboratories, LLC	Ashland, OH	UNITED STATES
D18	28, 43, 44	CYP1-mediated metabolism of dietary flavonoids enhances their toxicity in breast cancer cells	Androutsopoulos	Vasilis	University of Crete	Herakleion	GREECE
D19	22, 43, 44	Propofol and metabolites monitoring in serum of patients with induced sedation	Guedes de Pinho	Paula	Faculty of Pharmacy University of Porto	Porto	PORTUGAL
D20	28, 43, 44	Investigations on enhanced toxicity of methylated quercetin derivatives	Ruhl	Sven	Heinrich-Heine-Universität	Düsseldorf	GERMANY

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D21	17, 43, 44	Regulation of human GSTT1-1 by indole-3-carbinal and β -naphthoflavone	Thier	Ricarda	University of Queensland	St. Lucia	AUSTRALIA
D22	2, 12, 29, 43, 44	Interaction of ABC transporters with Environmental Toxicants	Oosterhuis	Berend	SOLVO Biotechnology	Budaörs	HUNGARY
D23	3, 5, 6, 43, 44	Circadian timing for cancer treatments	Lévi	Francis	INSERM, U776 Rythmes Biologiques et Cancers	Villejuif	FRANCE
D24	1, 4, 5, 43, 44	Biosimulation of Drug Metabolism - A Yeast Based Model	Ines	Pieper	Freiberg University of Mining and Technology	Freiberg	Germany
B - Oxidative Stress							40
B01	7, 8, 36, 5	TCA cycle may play an important role for protection against kainic acid-induced neurotoxicity in mice	Yamamoto	Hiro-aki	University of Tsukuba	Tsukuba	JAPAN
B02	7, 33, 25	Antioxidative stress of estradiol and α -lipoic acid in carbon tetrachloride-induced hepatotoxicity in rats	Hamzawy	Mohamed A.	Misr University for Science & Technology	6 th october, Cairo	EGYPT
B03	7, 44, 34	Effects of ischemia-reperfusion on rat renal tissue antioxidant systems and lipid peroxidation	Khoshabten	Ali	Chemical Injuries Research Center (CIRC)	Tehran	IRAN
B04	7, 33, 26, 39	Protective Effects of Myrrh (Commiphora molmol) Emulsion against Lead acetate-induced Hepato- and Immunotoxicity in Rabbits	Ashry	Khaled	Faculty of Veterinary Medicine, Alexandria University.	Rossetta	EGYPT
B05	7, 10, 25	Selenium and risk of bladder cancer: a meta-analysis of epidemiological studies	Amaral	Andre F. S.	CNIO - Spanish National Cancer Research Centre	Madrid	SPAIN
B06	7, 27, 10	Malondialdehyde (MDA) quantification in plasma of foundry workers: the oxidative stress perspective.	Peixe	Tiago	University of São Paulo	São Paulo	BRAZIL

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B07	7, 28, 25	Effect of long term feeding of T-2 toxin contaminated diet in young common carp (<i>Cyprinus carpio</i> L.)	Balogh	Krisztián	University of Kaposvár	Kaposvár	HUNGARY
B08	7, 1, 2	Intracellular glutathione level as indicator for cellular stress: method development	Schmalbach	Katja	University Würzburg	Würzburg	GERMANY
B09	7, 26, 36, 18	An Investigation of the Effects of Addictive Drugs on Oxidative Stress in Humans	Sayal	Ahmet	Gulhane Military Medical Academy	Ankara	TURKEY
B10	7, 44, 6, 5	Differences in metabolism and GSH conjugation of 2-methyl-1,4-naphthoquinone in vivo and in vitro suggest oversensitivity for oxidative stress-induced toxicity in vitro	Lutz	Ursula	University of Würzburg	Würzburg	GERMANY
B11	7, 6, 44	Two electron reduction of 2,3-dimethoxy-1,4-naphthoquinone metabolism in vivo prevents redox stress but interaction with the electron transport chain may be a mechanism of toxicity.	Gant	Timothy	Medical Research Council Toxicology Unit	Leicester	UNITED KINGDOM
B12	7, 8, 44	MDA and 8-OHdG in urine of elderly persons from two regions in Croatia with different diet habits	Peraica	Maja	Institute for Medical Research and Occupational Health	Zagreb	CROATIA
B14	7, 26, 34	Effects of oral N-acetyl cysteine on plasma oxidative stress biomarkers in End-Stage Renal Disease patients	Babaei	Fatemeh	Payamenoor University	Tehran	IRAN
B15	7, 27, 34	Renal effects of BDE-99 exposure and its relation to oxidative stress	Alonso	Virginia	School of Medicine	Reus	SPAIN
B16	7, 33, 25	Effects of BDE-99 exposure in liver antioxidant status	Linares	Victoria	School of Medicine	Reus	SPAIN

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B17	7, 6, 26	Oxidative Stress Induced Cytotoxicity Is Mediated by Beta Arrestins	Zeng	Xiaokun	Medstar Research Institute	Baltimore	UNITED STATES
B18	7, 10, 18	Acute toxicity of diepoxybutane to human mononuclear lymphocytes	Ponte	Filipa	Faculty of Pharmacy, University of Porto	Porto	PORTUGAL
B19	7, 26, 11	Lysine acetylalte elicits full survival of wistar rats exposed to lethal dose of paraquat	Carvalho	Félix	Faculty of Pharmacy, University of Porto	Porto	PORTUGAL
B20	7, 16, 1	Unbiased quantification of oxidative modifications of cysteine thiols by double labeling approach using isotope amino acids and affinity Tags	Adachi	Jun	Kyoto University	Kyoto	JAPAN
B21	7, 26, 40	Oxidative stress markers for monitoring secondary effects of rheumatoid arthritis treatments	Negrei	Carolina	Carol Davila University of Medicine and Pahrnacy	Bucharest	ROMANIA
B22	7, 32, 44	Effect of multiple treatment with alcohol on some liver antioxidant biochemical parameters in spontaneously hypertensive Rats (SHR) versus normotensive Rats (NTR)	Simeonova	Roumiana	Medical University	Sofia	BULGARIA
B23	7, 29, 27	The effect of diazinon on rat brain antioxidant system	Salehi	Maryam	Razavi Khorasan Payame Noor University	Mashhad	IRAN
B24	7, 26, 36	Protection by pentoxifylline of malathion-induced toxic stress and mitochondrial damage in rat brain	Ranjbar	Akram	Faculty of Pharmacy Tehran University of Medical Sciences	Tehran	IRAN

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B25	7, 36, 26	Involvement of reactive oxygen and nitrogen species on doxorubicin-induced toxicity to rat cortical neurons	Bastos	Maria de Lourdes	Faculty of Pharmacy, University of Porto	Porto	PORTUGAL
B26	7, 16, 44	Adrenaline and reactive oxygen species elicit proteome and energetic metabolism modifications in freshly isolated rat cardiomyocytes	Remião	Fernando	REQUIMTE - Faculty of Pharmacy of Univ of Porto	Porto	PORTUGAL
B27	7, 26, 23	Meta-syneprine induces oxidative stress in freshly isolated cardiomyocytes	Rossato	Luciana Graziotin	REQUIMTE, Faculty of Pharmacy, Porto University	Porto	PORTUGAL
B28	7, 37, 41	HuR and p38-MAP kinase control ultraviolet B-induced posttranscriptional regulation of cyclooxygenase-2 expression in HaCaT human keratinocytes	Fernau	Niklas S.	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY
B29	7, 23, 3	Assessment of protective ability of epicatechin conjugates against peroxidative insult	Ugartondo	Vanessa	Facultat de Farmàcia, Universitat de Barcelona	Barcelona	SPAIN
B30	7, 26, 17	Acute toxicity effect of paraoxon on kidney lipid peroxidation and antioxidant system	Abbasnezhad	Maryam	Payame Noor University	Tehran	IRAN
B31	7, 23, 27	Assessment of diazinone induced oxidative stress and pyridoxine protective effects on neuroglial U373MG cell line	Saberi	Mehdi	Baqiyatallah Medical Science University	Tehran	IRAN
B32	7, 18, 3	Evaluation of the correlations between Montgomery -Astberg Depression Rating Scale and redox stress markers	Purdel	Carmen	UMF Carol Davila	Bucharest	ROMANIA

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B33	7, 4, 32	Liquid chromatography with electrochemical detection as a tool for study of oxidative stress in organisms	Zitka	Ondrej	Mendel University of Agriculture and Forestry	Brno	CZECH REPUBLIC
B35	7, 29, 9, 39	Mitigation of ill-effects of Chemicals by Immunomodulatory Plant Extract	Singh	Shankarjit	Punjabi University	Patiala	INDIA
B34	7, 18, 26	On the prevention of cyclophosphamide-induced hemorrhagic cystitis and toxic stress by a potent natural antioxidant	Rezvanfar	Mohammad Amin	Tehran University of Medical Sciences, Faculty of Pharmacy	Tehran	IRAN
B36	7, 27, 33	Analysis of the therapeutic effect of GINKGO BILOBA on liver damage produced by carbon tetrachloride in adult male rats	Posadas del Rio	Francisco A.	Universidad Autónoma de Aguascalientes	Aguascalientes	MEXICO
B37	7, 26, 41	Effect of Setarud (IMODTM) as a new herbal drug on streptozotocine-induced diabetes	Sadeghi	Hooman	Tehran University of Medical Sciences, Faculty of Pharmacy	Tehran	IRAN
B38	7, 25, 26	Valorisation of an environmental plant used in Cameroon: The case of <i>Harungana madagascariensis</i>	Jeanne	Ngogang	University of Yaounde 1	Yaoundé	CAMEROON
B39	7, 36, 44	The effect of Wormwood (<i>Absinthium Artemisia L.</i>) extract on brain region antioxidant system after intoxication by lead	Kharoubi	Omar	University	Oran	ALGERIA
B40	7, 34, 32	Lipid peroxidation levels and antioxidant enzyme activities in hypertensive uremic patients undergoing hemodialysis	Palabiyik	Sezin	Atatürk University School of Medicine	Erzurum	TURKEY

A – Effects on DNA and Carcinogenesis

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A02	8, 10, 9, 27, 4	c-Fos/AP-1 dependent regulation of the three prime exonuclease 1 (TREX1) by genotoxic stress	Christmann	Markus	University Mainz	Mainz	GERMANY
A03	8, 10, 36, 7	Toxicological evaluation of smokeless tobacco: 14- and 28-day feeding studies	Theophilus	Eugenia	RJRT	Winston-Salem, NC	UNITED STATES
A04	8,10,13, 33	Estrogen receptor α , β and their variants may be responsible for estrogen implication in human liver carcinogenesis and tumor progression	Carruba	Giuseppe	Experimental Oncology, Dept of Oncology	Palermo	ITALY
A05	8, 10, 9, 41	DNA strand breaks detected by Comet assay in sputum leucocytes of workers exposed to fumes of bitumen: a pilot study	Marczynski	Boleslaw	Ruhr University Bochum	Bochum	GERMANY
A06	8, 10, 41, 40	Increased release of pro-inflammatory cytokines and activation of phosphoinositide-specific phospholipase c in human alveolar epithelial A549 cells treated with mineral fibres	Cardile	Venera	University of Catania	Catania	ITALY
A07	8, 10, 21, 44	Transgenic mice for human sulfotransferases with polymorphic SULT1A genes	Wend	Korinna	German Institute of Human Nutrition (DIfE)	Nuthetal	GERMANY
A08	8, 10, 9, 7, 15	Association of Manganese Superoxide Dismutase (MnSOD) Gene Polymorphism and Prostate Cancer Risk	Eken	Ayşe	Gulhane Military Medical Academy	Ankara	TURKEY
A09	8, 10, 9, 23,15	Glutathione Peroxidase 1 (GPX1) Genetic Polymorphism, Erythrocyte GPX Activity, and Prostate Cancer Risk	Aydin	Ahmet	Gulhane Military Medical Academy	Ankara	TURKEY
A10	8,10, 31,3	SERS technique and its applications for toxicological evaluations in experimental breast cancer	Ciurlea	Sorina Alexandra	University of Medicine And Pharmacy Victor Babes Timisoara, Romania	Timisoara	ROMANIA

