

## SUNDAY, 1<sup>ST</sup> JUNE 2025

19:00 - 22:00 **Centrálna Klubovňa** <https://www.nasaklubovna.sk/en/pubs/centralna/>  
**6th “geNIus” Pub Quiz**  
Organizers: **Executive Committee of the EEMGS New Investigators (NIs)**

## MONDAY, 2<sup>ND</sup> JUNE 2025

9:00 - 13:00 Hotel Park Inn / Foyer in front of the Pressburg room

### Registration

Attendees will have the opportunity to register individually also on other days of the conference.

13:00 - 15:00 Hotel Park Inn / Bratislava room

### HESI GTTC Workshop: Developing Consensus on the Use of Quantitative Dose-response Analysis for Risk Assessment of Mutagenic Substances

Chairs: **George Johnson** and **Paul White**

13:00 - 13:30 **George Johnson**  
*UK*

### Quantitative Interpretation of Mutagenicity Dose-response Data – Concepts, Considerations, and Concerns

13:30 - 14:00 **Anthony Lynch**  
*UK*

### Mutagenicity Assessment of Nitrosamines and NDSRIs

14:00 - 14:30 **Paul White**  
*Canada*

### Quantitative Interpretation of Polycyclic Aromatic Hydrocarbons (PAH) Mutagenicity Dose-response Data in a Risk Assessment Context

14:30 - 15:00 **Birgit Mertens**  
*Belgium*

### Mutagenicity Assessment Using In Vitro Approaches

15:00 - 15:30 Hotel Park Inn / Foyer in front of the Bratislava room  
Coffee Break

15:30 - 17:00 Hotel Park Inn / Bratislava room

### HESI GTTC Workshop: Developing Consensus on the Use of Quantitative Dose-response Analysis for Risk Assessment of Mutagenic Substances

Chairs: **George Johnson** and **Paul White**

15:30 - 16:00 **Alisa Vespa**  
*Canada*

### Regulatory Perspective on Quantitative Use of Mutagenicity Dose-response Data for Regulatory Decision-making

16:00 - 17:00 **General Discussion**

17:30 - 18:00 Hotel Park Inn / Bratislava room

### Opening ceremony

Chairs: **Monika Šramková**, **Soňa Vodenková** and **Pavel Rössner**

18:00 - 18:50 Hotel Park Inn / Bratislava room

### Keynote lecture

Chairs: **Monika Šramková** and **Alena Gábelová**

18:00 - 18:50 **Silvia Pastoreková**  
*Slovakia*

### Molecular Mechanisms of Cancer Cells' Adaptation to Hypoxia and Acidosis in Tumour Microenvironment

19:00 - 22:00 Hotel Park Inn / Foyer in front of the Bratislava room

### Welcome reception

## TUESDAY, 3<sup>RD</sup> JUNE 2025

9:00 - 10:30	Hotel Park Inn / Bratislava room <b>NAMs: New Approach Methodologies</b> Chairs: <b>Giel Hendriks</b> and <b>Emmanuel Demuynck</b>
9:00 - 9:25	<b>Giel Hendriks</b> <i>The Netherlands</i> <b>Validation of MutaTracker, a Novel Approach Method for the Detection of Gene Mutations Using Error-corrected NGS</b>
9:25 - 9:50	<b>Henriqueta Louro</b> <i>Portugal</i> <b>Ingested Titanium Dioxide Nanomaterials: New Approach to Investigate Intestinal Genotoxicity and Key Cellular/Molecular Effects</b>
9:50 - 10:15	<b>Tania Capelo</b> <i>Italy</i> <b>Can We Conclude on Mutagenicity Classification Based on In Vitro Data Only?</b>
10:15 - 10:30	<b>Emmanuel Demuynck</b> <i>Belgium</i> <b>Impact of Exposure Time and Cell Line on the Outcomes of Transcriptomic-Based Biomarkers for Genotoxicity</b>
9:00 - 10:30	Hotel Park Inn / Pressburg room <b>Occupational and Environmental Exposure</b> Chairs: <b>Stefano Bonassi</b> and <b>Zuzana Šímová</b>
9:00 - 9:25	<b>Volodymyr Vinnikov</b> <i>Slovak Republic</i> <b>Biological Dosimetry of Chronic Radiation Exposure in Medical Radiologists using Dicentric Assay and Bayesian Statistical Framework</b>
9:25 - 9:50	<b>Miroslav Mišík</b> <i>Austria</i> <b>The Impact of High-Frequency Electromagnetic Fields (1950 MHz) on DNA Damage in Buccal and Peripheral Blood Mononuclear Cells</b>
9:50 - 10:10	<b>Carina Ladeira</b> <i>Portugal</i> <b>Genotoxicity and Cytotoxicity Assessment in Pathology Professionals through the Buccal Micronuclei Assay</b>
10:10 - 10:30	<b>Andrea Bábelová</b> <i>Slovak Republic</i> <b>Periostin – Another Piece of Puzzle in Renal Fibrogenesis</b>
10:30 - 11:00	Hotel Park Inn / Foyer in front of the Bratislava room Coffee Break
11:00 - 12:30	Hotel Park Inn / Bratislava room <b>NI session: EEMGS New Investigators session</b> Chairs: <b>Sharleen Frieze</b> and <b>Mujo Hasanović</b>
11:00 - 11:10	<b>Introduction of the EEMGS New Investigators</b>
11:10 - 11:25	<b>Ann-Cathrin Wolf</b> <i>Germany</i> <b>Cellular Fate of Dietary Heme versus Non-Heme Iron and their Contribution to Spatio-Temporal ROS Formation in Intestinal Epithelial Cells</b>
11:25 - 11:40	<b>Mariam Saleh</b> <i>France</i> <b>In Vitro High-Throughput Transcriptomic Strategy Accompanied by GENOMARK &amp; TGx-DDi as Powerful Tools for Genotoxicity Evaluation in 3D HepaRG Spheroids</b>
11:40 - 11:55	<b>Julie Sanders</b> <i>Belgium</i> <b>Potency Ranking and Mode of Action Assessment of Nine (Suspected) Genotoxic Mycotoxins Using the In Vitro Micronucleus and ToxTracker Assay</b>