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A11	8,10, 37, 38	Assessment of solar radiation-induced DNA damage and apoptosis in pig ear skin organ culture and reconstructed human epidermis	Bacqueville	Daniel	Pierre Fabre Dermo-Cosmétique	Castanet Tolosan Cedex	FRANCE
A12	8, 10, 7, 11	Asbestos exposure affects Poly(ADP-Ribose) polymerase-1 activity: role in the asbestos-induced carcinogenesis	Tomasetti	Marco	Polytechnic University of Marche	Ancona	ITALY
A13	8, 10, 25, 6, 4	Hexachlorobenzene induces c-Src-HER1-ERK 1/2 signaling pathway and stimulates migration in MDA-MB-231 breast cancer cell line.	Pontillo	Carolina	Facultad de Medicina, Universidad de Buenos Aires	Buenos Aires	ARGENTINA
A14	8, 10, 25, 7, 6	Organochlorine pesticide triggers stimulation on c-Src dependent HER1-ERK 1/2 signaling pathway in mammary gland and N-methyl-N-nitrosourea (NMU)-induced mammary tumors in rats	Peña	Delfina	Facultad de Medicina, Universidad de Buenos Aires	Buenos Aires	ARGENTINA
A15	8, 10, 30, 28, 11	Low levels of arsenic enhance the genotoxicity induced by ochratoxin A in human urothelial (5637) cells	Aggarwal	M.	FORIM GmbH	Mannheim	GERMANY
A16	8, 10, 9, 4	Transcriptome analysis of contact-inhibition	Dietrich	Cornelia	Universitätsmediz in Mainz	Mainz	GERMANY
A17	8, 10, 33, 23	The effects of curcumin as a chemoprotective agent against aflatoxin B1 induced toxicity in rats	Poapolathep	Amnart	Kasetsart University	Bangkok	THAILAND
A18	8, 10, 9, 7, 15	The role of CYP1A1 (Ile462Val) and CYP1B1 (Asn453Ser) polymorphisms on response to chemotherapy and survival in lung cancer patients	Ada	Ahmet Oguz	Ankara University, Faculty of Pharmacy	Ankara	TURKEY
A19	8, 10, 9, 15, 7	Genome-wide analysis of DNA methylation profiles in a preclinical animal model of non-genotoxic carcinogenesis	Moggs	Jonathan	Novartis	Basel	SWITZERLAND

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A20	8, 10, 18, 26, 15	BioMARKers and molecular tumour classification for non-genotoxic CARcinogenesis	Moggs	Jonathan	Novartis	Basel	SWITZERLAND
A21	8, 10, 25, 4, 27	Chemical fractions of natural organic matter in two water treatment plants of Tehran and DBPS formation potential	Zazouli	Mohammad Ali	University of Medical Sciences	Tehran	IRAN
A22	8, 10, 9, 25	Genotoxicity of atmospheric Polycyclic Aromatic hydrocarbons mixtures: from artificial to realistic mixtures	Tarantini	Adeline	CEA	Grenoble	FRANCE
A23	8, 10, 9, 15, 11	Modulation of hepatic gene expression and DNA methylation in furan treated Sprague-Dawley Rats	Chen	Tao	The University of Birmingham	Birmingham	UNITED KINGDOM
A24	8, 10, 9, 23, 44	Effects of non-dioxin-like PCBs (NDL-PCBs) on signaling pathways contributing to liver tumor promotion and carcinogenesis	Machala	Miroslav	Veterinary Research Institute	Brno	CZECH REPUBLIC
A25	8, 10, 27, 9, 36, 44	Mutagenic Toxicity of Acrylamide and Glycidamide in Germ Cells of Mice	Wang	Rui-Sheng	National Center for Toxicological Research/FDA	Jefferson, AR	JAPAN
A26	8, 10, 7, 40, 41, 30, 9	Investigations of the contribution of neutrophils to the genotoxicity of respirable quartz particles	Wessels	Anton	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY
A27	8, 10, 44, 23	No Association between N-acetyltransferase 2 (NAT2) and Risk of Diffuse Type of Gastric Cancer	Hosseini	Hedayatollah	Jondi Shapur University of Medical Science	Ahwaz	IRAN
A28	8, 10, 9, 7, 15	Role of S-adenosylmethionine as carcinogenic and/or co-carcinogenic factor in epigenetic silencing of tumour related genes in human lung	Hamed	Hend	Martin Luther university	Halle/ Saale	GERMANY
A29	8, 10, 18, 7, 17	Chemoprevention of DNA adducts from 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) by selected dietary constituents in rats as modulated by ethanol	Heppel	Christopher	Walther-Straub-Institut	Munich	GERMANY

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A30	8, 10, 26, 23, 32	Impact of acetyl salicylic acid(ASA) on PARP-1 expression and activity in A549 cells	Soliman	Khaled	Martin Luther University	Halle/Saale	GERMANY
A31	8, 10, 27, 23, 9	Human Relevance of Induction of Tunica Vaginalis Mesotheliomas in Rats by Acrylamide and Other Xenobiotics	Maronpot	Robert	EPL	Raleigh	UNITED STATES
A32	8, 10, 9, 27, 13	Determination of Possible Genotoxic Effects of Sub-acute Exposure to Bisphenol A and 4-tert-Octylphenol by Comet Assay in Rats	Ulutas	Onur Kenan	Gazi University Faculty of Pharmacy	Ankara	TURKEY
A33	8, 10, 9, 1	Micronucleus and Mutation Assessment by Flow Cytometry: Integration into Rodent Repeat-Dose Studies	Bemis	Jeffrey	Litron Laboratories	Rochester	UNITED KINGDOM
A34	8, 10, 26, 9, 5	Evaluation of genotoxicity effect of Lomex oral drop and crude extract of Satureja Hortensis in rat neonate cultured fibroblast by comet assay	Panahi	Marzieh	Jundishapour Ahwaz University	Ahwaz	IRAN
A35	8, 10, 30, 9, 25	The cytotoxicity and genotoxicity effect of cadmium on mice liver	Jafari sani	Moslem	Baqiyatallah Medical University	Tehran	IRAN
A36	8, 10, 23, 25	Evaluation of mutagenicity effect of Tarragon extract and Artemisia draconculus L by comet assay and comparison with sodium dichromate Cr(VI)	Kalantari	Heibatullah	Ahvaz Jondishapour University of Medical Sciences	Ahvaz	IRAN
A37	8, 10, 7, 25, 11	Changes in endothelial cell kinetics after short- term rat gavage exposure to riddeline – an hepatic endothelial carcinogen	Nyska	Abraham	RTC, Research Toxicology Centrea, Pathology, Pomezia Rome	Rome	ITALY
A38	8, 10, 25, 3	Dialy gavage with corn oil is a causative factor for proliferative lesions of the forestomach in B6C3F1 MICE	Plunkett	Laura	Integrative Biostrategies LLC	Houston, Texas	UNITED STATES

FREE COMMUNICATIONS

A39	8, 10, 9, 7	Genotoxic effects of cigarette smoke condensate on human lung cells	Böttcher	Kai	Martin-Luther-University	Halle	GERMANY
A40	3, 8, 28, 43	Impact of gender and age on ochratoxin in a toxicokinetic study in rat	Vettorazzi	Ariane	University of Navarra, Faculty of Pharmacy	Pamplona	SPAIN
J – Reproduction Toxicology							23
J01	26, 32, 35	Ultra Structural Study of Aminoglycosides (Gentamicin) and Fluoroquinolone (Ofloxacin) Antibiotics Effect on Testis Tissue in Rats: light and Transmission Electron Microscopic Study.	Khaki	Arash	Islamic Azad University Tabriz Branch	Tabriz	IRAN
J02	22, 35, 43	Exposure assessments in nonclinical reproductive toxicology studies using toxicokinetics, including a novel approach for monitoring pre-/postnatal study exposures	Grizzle	Thomas	Toxicology Services, Inc.	Chapel Hill North Carolina	UNITED STATES
J03	26, 35, 44	Teratogenic effects of metabolically activated Trimethadione in Zebrafish embryos (Danio rerio)	Weigt	Stefan	Merck KGaA	Darmstadt	GERMANY
J04	2, 5, 35	α -Mangostin: developmental toxicity in vitro and in screening tests	Edwards	James	DSM Nutritional Products Ltd	Basel	SWITZERLAND
J05	5, 35, 6	Evaluating the developmental neurotoxicity (DNT) potential of chemicals in an in vitro model based on human neurospheres.	Rockel	Thomas	Institut für umweltmedizinische Forschung	Duesseldorf	GERMANY
J06	1, 32, 35	Evaluation of the feasibility of juvenile toxicity study in the Göttingen Minipig	Chevalier	Guillaume	CIT	Evreux	FRANCE
J07	29, 36, 44	Methyl-parathion bioactivation in the male reproductive tract: from mRNA to protein expression of involved CYP isoforms.	Quintanilla-Vega	Betzabet	Cinvestav-IPN	México, DF	MEXICO

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J08	22, 32, 35	Adverse effect of heroin hydrochloride on selected male reproductive parameters in mice	Fazelipour	Simin	Faculty of Medicine, Islamic Azad University	Tehran	IRAN
J09	9, 26, 35	Genotoxicological, biochemical and histological evaluations for the tricyclic antidepressant: amitryptline on male albino mice.	Hassanane	Mohamed	National Research Center	Giza	EGYPT
J10	32, 35, 42	Histological study of the placenta of mice following phenol administration	Louei Monfared	Ali	University of Ilam	Tehran	IRAN
J11	9, 25, 35	Genotoxicity of Di(2-ethylhexyl) phthalate and mono(2- ethylhexyl) phthalate and prevention by selenium compounds in prostatic cell lines	Erkekoglu	Pinar	Hacettepe University	Ankara	TURKEY
J12	14,18, 35	Perinatal Aroclor 1254 exposure modulates polar and apolar retinoid levels in tissue and life-stage specific manners	Javier	Esteban	Universidad Miguel Hernández	Elche	SPAIN
J13	13, 27, 34	Evaluation of FSH, LH, total testosterone and PSA levels in highly Boron exposed workers in Turkey	Duydu	Yalçın	Ankara University, Faculty of Pharmacy	Ankara	TURKEY
J14	7, 32, 35	Developmental toxicity study of the pyridoindole SMe1EC2 in rats	Dubovicky	Michal	Institute of Experimental Pharmacology & Toxicology	Bratislava	SLOVAKIA
J15	27, 32, 35	Perinatal tissue distribution of perfluorooctane sulphonate (PFOS) in mice	Borg	Daniel	Karolinska Institutet	Stockholm	SWEDEN
J16	27, 35, 44	Evaluation of Spermatotoxicity of Halogenated Propanes by utilizing of Mitochondrial metabolism in Rat and Comparison with the other test methods	Ohtani	Katsumi	National Institute of Occupational Safety and Health	Kawasaki	JAPAN

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J17	13, 32, 35	Effects of Gestational and Lactational Exposure to Bisphenol A on Development and Reproduction in F1 rat Offspring	Kobayashi	Kenichi	National Institute of Occupational Safety and Health	Kawasaki	JAPAN
J18	15, 35, 36	Transcriptional response to neurotoxicants: Impact of gender, developmental stage and co-exposure on rat cerebellum and hippocampus gene expression following perinatal exposure.	Pelletier	Guillaume	Health Canada	Tunney's Pasture, Ottawa	CANADA
J19	13, 35, 42	Evaluation of ovarian histomorphological changes in experimental polycystic ovary induced by estradiol valerate in female rat	Rezvanfar	Mohammad Amin	Tehran University of Medical Sciences	Tehran	IRAN
J20	13, 35, 42	Histopathological study of reproductive tract of female wistar rat after long term estradiol valerate induced experimental PCO	Shojaei Saadi	Habib Allah	Tehran University of Medical Sciences	Tehran	IRAN
J21	29, 35, 42	Toxic impact of malathion on epididymal function	Jain	Nisha	Government PG College	Jaipur	INDIA
J22	15, 28, 35	Gene expression profiling in rat cerebellum and striatum following in utero and lactational exposure to non-dioxin-like polychlorinated biphenyls	De Boever	Patrick	Flemish Institute for Technological Research (VITO)	Geel	BELGIUM
J23	13, 35, 42	Estradiol valerate-induced atypical endometrial hyperplasia in experimental polycystic ovary	Shojaei Saadi	Habib Allah	Tehran University of Medical Sciences,	Tehran	IRAN
Y – Biomarker and Biomonitoring							37
Y01	18, 22, 8	Nucleoplasmic Bridge and Nuclear Bud are New Biomarkers for Biomonitoring of Genetic Damages Induced by Polycyclic Aromatic Hydrocarbons	Duan	Huawei	National Institute of Occupational Health and Poison Control	Beijing	CHINA

FREE COMMUNICATIONS

Y02	7, 18, 22	1,N2-Propanodeoxyguanosine Adducts of 4-Hydroxy-2-nonenals as Highly Specific Markers for Cancer Risk from Oxidative Stress and Lipid Peroxidation	Eder	Erwin	University of Würzburg	Würzburg	UNITED KINGDOM
Y03	18, 22, 10	MicroRNA Biomarkers for Carcinogen Exposure in Rodents	Chen	Tao	National Center for Toxicological Research, US FDA	Jefferson	UNITED STATES
Y04	18, 22, 28	Biomonitoring of Ochratoxin A and its metabolite Ochratoxin alpha in urine, plasma and human milk.	Munoz	Katherine	Leibniz-Institute für Arbeitsforschung an der TU Dortmund	Dortmund	GERMANY
Y05	18, 22, 27	Perfluorinated compounds (PFC) in human breast milk	Völkel	Wolfgang	LGL-Bayern	München	GERMANY
Y06	18, 22, 7	Contaminant Effects in Shore Crabs (<i>Carcinus maenas</i>) from Ria Formosa Lagoon	Maria	Vera	Algarve University	Faro	PORTUGAL
Y07	18, 22, 33	Assessment of candidate biomarkers of drug induced liver injury in preclinical toxicity studies	Adler	Melanie	University of Würzburg	Würzburg	GERMANY
Y08	18, 22, 34	Evaluation of urinary kidney biomarkers in rat models of acute and subchronic nephrotoxicity	Hoffmann	Dana	University of Wuerzburg	Wuerzburg	GERMANY
Y09	18, 22, 9	The Effects of Addictive Drugs on Micronucleus Frequency in Humans	Akay	Cemal	Gulhane Military Medical Academy	Ankara	TURKEY
Y10	18, 22, 9	Oral epithelium micronuclei as biomarker in human monitoring of urban air (ARAUO).	Rodrigues	Armindo	University of Azores	Ponta Delgada	PORTUGAL

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Y11	18, 22, 9	Genotoxic effects in Hospital Laboratory workers exposed to complex chemical mixtures	Cavallo	Delia	ISPESL-National Institute for Occupational Safety and Prevention	Monteporzio Catone	ITALY
Y12	18, 22, 30	Use of internal dose biomarkers for assessment of lead exposure and its correlations with genetic polymorphisms in children	Almeida	Glauce	Dental School of Ribeirão Preto, University of São Paulo	Ribeirão Preto	BRAZIL
Y13	18, 22, 25	Development of a Tiered Set of Modelling Tools for Derivation of Biomonitoring Guidance Values	Bartels	Michael	Dow Chemical	Midland	UNITED STATES
Y14	18, 22, 34	Development and Validation of a Multi-Analyte Profile (MAP) of Putative Biomarkers of Human Kidney Damage	Küsters	Sabine	Rules-Based Medicine, Inc.	Austin	GERMANY
Y15	18, 22, 34	Biomarkers of nephrotoxicity: advancing from animal studies to human clinical trials	Eisinger	Dominic	Rules-Based Medicine, Inc.	Lake Placid	UNITED STATES
Y16	18, 22, 30	Biomonitoring of metal contaminants in coastal zone of Ondo State, Nigeria: Fuzzy logic modelling approach.	Adebowale	Kayode	University of Ibadan	Ibadan, Nigeria	NIGERIA
Y17	18, 22, 32	Alterations of MMPs and TIMPs expression levels in an experimental rat model of resistive breathing	Noussia	Olga	University of Athens Medical School	Athens	GREECE
Y18	18, 22, 36	NMDA Receptor Antagonist Memantine Suppresses DFP-Induced Oxidative/Nitrosative Stress and Dendritic Damage in Rat Brain.	Gupta	Ramesh	Murray State University	Hopkinsville, KY	UNITED STATES
Y19	18, 22, 21	Cotinine biomarker of self reported smoking status among greek adolsecents: the HELENA study	Vardavas	Constantin e	University of Crete	Heraklion	GREECE

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Y20	18, 22, 29	Monitoring of the non specific metabolites of organophosphate N amniotic fluid of pregnant women in the region of crete	Tzatzarakis	Manolis	University of Crete	Heraklion	GREECE
Y21	2, 18, 22	The European IMI SAFE-T Consortium: Qualification of Translational Safety Biomarkers	Dieterle	Frank	Novartis	Basel	SWITZERLAND
Y22	18, 22, 32	Cardiac biomarker evaluation following Isoprenaline administration in the minipig	Gerhardy	Cécilia	MDS	L'Arbresle	FRANCE
Y23	18, 22, 10	Method for the determination of tobacco specific nitrosamine related DNA adducts as their pentafluorobenzoyl ester in pancreatic tissue of sudden death victims	Eggert	Heike	Walther-Straub-Institut	Munich	GERMANY
Y24	18, 22, 40	Active and passive smoking of the blood donor in relation to markers of inflammation in transfused blood	Symvoulakis	Emmanouil	University of Crete	Heraklion	GREECE
Y25	18, 22, 30	Mercury exposure and effects in 6 - 11 year old children living in the area of the former mercury mine in Slovenia	Tratnik	Janja	Jozef Stefan Institute	Ljubljana	SLOVENIA
Y26	18, 22, 9	Kinetics of benzo(a)pyrene and 3-hydroxybenzo(a)pyrene in relation to DNA adducts formation in rat tissues following intravenous administration of the parent compound	Marie	Caroline	Université de Montréal	Montréal (QC)	FRANCE
Y27	18, 22, 44	Estimation of indoleamine 2,3-dioxygenase activity as kynurenine to tryptophan ratio in turkish adolescence	Girgin	Gözde	Hacettepe University, Faculty of Pharmacy	Ankara	TURKEY
Y28	18, 22, 34	Analysis of renal biomarkers in samples of rat urine samples frozen for forty-four months from a study on Puromycin amino nucleoside (PAN)	Perron	Marie-France	MDS Pharma Services	L'Arbresle	FRANCE

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Y29	18, 22, 1	3-hydroxybenzo(a)pyrene as a new biomarker of exposure to carcinogenic polycyclic aromatic hydrocarbons	Barbeau	Damien	Université Joseph Fourier Faculté de médecine	La Tronche	FRANCE
Y30	18, 22, 30	Environmental exposure to arsenic of a French population	Fillol	Clémence	Institut de Veille Sanitaire	Saint Maurice	FRANCE
Y31	18, 22, 27	Polychlorinated dibenzo-p-dioxin (PCDD), polychlorinated dibenzofuran (PCDF) and PCB levels in human milk in Turkey	Çok	Ismet	Gazi University Faculty of Pharmacy	Ankara	TURKEY
Y32	18, 22, 30	Profiling of Stress Transcriptome of Selected Genes in Plants Treated with Heavy Metals	Huska	Dalibor	Mendel University of Agriculture and Forestry	Brno	CZECH REPUBLIC
Y33	18, 22, 1	Application of plant and earthworm bioassays to evaluate of toxicity effects of municipal sewage sludge	Sezimova	Hana	University of Ostrava	Ostrava	CZECH REPUBLIC
Y34	18, 22, 10	DNA methylation of GSTP1, a promising biomarker in early detection of prostate cancer	Dumache	Raluca	University of Medicine and Pharmacy " Victor Babes"	Timisoara	ROMANIA
Y35	18, 22, 34	Gentamycine-induced acute renal failure alterations on crucial serum cytokine levels and antioxidants status	Theocharis	Stamatios	University of Athens, Medical School	Athens	GREECE
Y36	18, 22, 29	Detection of non specific organophosphate pesticide metabolites in human hair samples	Tzatzarakis	Manolis	University of Crete	Heraklion	GREECE
Y37	18, 22, 28	Puerperium phase and aflatoxin M1 excretion in breast milk of selected mothers	Ortiz-Martinez	Raul	Universidad Autonoma de Aguascalientes	Aguascalientes, Ags.	MEXICO
T – Target Organ Toxicity							
T01	32, 29, 39	Effect of oral exposure to fenitrothion and 3-methyl-4-nitrophenol on immune function in Wistar rats	Li	Qing	Nippon Medical School	Tokyo	JAPAN

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T02	32, 36, 42	Light and electron microscopy study of the neuropathologic effect of different doses of acrylamide monomers on CNS of rat	Jamshidi	Keivan	Islamic Azad University	Garmsar-Semnan	IRAN
T03	32, 26, 40	The dynamics of gastrointestinal lesions induced by indomethacin (non-specific cyclooxygenase inhibitor): the interspecies comparison (laboratory rat, experimental pig)	Kvetina	Jaroslav	Institute of Experimental Biopharmaceutics&PRO.MED.CS Praha, co.	Hradec Kralove	CZECH REPUBLIC
T04	32, 33, 42	Involvement of cell proliferation and oxidative DNA damage in the process of hepatocellular hypertrophy induced by agricultural chemicals	Inoue	Kaoru	National Institute of Health Sciences	Tokyo	JAPAN
T05	32, 26, 33	Tamoxifen hepatotoxicity - interaction with resveratrol and deferiprone in rats	Cerna	Pavla	Charles University in Prague, Faculty of Medicine Pilsen	Pilsen	CZECH REPUBLIC
T06	32, 18, 33	Mycotoxin rubratoxin B causes fatty acid oxidation disorder (FAOD) like symptoms in mice	Nagashima	Hitoshi	National Food Research Institute, National Agriculture and Food Research Organization	Tsukuba	JAPAN
T07	32, 7, 8	Age Related Changes in the Activity of Selenoenzymes in Mice - Interaction with Chalcogen Metalloids Selenium and Tellurium	Hodková	Anna	Faculty of Medicine in Pilsen, Charles University in Prague	Pilsen	CZECH REPUBLIC
T08	32, 40, 42	The Golden Therapy for Alzheimer's Disease Targeting the Angiotensin-Converting Enzyme and the Cyclooxygenase- 2 Isoform.	El-Sayed	Nesrine	German University in Cairo	Cairo	EGYPT

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T09	32, 6, 36	Vincristine-induced neuropathy is mediated via NMDA-excitotoxicity and impairment of CGRP expression: Possible neuroprotective effect of Erythropoietin	Kassem	Lobna	Faculty of Medicine, Cairo University	Cairo	EGYPT
T10	32, 6, 11	Thymoquinone triggers anti-apoptotic signaling targeting death ligand and apoptotic regulators in a model of hepatic ischemia reperfusion injury	Heikal	Ola	German University in Cairo	New Cairo	EGYPT
T11	32, 26, 42	Anti-inflammatory, toxic effects, biochemical and pathological analysis in presence or lack of vitamins C and E, and cytotoxicity of n-hexane, methanolic and ethyl acetate extracts of Sambucus ebulus	Saeedi Saravi	Seyed Soheil	Mazandaran University of Medical Sciences, Faculty of Pharmacy; Young Researchers Club, Qaemshahr Islamic Azad University	Sari	IRAN
T12	32, 16, 42	ALTERATIONS OF LIVER FAK AND SRC LEVELS IN THE ANIMAL MODEL OF THIOACETAMIDE-INDUCED FULMINANT HEPATIC FAILURE AND ENCEPHALOPATHY	Toumpanakis	Dimitrios	University of Athens, Medical School	Athens	GREECE
T13	32, 26, 42	Effect of repeated anabolic dose of B2 adrenergic agonists on liver histology and blood chemistry parameters in adult mice	Pleadin	Jelka	Croatian Veterinary Institute	Zagreb	CROATIA

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T14	32, 36, 42	Evaluation of Impaired Neuronal Cell Development-Availability of Reelin Immunolocalization Analysis and Monitoring of Neuron Distribution in the Hippocampal Dentate Gyrus	Saegusa	Yukie	Gifu University	Gifu	JAPAN
T15	32, 8, 41	Alteration of cellular proteins under the effect of inflammatory mediators and anti- inflammatory drug in normal human lung cell cultures	Gherbal	Rabiaa	Martin Luther University	Halle/Saale	GERMANY
T16	32, 5, 41	"Mechanisms of innate immunity involvement in airway disease exacerbations: Experiments with in vitro models of human airway epithelial cells (EpiAirway™) and epithelial cell/fibroblast co-cultures (EpiAirway-FT™)."	Hayden	Patrick	MatTek Corporation	Ashland	UNITED STATES
T17	32, 26, 42	Impact of caffeic acid phenethyl ester (CAPE) on amiodarone-induced pulmonary fibrosis in rat	Hemmati	Ali Asghar	Jundishapur University of Medicine Science	Ahwaz	IRAN
T18	32, 18, 42	Hyperoxia induced protection against rat's renal ischemic damage: relation to oxygen exposure time	Wahhabagh ai	Hannaneh	Tehran University of Medical Sciences	Tehran	IRAN
T19	31, 32, 39	Immunotoxicology of very small molecules: nanomedicines and nanomaterials	Descotes	Jacques	Centre Antipoison	LYON Cedex 3	FRANCE
T20	32, 37, 41	Assessment of the potency of contact allergens by using IL-8 release and p38 MAPK activation in THP-1 cells	Mitjans	Montserrat	Universitat de Barcelona	Barcelona	SPAIN
T21	32, 39 , 41	Signal transduction induced by small chemicals in human dendritic cells.	Kerdine-Römer	Saadia	Faculté de Pharmacie-INSERM UMR-S 749	Châtenay-Malabry	FRANCE

FREE COMMUNICATIONS

T22	32, 39, 44	The role of metabolism in T-cell mediated drug hypersensitivity reactions	Naisbitt	Dean	The University of Liverpool	Liverpool	UNITED KINGDOM
T23	32, 11, 41	Nitrogen Mustard (Melphalan) exposure of an in vitro coculture model in the human proximal respiratory system	Pohl	Christine	Johannes Gutenberg University	Mainz	GERMANY
T24	30, 32, 39	Metal-Induced Autoimmunity	Monestier	Marc	Temple University School of Medicine	Philadelphia PA	UNITED STATES
T25	32, 24, 31	Nanobodies against Aahl scorpion toxin	BEN ABDERRAZEK	Rahma	Pasteur Institute of Tunis	Tunis	TUNISIA
T26	13, 32, 44	Hepatic effects of a highly purified PCB 180 in adult Sprague-Dawley rats	Schrenk	Dieter	University of Kaiserslautern	Kaiserslautern	GERMANY
I – Inflammation and Cytokines							20
I01	40, 41, 6	Effects of silymarin on the spontaneous proliferation and Cell cycle of human peripheral blood leukemia T cells	Amirghofran	Zahra	Shiraz University of Medical Sciences	Shiraz	IRAN
I02	40, 41, 24	The effects of Amiodarone on the alveolar cells of rabbit lung	Mehraein	Fereshteh	Iran University of Medical Sciences	Tehran	IRAN
I03	40, 41, 39	Paraquat and temperature affect nonspecific immune response of neotropical freshwater fish <i>Colossoma macropomum</i>	Salazar-Lugo	Raquel	Universidad de Oriente	Cumana	VENEZUELA
I04	39, 40, 41	Effect of dietary contaminants on in vitro cytokine release does not reflect in- vivo based classification of immunotoxicity	Stølevik	Solvor Berntsen	Norwegian Institute of Public Health	Oslo	NORWAY
I05	40, 41, 39	In-vivo and in-vitro study of the immunomodulatory activities of different extracts from <i>Paronychia argentea</i> L plant.	Zama-Atrouz	Djamila	Faculty of SNV University Mentouri Constantine	Constantine	ALGERIA

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I06	40, 41, 37	Investigation of the sensitising potential of textile dyes using a biphasic protocol of the local lymph node assay	Ahuja	Varun	Institute of Clinical Pharmacology and Toxicology	Berlin	GERMANY
I07	40, 41, 39	Effect of Cyclosporine and hexachlorobenzene on KLH TDAR correlate with lymphocyte subset analysis and lymphoid tissue histology in rats	Ancian	Philippe	CIT	Evreux	FRANCE
I08	40, 41, 5	In vitro hydroquinone exposure alters inflammatory properties in endothelial cells	Farsky	Sandra	University of São Paulo	São Paulo	BRAZIL
I09	40, 41, 5	In vivo hydroquinone (HQ) exposure impairs macrophage function and lung allergic inflammation	Bichels Hebeda	Cristina	University of São Paulo	São Paulo	BRAZIL
I10	40, 41, 37	Risk of repeated inhalation exposure to the contact allergen dinitrochlorobenzene (DNCB) in rats	van Triel	Jos J.	TNO Quality of Life	Zeist	NETHERLANDS
I11	40, 41, 24	Sertoli cells (Ser W3) are affected by linezolid at therapeutically relevant concentrations	Foest	Agnes	Charité - Campus Benjamin Franklin	Berlin	GERMANY
I12	40, 41, 39	IL-8 release and p38 MAPK activation: potential tools to classify chemical allergens?	Mitjans	Montserrat	Universitat de Barcelona	Barcelona	SPAIN
I13	40, 41, 32	Precision cut lung slices (PCLS) as a tool to predict effective LPS concentrations for in vivo use in common marmoset monkeys	Seehase	Sophie	German Primate Center	Göttingen	GERMANY
I14	40, 41, 39	Thymus histological study in Zn-supplemented mice	Saldívar	Liliana	UNAM	Mexico	MEXICO

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I15	40, 41, 39	Improvement of inflammatory and toxic stress biomarkers by silymarin in a murine model of type one diabetes mellitus	Malihi	Farshad	Tehran Univesity	Tehran	IRAN
I16	40, 41, 25	Urban aerosol directly stimulates antigen presentation cells in-vitro and cause airway inflammation in-vivo	Yoshida	Tokuyuki	National Institute of Biomedical Innovation	Ibaraki city	JAPAN
I17	40, 41, 23	Respiratory toxicology and immunotoxicology in human precision cut lung slices (PCLS)	Sewald	Katherina	Fraunhofer ITEM	Hannover	GERMANY
I18	40, 41, 30	Effects of sub-chronic exposure to Iridium on cytokines in female Wistar rats	Iavicoli	Ivo	Catholic University of Sacred Heart	Rome	ITALY
I19	26, 40, 41	Skin Sensitization to p-phenylenediamine: The role of exposure time and dose for the elicitation response in allergic patients	Goebel	Carsten	The Procter & Gamble Service GmbH	Darmstadt	GERMANY
I20	40, 41, 1	Evaluation of alternative endpoints for non-radioactive local lymph node assay by using two strong sensitizers	Ulker	Ozge Cemiloglu	Ankara University Faculty of Pharmacy	Ankara	TURKEY
L – Toxicology of Nanomaterials							30
L01	31, 28, 23	Zebrafish as a toxicogenomic model system for testing the safety of new food ingredients	Rainieri	Sandra	AZTI-Tecnalia	Derio	SPAIN
L02	31, 19, 23	Nanotechnology - opportunities and risks from the statutory accident insurance point of view	Beth-Hübner	Maren	BG Chemie	Heidelberg	GERMANY
L03	31, 15, 4	Comprehensive gene expression in rat lung after inhalation exposure to C60 fullerene particles	Fujita	Katsuhide	National Institute of Advanced Industrial Science and Technology	Tsukuba	JAPAN

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L04	31, 40, 32	Comparative Pulmonary Toxicity Study of Different Size of Crystalline Silica in Rats: Micron vs. Nano-size	Naya	Masato	Natl. Inst. Advanced Ind. Sci. Tech.	Tsukuba	JAPAN
L05	31, 5, 37	In vitro nanotoxicologic studies of silica-nanoparticles using dermal cell lines	Yoshikawa	Tomoaki	Osaka University	Suita	JAPAN
L06	31, 2, 23	NanoTEST: Nanoparticle Effects on Placental Function using In Vitro Toxicology	Cartwright	Laura	University Hospitals Bristol NHS Foundation Trust	Bristol	UNITED KINGDOM
L07	31, 9, 8	Evaluation of in vitro genotoxicity of magnetite nanoparticles	Gomaa	Iman	German University in Cairo	New Cairo	EGYPT
L08	31, 5, 40	The toxic effect of monodisperse amorphous silica particles studied on an in-vitro model of the human air-blood barrier	Kasper	Jennifer	Johannes Gutenberg-University	Mainz	GERMANY
L09	31, 6, 7	Ag and TiO ₂ nanoparticles induce oxidative stress in A549 cells	Astrup	Herman	University of Aarhus	Aarhus	DENMARK
L10	31, 5, 6	In-vitro toxicity of functionalized MWCNTs and Fullerenes on six mammalian cell lines: selection and optimization of the proper method to reduce physical-chemical interferences.	Bonafè	Roberta	Bracco Imaging SpA	Colleretto Giacosa	ITALY
L11	31, 43, 33	Evaluation of size-dependent acute toxicity and toxicokinetics of amorphous nanosilicas	Nabeshi	Hiroshi	National Institute of Biomedical Innovation	Ibaraki	JAPAN
L12	31, 40, 9	Nano- and Microscaled Titanium Dioxide: Comparative Study on the Inflammatory and Genotoxic Effects after a 3-Week Inhalation in Rats	Creutzenberg	Otto	Fraunhofer ITEM	Hannover	GERMANY

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L13	31, 40, 41	Nanosilicas with different sizes and surface charges induce different profiles of cytokine production on macrophages	Yoshioka	Yasuo	Osaka University	Osaka	JAPAN
L14	31, 9, 5	Evaluation of size-dependent intracellular distribution and genotoxicity of amorphous nanosilicas in human keratinocytes	Matsuyama	Keigo	National Institute of Biomedical Innovation	Ibaraki	JAPAN
L15	31, 43, 33	Differential acute toxicity and toxicokinetics of amorphous nanosilicas: The role of surface physicochemical properties.	Nakazato	Yasutaro	Osaka University	Suita	JAPAN
L16	31, 5, 1	The degree of functionalization affects in vitro cytotoxicity of multi-walled carbon nanotubes (CNTs)	Coccini	Teresa	IRCCS Salvatore Maugeri Foundation	Pavia	ITALY
L17	31, 33, 32	Hepatotoxicity of silica nanoparticles in mice	Yagi	Kiyohito	Osaka University	Suita	JAPAN
L18	31, 30, 36	Adverse effects of nanoparticulate metal oxides in neuronal cells in vitro characterized by means of X-ray fluorescence and FTIR microspectroscopy	Kretlow	Ariane	Federal Institute for Risk Assessment	Berlin	GERMANY
L19	31, 10, 4	Ultrafine but not fine carbon particles cause loss of gap junctional intercellular communication in rat lung epithelial cells	Ale-Agha	Niloofer	Institut fuer umweltmedizinische Forschung an der Heinrich-Heine-Universität Duesseldorf	Duesseldorf	GERMANY
L20	31, 5, 1	Development and assessment of nanoparticle suspensions as fundament for toxicological analysis	Meißner	Tobias	Fraunhofer IKTS	Dresden	GERMANY

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L21	31, 25, 30	Tungsten carbide and tungsten carbide cobalt nanoparticle toxicity: the role of cellular particle uptake, leached ions and cobalt bioavailability.	Busch	Wibke	UFZ-Helmholtz Centre for Environmental Research	Leipzig	GERMANY
L22	31, 28, 8	Oxidative DNA damage by nanoparticles in human intestinal Caco-2 cells in the presence or absence of neutrophils	Gerloff	Kirsten	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY
L23	31, 40, 30	Lung injury study by 15 day inhalation exposure of Titanium Dioxide nanoparticles in Rats	Lee	Kyuhong	Korea Institute of Toxicology	Jeong-up	KOREA
L24	31, 9, 32	Cytotoxic and genotoxic effects of Multi-walled Carbon Nanotubes on human bronchial normal cells (BEAS-2B)	Fanizza	Carla	ISPESL	Rome	ITALY
L25	31, 15, 39	Impact of engineered nanoparticles on immune-related genes and processes in human alveolar epithelial cells	Nelissen	Inge	Flemish Institute for Technological Research (VITO NV)	Mol	BELGIUM
L26	31, 39, 40	Carbon nanoparticles do not aggravate respiratory allergy induced by TMA in rats	Staal	Yvonne	TNO Quality of Life	Zeist	NETHERLANDS
L27	31, 30, 32	Subacute oral toxicity study of Zinc oxide nanopowder	Che	Jeong-Hwan	Seoul National University Hospital	Seoul	KOREA
L28	31, 9, 5	Evaluation of in-vitro Genotoxicity of Magnetite Nanoparticles	Gomaa	Iman	The German University in Egypt, Faculty of Pharmacy and Biotechnology	Cairo	EGYPT
L29	31, 40, 6	The compatible solute ectoine protects against nanoparticle-induced neutrophilic lung inflammation	Sydlik	Ulrich	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY

FREE COMMUNICATIONS

L30	31, 4, 6	Changes of lipid raft membrane composition as early events in nanoparticle-induced signaling	Peuschel	Henrike	Institut für umweltmedizinische Forschung	Düsseldorf	GERMANY
E – Environmental Toxicology							57
E01	25, 32, 42	Influence of sex on subchronic toxicity of <i>Erythrophleum suaveolens</i> plant extracts in rabbits	Abia	Wilfred	University of Yaounde I	Yaounde	CAMEROON
E02	25, 22, 28	Effect of worn water on some physiological and biochemical parameters of bread wheat (<i>Triticum durum</i> Desf.) in the region of Guelma (the Algerian East)	Fatiha	Bekhouche	Université Badji Mokhtar Annaba Algérie	Annaba	ALGERIA
E03	25, 28, 29	Biodegradation capability of some species of fungi isolated from contaminated soils towards herbicides	Ouahiba	Bordjiba	Universté Joseph Fourier Faculté de Médecine-Pharmacie-Grenoble	Grenoble	ALGERIA
E04	25, 8, 23	Increased genetic damage caused due to mobile phone usage: micronucleus assay	Kumar	MANOJ	Kurukshetra University	Kurukshetra	INDIA
E05	25, 8, 9	Association of genetic polymorphisms, mRNA expression of p53 and p21 with chronic benzene poisoning in a Chinese Occupational population	Sun	Pin	Fudan University	Shanghai	CHINA
E06	25, 20, 22	An assessment of PAHs contamination of the Svitava and Svratka rivers, Czech Republic	Blahova	Jana	University of Veterinary and Pharmaceutical Sciences	Brno	CZECH REPUBLIC
E07	25, 28, 30	Mercury and methylmercury content in muscle of chub and in sediment from the Svitava and Svratka Rivers	Krucíková	Kamila	University of Veterinary and Pharmceutical sciences	Brno	CZECH REPUBLIC

FREE COMMUNICATIONS

E08	25, 28, 42	Histological analysis of gills, liver and kidney of neotropical freshwater fish <i>Colossoma macropomum</i> exposed to three temperatures	Salazar-Lugo	Raquel	Universidad de Oriente	Cumaná	VENEZUELA
E09	25, 22, 23	Acute toxicity of nitrite and its effects on some biochemical parameters of sturgeons	Machova	Jana	University of South Bohemia Ceske Budejovice	Vodnany	CZECH REPUBLIC
E10	25, 22, 28	Study of nitrite influence on Eurasian perch (<i>Perca fluviatilis</i>) and largemouth bass (<i>Micropterus salmoides</i>)	Kroupova	Hana	University of South Bohemia in Ceske Budejovice	Vodnany	CZECH REPUBLIC
E11	25, 23, 26	Models for extrapolation of long-term effects of pharmaceuticals in the environment using therapeutic information	Altenburger	Rolf	UFZ Helmholtz Centre for Environmental Research	Leipzig	GERMANY
E12	25, 23, 27	Effect of substituents on the ecotoxicity of anilines and phenols	Aruoja	Villem	National Institute of Chemical Physics and Biophysics	Tallinn	ESTONIA
E13	25, 22, 28	Effect of hyperthermia on plasma lipids and gene expression in Atlantic Cod. (<i>Gadus Morhua</i> L.)	Aursnes	Ingrid A. S.	University of Oslo	Oslo	NORWAY
E14	25, 18, 23	Assessment of POPs contamination of the Svitava and Svratka rivers using selected biochemical markers"	Kovarova	Jana	University of Veterinary and Pharmaceutical Sciences Brno	Brno	CZECH REPUBLIC
E15	25, 28, 30	Mixed contamination-induced metallothionein response in the <i>Carassius carassius</i> from the Upper Dnister River Basin, Ukraine	Stoliar	Oksana	Ternopil National Pedagogical University	Ternopil	UKRAINE
E16	25, 22, 23	Monitoring of stream waters and sediments before and after settlement in city of Zagreb	Cvetkovic	Bruno	Institute of Public Health "Dr. Andrija Stampar"	Zagreb	CROATIA

FREE COMMUNICATIONS

E17	25, 18, 32	Assessment of Polychlorinated Biphenyls: prospects for a global approach	Rotondo	Francesca	University of Modena and Reggio Emilia	Reggio Emilia	ITALY
E18	25, 9, 16	Pig as a model organism for toxicoproteomic studies on bladder cancer	Verma	Nisha	Universitätsklinikum Essen	Essen	GERMANY
E19	25, 13, 18	Identification of molecular biomarkers for endocrine disrupting compounds in <i>Chironomus riparius</i> (Diptera), a model species in aquatic ecotoxicology	Morcillo	Gloria	UNED	Madrid	SPAIN
E20	25, 23, 42	Histopathological changes in the gills of freshwater fish, <i>Oreochromis niloticus</i> (L.) Juveniles exposed to <i>Moringa oleifera</i> (Lam.) fresh root- bark extract	Adesina	Babatunde Taiwo	Osun State University	Osogbo	NIGERIA
E21	25, 5, 12	ATHON: Studying toxicity and transport of highly purified NDL-PCBs in a refined in vitro model of the human placental barrier	Correia Carreira	Sara	Bristol Haematology and Oncology Centre	Bristol	UNITED KINGDOM
E22	25, 23, 28	The effect of different substances on <i>Danio rerio</i> and <i>Poecilia reticulata</i>	Dolecelová	Petra	University of Veterinary and Pharmaceutical Sciences	Brno	CZECH REPUBLIC
E23	25, 19, 28	Comparison of the sensitivity of embryonic and juvenile developmental stages of <i>Danio rerio</i> to chemical substances	Máková	Stanislava	University of Veterinary and Pharmaceutical Sciences, Brno	Brno	CZECH REPUBLIC
E24	25, 7, 30	Toxic effect of heavy metals (Chromium and Cadmium) combined to marine toxin (Okadaic Acid) on Caco2 cells	Ghada	Souid	Faculty of Pharmacy	Monastir	TUNISIA

FREE COMMUNICATIONS

E25	25, 11, 30	Bioavailability of heavy metals and apoptotic effects on the midgut cells of <i>Pseudaletia unipuncta</i> (Lepidoptera: Noctuidae) inhabiting volcanic environments	Ventura Garcia	Patrícia	University of Azores	Ponta Delgada	PORTUGAL
E26	25, 10, 18	Role of PAHs metabolizing enzymes polymorphisms in urinary 1-OHP levels in children	Sánchez-Guerra	Marco	CINVESTAV-IPN	México, DF	MEXICO
E27	25, 33, 42	Hepatic effects of a highly purified PCB 180 in adult Sprague-Dawley rats	Roos	Robert	University of Kaiserslautern	Kaiserslautern	GERMANY
E28	25, 2, 44	Xenobiotic metabolism of bank vole (<i>Myodes glareolus</i>) exposed to PCDDs	Murtomaa	Mari	University of Oulu	Oulu	FINLAND
E29	25, 27, 32	The role of AhR in doxin-induced modulation of bone microarchitecture and mechanical strength	Herlin	Maria	Karolinska Institutet	Stockholm	SWEDEN
E30	25, 2, 23	The noxological value of the environment in high schools	Savicheva	Natalya	FMBA	Moscow	RUSSIAN FEDERATION
E31	25, 31, 32	Assessment of the lung deposition of particulates originating from diesel engines	Oravisjärvi	Kati	University of Oulu	Oulu	FINLAND
E32	25, 32, 35	Identification and toxicological evaluation of musk fragrances and thiophenes in extracts of river sediment samples	Vykopalova	Lenka	Veterinary Research Institute	Brno	CZECH REPUBLIC
E33	25, 2, 23	Reverse osmosis in groundwater treatment for drinking water in southern Iran	Yousefi	Zabihollah	Mazandaran University of Medical Sciences	Sari	IRAN
E34	25, 23, 27	Quantitative characterization of changes in bone geometry, density and biomechanical properties in two rat strains with different Ah-receptor structure following long-term exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin.	Håkansson	Helen	Karolinska Institutet	Stockholm	SWEDEN

FREE COMMUNICATIONS

E35	25, 23, 24	Monitoring of coliform indicator removal in educational hospitals wastewater treatment plants in Sari City	Mohseni-Bandpei	Anoushirvan	Mazandaran University of Medical Sciences	Sari	IRAN
E36	25, 30, 22	Effects of silver ions in aquatic and terrestrial organisms	Peckova	Lucie	University of Veterinary and Pharmaceutical Sciences	Brno	CZECH REPUBLIC
E37	25, 30, 22	Determination of metallothionein in various tissues of Danio rerio exposed to cisplatin	Soukupova	Ivana	University of Veterinary and Pharmaceutical Sciences	Brno	CZECH REPUBLIC
E38	25, 30, 22	Ecotoxicological assessment of sediment extracts from small watercourses in suburban areas	Beklová	Miroslava	University of Veterinary and Pharmaceutical Sciences	Brno	CZECH REPUBLIC
E39	25, 45, 5	Tire particles induce lung toxicity in mice	Mantecca	Paride	University of Milano Bicocca	Milan	ITALY
E40	25, 45, 5	Toxicity of indoor moulds	Pieckova	Elena	Slovak Medical University	Bratislava	SLOVAKIA
E41	25, 29, 23	Preferential Partition - Understanding bioaccumulation and ecotoxicology in soils	Langenbach	Tomaz	Instituto de Microbiologia - UFRJ	Rio de Janeiro	BRAZIL
E42	25, 30, 28	Heavy metals (Zn, Pb, Cd and Cr) in water, sediments and most consumed fishes sampled from Gorgan Coast (Iran)	Saeedi Saravi	Seyed Sobhan	Mazandaran University of Medical Sciences, Faculty of Pharmacy	Sari	IRAN
E43	25, 29, 23	Herbicide distribution in soils of a riparian forest and neighboring sugar cane field	Bicalho	Simone	Instituto de Microbiologia - UFRJ	Rio de Janeiro	BRAZIL

FREE COMMUNICATIONS

E44	25, 30, 28	Studies of Pre or post supplementation of <i>Mentha piperita</i> leaves extract on arsenic induced hepatic injuries in mice	Sharma	Ambika	Zoology Department, University of Rajasthan, Jaipur	Jaipur	INDIA
E45	25, 9, 23	Polycyclic aromatic hydrocarbons in consumer products — Metabolism and toxicity in human skin	Stolpmann	Kristin	Federal Institute for Risk Assessment (BfR)	Berlin	GERMANY
E46	25, 45, 19	A Suggestion of "Healthy School" with low volatile organic compounds (VOCs)	Hanazato	Masamich	Chiba University	Kashiwa	JAPAN
E47	25, 26, 22	Transport of sulfadiazine and sulfamethoxazole in homogenous soil column systems	Cengiz	Murat	Faculty of Veterinary Medicine	Bursa	TURKEY
E48	25, 22, 27	Comparison of the blood levels of PCBs between fetuses and infants with longer lactational period in Japan	Mori	Chisato	Chiba University	Chiba	JAPAN
E49	25, 27, 45	Evaluation of Indoor Air Quality by Odor Units (Odor Threshold Ratio)	Seto	Hiroshi	Tokyo Kenbikyo-in Foundation	Tachikawa	JAPAN
E50	25, 45, 19	Necessity of the idea of "Environmental Universal Design" to protect health of future generations"	Todaka	Emiko	Chiba University	Kashiwa	JAPAN
E51	25, 1, 44	The fish embryo test as an alternative to acute fish toxicity testing: Optimisation for difficult compounds and role of metabolic activation	Scholz	Stefan	Helmholtz Centre for Environmental Research - UFZ	Leipzig	GERMANY
E52	25, 45, 23	Physio-chemical analysis of airborne tire wear particles	Panko	Julie	ChemRisk	Pittsburgh, PA	UNITED STATES
E53	25, 7, 22	Differential responses of antioxidative systems and photosynthetic pigments in the leaves of <i>Quercus vulcanica</i> under drought stress condition	Özden	Hakan	Istanbul University Science Faculty	Istanbul	TURKEY

FREE COMMUNICATIONS

E54	25, 27, 23	Effect of assimilable substrate and plant density on removal of Phenol from water by Lemna minor	Dianafi Tilaki	Ramazani	Mazandaran University of Medical Sciences	Sari	IRAN
E55	25, 7, 33	Protective role of zinc in ameliorating the arsenic-induced oxidative stress and histological changes in rat liver	Kumar	Ashok	Panjab University	Chandigarh	INDIA
E56	25, 29, 22	Comparison of the organochlorine pesticide residue levels among Benni fish of Shadegan, Mahshahr and Susangerd cities, Khuzestan province, Iran	Arzi	Laleh	University of Tehran	Tehran	IRAN
E57	25, 24, 33	Dog poisonings caused by Nodularia spumigena	Krüger	Thomas	Friedrich-Schiller-University	Jena	GERMANY
Z – Pesticide Toxicology							33
Z01	29, 1, 22	A new principle of pesticides bioidentification in fresh water	Tonkoppil	Valerii	Institute of Limnology	St.Petersburg	RUSSIAN FEDERATION
Z02	29, 8, 22	Organochlorine pesticides mixture exposure □nguilla□m and DNA damage in mother-child pairs in agricultural community in San Luis Potosi, Mexico	Alvarado	Diana	UASLP	San Luis Potosi	MEXICO
Z03	7, 29, 32	Effects of methiocarb on lipid peroxidation in rat tissues	Özden	Sibel	Faculty of Pharmacy	Istanbul	TURKEY
Z04	29, 42, 25	Effects of subchronic terbutryn exposure on some biochemical, haematological and histopatological parameters of the common carp (Cyprinus carpio L).	Velisek	Josef	University of South Bohemia Ceske Budejovice	Vodnany	CZECH REPUBLIC
Z05	29, 25, 36	The effects of organophosphate exposure on Seratonegic system	Ramadan	Shadia	Newcastle University	Newcastle	LIBYAN ARAB JAMABIRIYA

FREE COMMUNICATIONS

Z06	29, 26, 24	Small quaternary AChE inhibitors – implication for \square nguilla \square ment of OP poisoning or MG treatment	Musilek	Kamil	Faculty of Science, , University of Jan Evangelista Purkyne	Usti nad Labem	CZECH REPUBLIC
Z07	1, 29, 28	Retrospective evaluation of Acute Reference Doses (ArfD) for pesticides in the European Union	Moeller	Tomas	Federal Institute for Risk Assessment	Berlin	GERMANY
Z08	29, 25, 18	Subchronic exposure of the common carp (Cyprinus carpio) to four herbicide formulations: Effect on the haematological indice	Haluzova	Ivana	University of Veterinary and Pharmaceutical Sciences Brno, Faculty of Veterinary Hygiene and Ecology	Brno	CZECH REPUBLIC
Z09	29, 4, 5	Detection of pesticide damage in human keratinocytes by means of raman microspectroscopy	Lasalvia	Maria	University of Foggia	Foggia	ITALY
Z10	29, 36, 23	Neurotoxicological effects induced by the insecticide fipronil	Anadón	Arturo	Complutense University	Madrid	SPAIN
Z11	29, 18, 24	Antidote treatment and biological markers of intoxication with nerve agents	Dishovsky	Christophor	Military Medical Academy	Sofia	BULGARIA
Z12	29, 40, 20	Planters working with insecticide-treated conifer seedlings and acute health effects	Elfman	Lena	Uppsala University Hospital	Uppsala	SWEDEN
Z13	29, 15, 13	Effects of herbicide pendimethalin on uterotrophic response and gene expression in rat uterus	Undeger	Uluku	Hacettepe University, Faculty of Pharmacy	Ankara	TURKEY

FREE COMMUNICATIONS

Z14	29, 7, 25	Effects of benzimidazole fungicides, benomyl and carbendazim, on lipid peroxidation and antioxidant system in rat	Alpertunga	Buket	Istanbul University, Faculty of Pharmacy	Istanbul	TURKEY
Z15	29, 8, 9	Tissue specific DNA damage in the European eel (<i>Anguilla anguilla</i>) following a short-term exposure to a glyphosate-based herbicide	Guilherme	Sofia	Aveiro University	Aveiro	PORTUGAL
Z16	29, 44, 5	Acetylcholinesterase and butyrylcholinesterase in donkey and their inhibition by organophosphates	Kužner	Jernej	University of Ljubljana, Veterinary Faculty	Ljubljana	SLOVENIA
Z17	29, 43, 36	Kinetic of inhibition of esterases by non stable compounds: PMSF as a model	Estévez	Jorge	Instituto de Bioingeniería	Elche	SPAIN
Z18	4, 5, 29	P-glycoprotein induction as a cellular protection tool against xenobiotics toxicity	Silva	Renata	REQUIMTE-Faculty of Pharmacy, University of Porto	Porto	PORTUGAL
Z19	29, 36, 26	Effect of ten oxime cholinesterase reactivators on cyclosarin-intoxicated rats	Zdarova Karasova	Jana	Faculty of Military Health Sciences	Hradec Kralove	CZECH REPUBLIC
Z20	29, 23, 20	Safety of Azadirachtin	Pfau	Wolfgang	GAB Consulting	Lamstedt	GERMANY
Z21	29, 6, 23	Project logo (optional) Priority logo (or FP6 General logo if none) Safety assessment of micro-organisms used as active ingredients in plant protection	Neurath	Götz	GAB Consulting GmbH	Lamstedt	GERMANY
Z22	29, 24, 21	Associations between PON1 and CYP1A1 genetic polymorphisms and clinical findings of a Greek population exposed to pesticides.	Alegakis	Athanasios	University of Crete	Heraklion	GREECE

FREE COMMUNICATIONS

Z23	29, 39, 24	Investigation of the immunotoxic effects of some organophosphate pesticides in rats	Baconi	Daniela Luiza	University of Medicine and Pharmacy Carol Davila, Faculty of Pharmacy	Bucharest	ROMANIA
Z24	29, 36, 7	Protection against malathion-induced oxidative stress in rat brain mitochondria by phosphodiesterase (PDE) type 4 selective inhibitor	Rezvanfar	Mohammad-Ali	Tehran University of Medical Sciences, Faculty of Pharmacy, and Pharmaceutical Sciences Research Centre	Tehran	IRAN
Z25	29, 6, 36	Pathohistological evaluation of toxic effects of different oximes in rats	Jacevic	Vesna	National Poison Control Centre/Military Medical Academy	Belgrade	SERBIA
Z26	29, 24, 36	Development of new antidotes of organophosphate intoxications: Oxime-assisted reactivation of dimethoxy- and diethoxy-phosphorylated human butyrylcholinesterase for construction of "Pseudo Catalytic" bioscavengers	Musilova	Lucie	Faculty of Pharmacy	Hradec Kralove	CZECH REPUBLIC
Z27	29, 5, 36	Commercially available antidotes of organophosphate poisonings (Pralidoxime, Obidoxime, Methoxime, Trimedoxime and HI-6) and newly developed Oxime K027 as reactivators of human acetylcholinesterase inhibited by selected organophosphate pesticides	Jun	Daniel	Czech University of Life Sciences Prague	Prague	CZECH REPUBLIC

FREE COMMUNICATIONS

Z28	29, 36, 24	Evaluation of C57Bl/6 mice for motor abnormalities and Parkinson-patterned neuropathology after Paraquat and Maneb exposure at human-relevant doses	McIntosh	Laura J.	Exponent, Inc	Menlo Park	UNITED STATES
Z29	29, 25, 27	Investigation of the Role of Glutathione S-Transferase Isozymes in Pyrethroid Resistance of Helicoverpa armigera in Turkey	Konuş	Metin	Middle East Technical University	Ankara	TURKEY
Z30	29, 25, 22	Determination of lethal dose (LD50) values in susceptible population of helicoverpa armigera (HUBNER) with the registered insecticides on cotton in turkey	Ugurlu	Sakine	Plant Protection Central Research Institute	Ankara	TURKEY
Z31	29, 7, 34	The protective role of vitamins C and E against chloropyrifos-induced oxidative stress in rats: with special reference to the histology of kidneys and retinas	Abdel-Wahhab	Mosaad	Research Institute of Ophthalmology	Giza	EGYPT
Z32	29, 36, 25	The effects of organophosphate exposure on Serotonergic systems	Ramadan	Shadia	Faculty of Veterinary Medicine	Tripoli	LIBYAN ARAB JAMABIRIYA
Z33	29, 36, 44	Effective extraction and detection of some organophosphorus insecticides Seized in Egypt	Elwan	Farid	Medico Legal Administration Ministry of Justice Egypt	Cairo	EGYPT
R – Toxicology of Metals							26
R01	30, 28, 25	Tungsten, a new vegetables contaminant needs further elaborated evaluation	Brüschweiler	Beat	Swiss Federal Office of Public Health	Zürich	SWITZERLAND
R02	30, 35, 42	Impact of Lead Toxicity on Male Rat Reproduction at "Hormonal and Histopathological Levels"	Said El-Sayed	Yasser	Faculty of Veterinary Medicine, Alexandria University.	Rossetta	EGYPT

FREE COMMUNICATIONS

R03	30, 20, 22	Biomonitoring of Pb, Cd, Ni and Mn in semi-automated non ferrous alloy foundries.	Peixe	Tiago	University of São Paulo	São Paulo	BRAZIL
R04	30, 36, 22	Determination of Mercury and Lead Levels in Autopsy Brain Tissue Samples	Kaya	Seda	Ankara University	Ankara	TURKEY
R05	30, 9, 39	Effects of occupational exposure to lead: flow cytometric study	Laffon	Blanca	University of A Coruña	A Coruña	SPAIN
R06	30, 7, 36	Effect of cadmium on 24-hour pattern expression of redox enzyme genes in rat medial basal hypothalamus.	Jimenez-Ortega	Vanesa	Universidad Complutense de Madrid	Madrid	SPAIN
R07	30, 13, 4	Estrogenic activity of the heavy metal cadmium in female rats is dose and route dependent	Höfer	Nicola	Deutsche Sporthochschule Köln	Köln	GERMANY
R08	30, 15, 36	Effect of cadmium on 24-hour pattern in expression of clock genes in rat medial basal hypothalamus	Rios-Lugo	Maria Judith	Universidad Complutense	Madrid	SPAIN
R09	30, 22, 25	Assessment of Arsenic Levels in Hair Samples of Residents in Ankara	Mergen	Görkem	Ankara University	Ankara	TURKEY
R10	30, 34, 7	Renal superoxide dismutase activity in mice exposed to acute and subacute cadmium intoxication: the role of magnesium pretreatment	Djukić-Ćosić	Danijela	University of Belgrade, Faculty of Pharmacy	Belgrade	SERBIA
R11	30, 3, 25	Geochemical modelling of metals species in coastal water using PHREEQCI	Agunbiade	Foluso	Bells University of Technology	Ota	NIGERIA
R12	30, 33, 4	Effect of crude chromolaena odorata leaf extract alone and in combination with sodium arsenite in mice.	Akinwumi	Kazeem	University of Ibadan	Ibadan	NIGERIA
R13	30, 7, 33	Effect of zinc pretreatment on acute hepatic oxidative damage induced by ferric nitrilotriacetate (Fe-NTA) in rats	Kotyzová	Dana	Charles University in Prague, Faculty of Medicine in Pilsen	Pilsen	CZECH REPUBLIC

FREE COMMUNICATIONS

R14	30, 43, 22	Effects of Human AS3MT Genetic Polymorphisms on Arsenic Metabolism in Taiwanese	Li	Wan-Fen	National Health Research Institutes	Zhunan	TAIWAN
R15	30, 7, 4	Zinc protects from cadmium induced oxidative stress in the bone tissue of rats	Brzoska	Malgorzata	Medical University of Bialystok	Bialystok	POLAND
R16	30,28, 44	Excessive ethanol consumption modifies the body turnover of cadmium	Galazyn-Sidorczuk	Malgorzata	Medical University of Bialystok	Bialystok	POLAND
R17	30, 13, 4	Inhibitory effect of cadmium on clock gene expressions	Miura	Nobuhiko	National Institute of Occupational Safety and Health, Japan (JNIOSH)	Kawasaki	JAPAN
R18	30, 45, 7	Effects of heavy metals and tobacco smoke condensate on the glutathione-level in cultured human lung cells	Thomas	Sarah	Martin-Luther-University	Halle / Saale	GERMANY
R19	30, 45, 23	Biological leaching of metals from respirable tire wear particles	McAtee	Britt	ChemRisk	Pittsburgh, PA	UNITED STATES
R20	9, 30, 45	Genotoxic effects of Cd, Co and Pb on cultures of human lung cells after single and combined application	Wiese	Jan	Institut für Umwelttoxikologie	Halle	GERMANY
R21	30, 11, 7	Experimental exposure of arsenic induces apoptosis in murine splenocytes	Khan	Saleem	Indian Veterinary Research Institute	Bareilly	INDIA
R22	30, 44, 22	Effect of magnesium supplementation on blood cadmium, zinc and copper levels in rabbits exposed to prolonged cadmium intoxication	Plamenac Bulat	Zorica	Faculty of Pharmacy	Belgrade	SERBIA
R23	30, 25, 22	Pb and Cd in autopsy tissues	Rubio	Carmen	Universidad de La Laguna	La Laguna	SPAIN
R24	30, 34, 4	Renal effects by a low and single dosis of nickel chloride in adult male rats	Jaramillo-Juarez	Fernando	Universidad Autónoma de Aguascalientes	Aguascalientes	MEXICO

FREE COMMUNICATIONS

R25	30, 36, 25	Memory and cholinergic system impaired by sub-chronic exposure to uranium in young rats	Helene	Bensoussan	IRSN	Fontenay-aux-roses	FRANCE
R26	30, 24, 20	Lead elimination from blood and plasma after lead poisoning	Rentschler	Gerda	Lund University	Lund	SWEDEN
F – Food Safety							28
F01	28, 1, 26	Validation of an analytical methodology for determination of oxytetracycline residue in milk by HPLC with UV detection	Bakhtiarian	Azam	Tehran University of Medical Sciences	Tehran	IRAN
F02	28, 1, 19	Natural co-occurrence of aflatoxins and cyclopiazonic acid from corn grown in Egypt	Amra	Hassan	National research Centre	Cairo	EGYPT
F03	28, 19, 21	Aflatoxin M1 contamination in UHT milk in Tabriz (northwest of Iran)	Movassagh Ghazani	Mohamma d Hosein	Islamic Azad University, Shabestar Branch,Iran	Shabestar	IRAN
F04	28, 33, 10, 6	Identification of target proteins of furan in rat liver	Moro	Sabrina	University of Würzburg	Würzburg	GERMANY
F05	28, 12, 44	All-trans retinoic acid induces breast cancer resistance protein expression in Caco-2 cells and enhances the transport of benzo(a)pyrene-3-sulfate	Hessel	Stefanie	Federal Institute for Risk Assessment	Berlin	GERMANY
F06	28, 33, 10, 8	Analysis of DNA binding of furan in rat liver by accelerator mass spectrometry	Hamberger	Carolin	Universität Würzburg	Würzburg	GERMANY
F07	28, 5, 9, 46	Drinking water contamination by polychlorinated butadienes	Brüschweiler	Beat	Swiss Federal Office of Public Health	Zürich	SWITZERLAND
F08	28, 35, 36	Effects of purity-controlled PCB52 and PCB180 on dopamine-dependent behavior in rat offspring after maternal exposure	Lilienthal	Hellmuth	BGFA - Research Institute of Occupational Medicine	Bochum	GERMANY

FREE COMMUNICATIONS

F09	28, 24, 21	Cultural practices in the amelioration of toxicity associated with fermented cassava gari	Ogunmoyela	Olugbenga	Bells University of Technology	Ota	NIGERIA
F10	28, 24, 21	Microbial detoxification of cassava leaves	Obadina	Adewale	Bells University of Technology	Ota	NIGERIA
F11	28, 24, 21	Effects of soaking and boiling, and autoclaving on anti-nutritional factors content of <i>Mucuna flagellipes</i>	Arisa	Ngozi	Bells University of Technology	Ota	NIGERIA
F12	28, 23, 29, 24	"EFSA's risk assessment of uranium in foodstuffs and water"	Castoldi	Anna F.	European Food Safety Authority (EFSA)	Parma	ITALY
F13	28, 26, 40, 23	Safety and efficacy of a novel chromium (III) dinicotinate (CDNC) in type II Zucker Diabetic Fatty (ZDF) rats	Bagchi	Debasis	University of Houston, College of Pharmacy	Houston	UNITED STATES
F14	28, 26, 32	Suppression of arthritic pain in dogs by undenatured type-II collagen (UC-II) treatment quantitatively assessed by ground force plate	Bagchi	Manashi	InterHealth Nutraceuticals	Benicia	UNITED STATES
F15	28, 23, 5, 33	In vitro toxicity of furan and its metabolite(s) in liver cells	Brueck	Jens	University of Kaiserslautern	Kaiserslautern	GERMANY
F16	28, 1, 19	Hexavalent chromium as a contaminant of food matrices: its control in bread samples	Soares	Maria Elisa	REQUIMTE - Faculty of Pharmacy of Univ of Porto	Porto	PORTUGAL
F17	28, 19, 21, 35	Ochratoxin A: Is it present in human breast milk samples obtained mothers from Ankara, Turkey	Gürbay	Aylin	Hacettepe University Faculty of Pharmacy	Ankara	TURKEY
F18	28, 29, 30, 19, 23	European risk assessments of undesirable substances in feed: animal and human health perspectives	Dorne	Jean Lou	EFSA	Parma	ITALY
F19	28, 30, 23, 19	Risk assessment of cadmium in food: Implications for human health	Heppner	Claudia	European Food Safety Authority (EFSA)	Parma	ITALY

FREE COMMUNICATIONS

F20	28, 29, 19	Estimation of the frequency and severity of plant protection products residues in greek olive oil originates from organic cultivation of olives during 2008	Tsakiris	Ioannis	Tei of Western Macedonia, Florina Branch	Edessa	GREECE
F21	28, 33, 9, 5	Cytogenetic effects of furan and its key metabolite cis-2-butene-1,4-dial in mammalian cells in vitro	Mosesso	Pasquale	Università degli Studi della Tuscia	Viterbo	ITALY
F22	28, 1, 24	Identification of atropine and scopolamine by HPLC in buckwheat flour contamination with Datura stramonium seeds	Rancic	Dragana	Military Academy	Belgrade	SERBIA
F23	28, 23, 25	Measurement of nitrate and nitrite in leaf and stem of lettuce sampled from farmlands of Sari, Iran	Akbarzadeh	Abbas	Shaheed Beheshti University of Medical Sciences, Faculty of HSE	Tehran	IRAN
F24	28, 29, 19, 1	Organochlorine pesticide residues in Baby Food products from Romania	Hura	Carmen	Institute of Public Health, Iasi	Iasi	ROMANIA
F25	28, 7, 36	Cholesterol lowering and protective effects of date fruit extract: an in vivo study	Panahi	Abdolrazagh	Chamran University	Ahwaz	IRAN
F26	28, 1, 7, 18	Flavonoids extent life span, increase stress resistance and modulate intracellular signalling in the model organism <i>Caenorhabditis elegans</i>	Kampkötter	Andreas	Heinrich-Heine University	Düsseldorf	GERMANY
F27	8, 19, 23, 28	Safety Evaluation of a Refined Arachidonic Acid-Rich Oil	Casterton	Phillip L.	Cargill, Incorporated	Minneapolis	UNITED STATES
F28	23, 25, 28	Occurrence of Fumonisin in corn, some corn based foods and wheat products in Egypt	Diefy	Salem	Assiut University	Assiut	Egypt

H – Risk Assessment

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H01	23, 18, 22, 27	Relationship between dental fluorosis and fluoride content in hair of school children from fluorotic and non fluorotic regions in Serbia	Mandinic	Zoran	School of Dentistry	Belgrade	SERBIA
H02	23, 3, 19, 37	Prioritization of textile dyes from a consumer health perspective	Brüschweiler	Beat	Swiss Federal Office of Public Health	Zürich	SWITZERLAND
H03	23, 19, 28	Assessment of the health risks from non compliance with bromate drinking water parametric value	Cartier	Thomas	Agence Française de Sécurité Sanitaire des Aliments	Maisons-Alfort	FRANCE
H04	23, 24, 27, 37	Medical gloves residual risks	Eskov	Andrey	Firm BMK-INVEST, ZAO	Moscow	RUSSIAN FEDERATION
H05	23, 8, 37	Relative photomutagenic potency of furocoumarins and limettin	Raquet	Nicole	TU Kaiserslautern	Kaiserslautern	GERMANY
H06	23, 9, 22, 27	Micronuclei in Peripheral Blood Lymphocytes in Formaldehyde Occupationally Exposed Workers	Ladeira	Carina	Higher School of Health Technologies of Lisbon - Polytechnic Institute of Lisbon	Lisbon	PORTUGAL
H07	23, 37, 39	Quantitative Risk Assessments for Dermal Sensitization to Fragrance Ingredients: The Utility of LLNA Data in the Weight of Evidence Approach to Identifying Thresholds	Lalko	Jon	Research Institute for Fragrance Materials, Inc.	Woodcliff Lake	UNITED STATES
H08	23, 37, 39, 3	Bayesian evaluation of non-animal information to support decision making - skin sensitization test case	Jaworska	Joanna	Procter & Gamble Eurocor	Strombeek-Bever	BELGIUM
H09	23, 19, 45	The Use of Assessment factors and the Implicit Safety Margins in Occupational Exposure Limits	Schenk	Linda	Royal Institute of Technology	Stockholm	SWEDEN

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H10	23, 19, 20	Risk Assessment and Management - European Training Programme (Risk ASSETs)	Duarte-Davidson	Raquel	Health Protection Agency	Cardiff	UNITED KINGDOM
H11	23, 19, 20	Advanced International Training Courses in Health Risk Assessment	Zilliacus	Johanna	Karolinska Institutet	Huddinge	SWEDEN
H12	23, 3, 28, 29, 43	Improving the assessment of risks from dietary exposures by modeling variation and uncertainty in exposure and dose response using linked exposure and PBPK/PD models	Price	Paul	Dow Europe GmbH	Horgen	UNITED STATES
H13	23, 19, 28	Guidance documents on submissions for the technical and toxicological evaluation of substances proposed for use as food additives or nutrient sources in the EU	Lodi	Federica	European Food Safety Authority (EFSA)	Parma	ITALY
H14	23, 19, 28	The European Food Safety Authority's (EFSA's) Risk Assessment Process for EU Authorised Food Additives and Nutrient Sources	Gartlon	Joanne	European Food Safety Authority (EFSA)	Parma	ITALY
H15	23, 46, 19, 20	Refinement of TTC values: Identification of outliers in Cramer class 1-3	Tluczkiewicz	Inga	Fraunhofer Institute for Toxicology and Experimental Medicine ITEM	Hannover	GERMANY
H16	23, 32, 3, 19	Toxicological categories -A necessary extension of the chemical category approach	Weiss	Sara	Fraunhofer Institute for Toxicology and Experimental Medicine ITEM	Hannover	GERMANY
H17	23, 3, 19, 20	How valid are "old" repeated dose toxicity studies for chemical risk assessment? "	Batke	Monika	Fraunhofer ITEM	Hannover	GERMANY

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H18	23, 45, 10, 19, 20	Proposal of a new carcinogenic toxicological reference value (TRV) for inhalation exposure to 1,2-dichloroethane	Laurent	Bodin	AFSSET	Maisons-Alfort	FRANCE
H19	23, 13, 19, 35	Elaboration of a toxicological reference value (TRV) for the reprotoxic effects of nonylphenol	Mathieu	Aurélié	French Agency for Environmental and Occupational Health Safety	Maisons-Alfort	FRANCE
H20	23, 29, 45	Selecting a Toxicity Reference Value (TRV) for Lindane to assess health risks associated with a school contamination in France	Rousselle	Christophe	AFSSET	Maisons-Alfort	FRANCE
H21	23, 19, 20	Assessment factors for extrapolation from short-time to chronic exposure - are the REACH guidelines adequate	Hansson	Sven Ove	Royal Institute of Technology (KTH)	Stockholm	SWEDEN
H22	23, 3, 25	Human experts' judgment of chemicals reactivity for identification of hazardous chemicals	Malkiewicz	Katarzyna	Royal Institute of Technology (KTH)	Stockholm	SWEDEN
H23	23, 35, 36, 30, 21, 22	Longitudinal cohort study of prenatal exposure to mercury in the Mediterranean region	Horvat	Milena	Institute Jozef Stefan	Ljubljana	SLOVENIA
H24	23, 35, 45	Toxicity of degradation products of refrigerants	Ema	Makoto	National Institute of Advanced Industrial Science and Technology	Tsukuba	JAPAN
H25	23, 3, 18, 25, 13	ATHON NDL-PCB effect database - a tool to facilitate the cumulative risk assessment of NDL-PCBs	Westerholm	Emma	Karolinska Institutet	Stockholm	SWEDEN

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H26	23, 6, 10, 33	Multiple effects of non-dioxin-like PCB 153 on plasmatic membrane, lipid signaling and cell-to-cell communication.	Pencikova	Katerina	Veterinary Research Institute	Brno	CZECH REPUBLIC
H27	23, 27, 30	Read-across approach in the risk assessment of ferrochromium. Case: repeated dose toxicity.	Stockmann-Juvala	Helene	Finnish Institute of Occupational Health	Helsinki	FINLAND
H28	23, 3, 5, 13, 36	Classification of NDL-PCB congeners based on extensive in vitro screening and multivariate statistics	Andersson	Patrik	Umeå University	Umeå	SWEDEN
H29	23, 25, 19	Atmospheric VOC Composition in Downtown Rome in the last fifteen years	Fanizza	Carla	ISPESL	Rome	ITALY
H30	23, 6, 9, 27, 28	Low Dose Genotoxicity Assessment of Acrylamide Using Biomarkers of Internal Dose and Flow Cytometry-Based Micronucleus Assay in Mice	Zeiger	Errol	Errol Zeiger Consulting	Chapel Hill	UNITED STATES
H31	23, 1, 39, 45	Scented toys: Exposure of children to fragrance allergens present in toys	Masuck	Ines	Federal Institute for Risk Assessment	Berlin	GERMANY
H32	23, 19, 30, 35, 39	Evaluation of Health Hazards by Exposure to Nickel in Drinking Water	Nielsen	Elsa	National Food Institute, Technical University of Denmark	Søborg	DENMARK
H33	23, 19, 25	High adaptation abilities of Anopheles gambiae to contrasting environmental conditions, a serious threat to malaria control efforts.	Flora	Mafo Fomekong	University of Yaounde	Yaounde	CAMEROON
H34	23, 3, 19, 43, 45	Evaluation of risk assessment factors for inter-species and time-extrapolation	Escher	Sylvia	Fraunhofer ITEM	Hannover	GERMANY
H35	23, 3, 43, 45	Sound oral to inhalation extrapolation factors for human health risk assessment	Escher	Sylvia	Fraunhofer ITEM	Hannover	GERMANY

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H36	23, 25, 30, 35	Changes in Bone Tissue Composition, Dimension and Biomechanical Properties of Rat Following In utero and Lactational Exposure to a Mixture of Environmental Contaminants Detected in Canadian Arctic Human Populations	Elabbas	Lubna	Karolinska Institute	Stockholm	SWEDEN
H37	23, 9, 19, 28	Genotoxicity studies with the colorant Acid red 1	Fieblinger	Dagmar	Bundesinstitut für Risikobewertung	Berlin	GERMANY
H38	1, 19, 20, 23	REACH is but the first step – on the need to improve testing and risk assessment for industrial chemicals	Ruden	Christina	Royal Institute of Technology	Stockholm	SWEDEN
G – Clinical Toxicology							23
G01	4, 24, 28	Spinach poisoning in a herd of deer in Shiraz animal garden, Shiraz, Iran	Pourjafar	Mehrdad	Shiraz University	Shiraz	IRAN
G02	24, 26, 40	Effects of polyvalent antivenom on acute-phase response induced by Hottentota saulcyi and Mesobuthus eupeus scorpion venom in rats	Razi Jalali	Mohammad	Chamran University of Ahvaz	Ahvaz	IRAN
G03	18, 24, 25	Gasoline Exposure Effect on Professionals in El-Minya Governorate in Upper Egypt (2007-2008)	Ibrahim	Khaled	Ministry of Justice	Assuit	EGYPT
G04	24, 26, 40	Determination and quantitation of Clozapine and its metabolites in plasma by Hplc	Dural	Emrah	Ankara University	Ankara	TURKEY
G05	21, 24, 26	Quetiapine treatment in resistant depression: a prospective study	Hafnia	Etienne	Municipal Hospital	Tunis	TUNISIA
G06	23, 24, 26	The efficiency and tolerability of memantine in the therapy of schizophrenia	Ionescu	Daniela	University of Medicine and Pharmacy Victor Babes Timisoara	Timisoara	ROMANIA

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G08	24, 34, 42	Histopathological examinations of the kidney of mice following phenol administration	Tootian	Zahra	Faculty of Veterinary Medicine, University of Tehran	Tehran	IRAN
G09	21, 24, 26	Pharmacobezoars: literature review: hypothesis of formation and therapeutic repercussions	Albertini	Laetitia	Centre Hospitalier Universitaire	Nancy	FRANCE
G10	24, 26, 32	Clinical severity of acute Carbamazepine poisonings: CNS depression and cardiotoxicity	Babic	Gordana	Military medical Academy	Belgrade	SERBIA
G11	6, 24, 26	Psychopharmacological properties of the pyridoindole derivative SMe1EC2	Mach	Mojmir	Institute of Experimental Pharmacology & Toxicology	Bratislava	SLOVAKIA
G12	42, 32, 36	Functional status of synaptic structures in posthypoxic period	Lutov	Vyacheslav	Bashkir State Medical University	Ufa	RUSSIAN FEDERATION
G13	4, 24, 25,	Unfavorable outcome in severe systematic toxicity after concentrated glutaraldehyde ingestion	Simonenko	Vladimir	P.V.Mandruga Central Military Clinical Hospital	Moscow	RUSSIAN FEDERATION
G14	21, 24, 47	Complete Heart Block Caused by Paraphenylene Poisoning: Case Report.	Hashim	Ahmed	University of Khartoum	Khartoum	SUDAN
G15	11, 24, 36	The time dependant protective effect of hyperbaric oxygen on neuronal cell apoptosis in carbon monoxide poisoning	Brvar	Miran	School of Medicine	Ljubljana	SLOVENIA
G16	2, 3, 24	Development of self-check software on the website to screen high-risk group of sick building syndrome	Nakaoka	Hiroko	Chiba University	Kashiwa, Chiba	JAPAN

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G17	4, 21, 24	A study of correlation between vitreous potassium level and post mortem interval	NAZARI KHORASGAN I	ZAHRA	AHVAZ JONDISHAPOUR UNIVERSITY OF MEDICAL SCIENCES	AHVAZ, IRAN	IRAN
G18	21, 22, 24	Rapid Determination of Anticholinergics in Accidental Poisoning by Illegal Spirits – A Case Report	Vujovic	Maja	Faculty of Medicine/Pharmacy	Nis	SERBIA
G19	21, 24, 26	A case of criminal poisoning by combination of carbamazepine and midazolam	Milosavljevic	Biljana	Institute of Forensic Medicine	Nis	SERBIA
G20	2, 24, 26	A Quick LC/MS/MS Method for the Analysis of Common Benzodiazepines and Opiates	Sasaki	Tania	Applied Biosystems	Foster City	UNITED STATES
G21	24, 26, 43	Pharmacoepidemiologic investigation regarding the interactions between antihypertensive medication and alcohol	Tartau	Liliana	University Med Pharm Gr.T.Popa	Iasi	ROMANIA
G22	24, 26, 36	Effect of diltiazem on retention and retrieval of memory in young and aged mice	Mehrabizadeh Honarmand	Mahnaz	Ahvaz Shahid Chamran University	Ahvaz	IRAN
G23	6, 24, 26,	Using Echinoidea as Potential Drug for Treating Palsy	Kecojevic	Ivana	Medical University Belgrade	Belgrade	SERBIA
P – Pharmaceutical and Industrial Safety							33
P01	20, 16, 6	Capture Compound Mass Spectrometry: An exceptional and fast method for the identification of the mechanism of toxicity in drugs	Kroll	Friedrich	Caprotec	Berlin	GERMANY

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P02	20, 26, 28	Formulation and evaluation of green tea mouthwash: A new, safe and nontoxic product for children and pregnant women	Moghbel	Abdolhossain	Ahwaz Jundishapur University of Medical Sciences	Ahwaz	IRAN
P03	6, 20, 47	Allosteric Interactions Between Terfenadine And Chlorobutanol on hERG Channels	Friemel	Anne	Federal Institute for Drugs and Medical Devices	Bonn	GERMANY
P04	20, 32, 27	The assessment of the ototoxic potential of ethyl benzene	Vyskocil	Adolf	Université de Montréal	Montréal	CANADA
P05	3, 5, 20	In silico prediction of in vivo toxicities (eTox) - The Innovative Medicines Initiative Approach	Steger-Hartmann	Thomas	Bayer Schering Pharma	Berlin	GERMANY
P06	20, 9, 25	Absence of Genotoxicity of Sulfur Dioxide (SO ₂) in a Bone Marrow Micronucleus Test with NMRI Mice, Complemented with Several Hematological Endpoints	Ziemann	Christina	Fraunhofer ITEM	Hannover	GERMANY
P07	20, 3, 35	Application of quantitative structure-activity relationships (QSARs) for modeling drug and chemical transport across the human placenta barrier: A multivariate data analysis approach	Giaginis	Costas	University of Athens, Medical School	Athens	GREECE
P08	20, 2, 3	A computational investigation of the reactivity of electrophilic toxicants	Schwöbel	Johannes A. H.	Liverpool John Moores University	Liverpool	UNITED KINGDOM
P09	19, 20, 26	Migration of Di-(2-Ethylhexyl) phthalate in normal saline during one year	Vidić Štrac	Ivona	Croatian national Institute of Public Health	Zagreb	CROATIA
P10	20, 45, 47	How to integrate safety pharmacology end-points during toxicological studies in non human primates for biologics?	Ficheux	Hervé	CIT	Evreux	FRANCE
P11	20, 3, 29	New structural alerts for carcinogenicity derived from a pesticide data set	Stalford	Susanne	Lhasa Limited	Leeds	UNITED KINGDOM

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P12	20, 3, 23	The OpenTox predictive toxicology framework	Hardy	Barry	Douglas Connect GmbH	Zeiningen	SWITZERLAND
P13	20, 35, 36	An oral developmental neurotoxicity study of decarbromodiphenyl oxide (DeBDPO) in rats	Jacobi	Sylvia	Albemarle Europe SPRL	Louvain-La-Neuve	BELGIUM
P14	20, 3, 9	Comparative evaluation of (Q)SAR models for predicting genotoxicity endpoints	Osterloh-Quiroz	Mandy	Dow Europe GmbH	Horgen	SWITZERLAND
P15	20, 47, 2	Cardiac ion channel safety screening with the CytoPatch™™ instrument "	Scheel	Olaf	Cytocentrics AG	Rostock	GERMANY
P16	20, 9, 42, 45	Evaluation of inflammatory, cytotoxic, genotoxic BAL parameters and histological findings after exposure to amosite, refractory ceramic fibres and cigarette smoke	Hurbankova	Marta	Slovak Medical University	Bratislava	SLOVAKIA
P17	20, 1, 27	Improved analytical method for monitoring exposure to volatile compounds for occupational risk prevention	Estevan Martínez	Carmen	University Miguel Hernández de Elche	Elche	SPAIN
P18	20, 6, 26	Mitochondrial effects of chloramphenicol and linezolid in HepG2 cells	Höschele	Doris	Bundesinstitut für Arzneimittel und Medizinprodukte	Bonn	GERMANY
P19	20, 3, 24, 45	A Computer Tool for the Assessment of Potential Combined Acute Effects of Chemicals in Mixtures	Côté	Jonathan	University of Montreal	Montreal	CANADA
P20	20, 26, 47, 1	The impact of drug monitoring in a case of drug resistant neonate arrhythmia	Toutoudaki	Maria	University of Crete	Heraklion	GREECE
P21	20, 3, 24	In search of Maximum Common Substructure responsible for toxicity	Ghosh	Indira	Jawaharlal Nehru University	NewDelhi	INDIA
P22	20, 5, 27	Toxic effects of Tert-Butanol on rat fibroblasts in vitro	Fontana	Luca	Catholic University of Sacred Heart	Rome	ITALY

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P23	1, 20, 26, 32	Ambulatory intravenous infusion for use in preclinical studies in the dog.	Pickersgill	Nigel	MDS	L'Arbresle	FRANCE
P24	20, 3, 23, 45	In silico assessment of acute toxicity in rodents	Lagunin	Alexey	Institute of Biomedical Chemistry	Moscow	RUSSIAN FEDERATION
P25	20, 1, 22, 26, 43	Monitoring methadone milk concentrations of methadone-maintained women in postpartum period for breastfeeding safety	Nikolaou	Panagiota	National and Kapodistrian University of Athens	Athens	GREECE
P26	20, 1, 22, 26, 19	Development and validation of a GC/MS method for the determination of buprenorphine and norbuprenorphine in blood	Papoutsis	Ioannis	National and Kapodistrian University of Athens	Athens	GREECE
P27	20, 1, 26	Development and validation of a nonaqueous capillary electrophoresis method for the quantification of donepezil in human plasma	Gubandru	Miriana	UMF Carol Davila	Bucharest	ROMANIA
P28	20, 13, 36	The neuroprotective effects of Progesterone on experimental diabetic neuropathy in rats	Panahi	Marzieh	Jundishapour Ahwaz University	Ahwaz	IRAN
P29	2, 20, 23, 26	The Innovative Medicines Initiative IMI - a new collaborative approach to drug safety testing and beyond	Gottwald	Matthias	Bayer Schering Pharma AG	Berlin	GERMANY
P30	20, 7, 33	Hepatoprotective and antioxidant activity of phytic acid and/or catechin against carbon tetrachloride-induced hepatotoxicity in rats	Hassan	Sohair	Advanced Dental and Medical Institute	Pinang	MALAYSIA
P31	20, 11, 33	In-Vitro Challenge using Thymoquinone on (HepG2) Cell Line	Hassan	Sohair	Advanced Dental and Medical Institute	Pinang	MALAYSIA
P 32	2, 5, 39, 41	Multiplexed immunoassay for monitoring cytokine profile in immunopharmacological studies in vitro	Codorean	Eleonora	Victor Babes National Institute of Pathology	Bucharest	ROMANIA

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P33	19, 20, 26	European Modular Education and Training Programme in Safety Sciences for Medicines (SafeSciMET)	Dietrich	Daniel R.	University of Konstanz	Konstanz	GERMANY
X – Regulatory Toxicology							18
X01	19, 2, 23, 39, 37	Analysing discordant local ly,p,h node assay datasets: implications for REACH	Mehling	Annette	Cognis GmbH	Duesseldorf	GERMANY
X02	19, 3, 24, 20	Information Resources for Disaster Response from the US National Library of Medicine	Goshorn	Jeanne	National Library of Medicine/NIH	Bethesda, Maryland	UNITED STATES
X03	19, 28, 29, 23	Regulatory approach of the dietary risk assessment of biocidal products.	Bouvier d'Yvoire	Michel	Joint Research Centre	Ispra (VA)	ITALY
X04	19, 39, 37	Comparison of LLNA and GPMT results for the identification of skin sensitizing potentials of the category of non-ionic sugarlipid surfactants	GARCIA	Christine	SEPPIC	Castres	FRANCE
X05	19, 13, 23, 29	Substances with endocrine disrupting properties under new EU plant protection product regulation - Establishment of assessment and decision criteria	Marx-Stoelting	Philip	Federal Institute for Risk Assessment	Berlin	GERMANY
X06	19, 29,35, 36	Chlorpyrifos and neurodevelopmental toxicity: Critical assessment and expert elicitation	Magnanti	Brooke	Haematology and Oncology Centre	Bristol	UNITED KINGDOM
X07	19, 37, 39, 23	Surfactants: Inconsistent results between the LLNA and guinea pig sensitization tests	Carrillo	Juan-Carlos	Shell International B.V.	Den Haag	NETHERLANDS
X08	19, 23, 10	Mortality and in-life patterns in Sprague-Dawley (IGS) rat tumorigenicity studies, completed over the period of 1998 to 2009.	Hooks	William	Huntingdon Life Sciences	Huntingdon	UNITED KINGDOM
X09	19, 35, 36	Validation of the auditory startle reflex in rats	Bétat	Anne-Marie	CIT	Evreux	FRANCE

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X10	19, 36, 45, 27, 23	Sensory mediated behavioral effects during exposures to ethyl acrylate	Hey	Kathrin	Leibniz Research Centre for Working Environment and Human Factors	Dortmund	GERMANY
X11	19, 27, 37, 23	Sensory irritation during acute exposures to carboxylic acids - a comparison of acetic and propionic acid	Kleinbeck	Stefan	Leibniz Research Center for Working Environment and Human Factors	Dortmund	GERMANY
X12	19, 20, 23	OEL vs. DNEL or: Expert Judgement vs. Default Factors - Reference Values under REACH Exemplified by Styrene	Schäfer	Claudia	Dr. Knoell Consult GmbH	Mannheim	GERMANY
X13	6, 9, 10, 19, 23	Risk assessment of mixtures of mutagenic and carcinogenic chemicals: A regulatory perspective from the UK	Burnett	Karin	Imperial College London	London	UNITED KINGDOM
X14	19, 35, 20, 23	Health-based workplace limit values for substances affecting male reproduction	Schuhmacher-Wolz	Ulrike	Forschungs- und Beratungsinstitut Gefahrstoffe GmbH (FoBiG)	Freiburg	GERMANY
X15	19, 5, 37, 23	Alternatives to animal testing under the EU cosmetics directive	Heuer	Nicolaj	Universität Trier	Trier	GERMANY
X16	19, 25, 28, 35	Risk assessment of di-isobutyl phthalate and di-n-butyl phthalate in food	Wölfle	Detlef	Federal Institute for Risk Assessment (BfR)	Berlin	GERMANY
X17	19, 3, 9, 26, 23	Genotoxic impurities: safety in a pandora's box?	Goldfain-Blanc	Francoise	Servier	Gidy	FRANCE
X18	19, 2, 5	Regulatory Requirements for In Vitro Systems to Meet Performance Standards During Validation and Over Time	Klausner	Mitch	MatTek Corporation	Ashland, MA	UNITED STATES