11:55 - 12:10	<b>Xu He</b> <i>The Netherlands</i> <b>Frozen Whole Blood Can Be Used to Detect DNA Repair Activity</b>
12:10 - 12:25	<b>Zuzana Šímová</b> <i>Czech Republic</i> <b>Occupational Exposure to Engineered Nanoparticles Produced by Machining and Welding May Affect Immune Response and Induce Cancerogenesis</b>
12:30 - 14:00	Hotel Park Inn / Restaurant Bocca Buona Lunch
14:00 - 14:50	Hotel Park Inn / Bratislava room <b>Keynote lecture</b> Chairs: <b>Monika Šramková</b> and <b>Katarína Kozics</b>
14:00 - 14:50	<b>Helena Kandárová</b> <i>Slovakia</i> <b>From Validation to Innovation: The Evolving Landscape of New Approach Methodologies in Regulatory Toxicology and Beyond</b>
15:00 - 16:30	Hotel Park Inn / Pressburg room <b>EceToc (The European Centre for Ecotoxicology and Toxicology of Chemicals) on Dose Selection</b> Chairs: <b>Bennard van Ravenzwaay</b> and <b>Pavel Rössner</b>
15:00 - 15:04	<b>Bennard van Ravenzwaay</b> <i>Germany</i> <b>Introduction to ECETOC</b>
15:04 - 15:23	<b>Bennard van Ravenzwaay</b> <i>Germany</i> <b>The Role of Toxicokinetics and Metabolism for In Vivo Dose Selection</b>
15:23 - 15:42	<b>Fiona Sewell</b> <i>UK</i> <b>Considerations for Dose Level Selection for Developmental and Reproductive Toxicity Studies: 3Rs and Scientific Perspectives</b>
15:42 - 16:01	<b>Naveed Honarvar</b> <i>Germany</i> <b>Setting Concentrations of In Vitro Toxicity Tests Using Toxicokinetic Information</b>
16:01 - 16:20	<b>Bennard van Ravenzwaay</b> <i>Germany</i> <b>Dose Selection for 'Omics Studies</b>
16:20 - 16:30	<b>General Discussion</b>
15:00 - 16:30	Hotel Park Inn / Bratislava room <b>ICAWG - International Comet Assay Working Group</b> Chairs: <b>Andrew Collins</b> and <b>Carina Ladeira</b>
15:00 - 15:05	<b>Introduction of the New ICAWG Executive Committee</b>
15:05 - 15:30	<b>Ann-Karin (Anka) Olsen</b> <i>Norway</i> <b>The In Vivo Comet Assay: Uncovering DNA Damage in Testicular Germ Cells</b>
15:30 - 15:45	<b>Phyllis Jessen</b> <i>The Netherlands</i> <b>Performance Validation of a Compact High-throughput Vertical Electrophoresis Tank for the Comet Assay</b>
15:45 - 16:00	<b>Jakob Steer</b> <i>Czech Republic</i> <b>Expanding Assay Controls: Using Multi-Species PBMC and Whole Blood in the Enzyme-Modified Comet Assay Following Potassium Bromate Exposure</b>
16:00 - 16:15	<b>Adriana Rodriguez-Garraus</b> <i>Spain</i> <b>Applying the Modified Comet Assay with DNA Repair Inhibitors in the Detection Bulky Adducts. What Will Its Specificity Be?</b>
16:15 - 16:30	<b>Luping Chen</b> <i>The Netherlands</i> <b>Altered Tryptophan Metabolism and AhR Activation in IBD: Association with DNA Damage and Gut Health</b>

16:30 - 17:30 Hotel Park Inn / Istropolis room

**Poster session w/coffee**

18:00 - 19:30 Meeting point: Hotel Park Inn / Reception Desk

**Guided City Tour**

**WEDNESDAY, 4<sup>TH</sup> JUNE 2025**

9:00 - 10:30 Hotel Park Inn / Pressburg room

**Mutamind: Evaluation and Assessment of Mutagenicity of N-Nitrosamines using In Vitro Tests**

Chairs: **Anke Londenberg** and **Roland Frötschl**

9:00 - 9:15

**Max Spänig**

*Germany*

**Estimation of Bioavailable Concentration of Endogenously Formed NAs by PBK Modelling**

9:15 - 9:30

**Steffi Chang**

*Germany*

**Finding an Optimized AMES Test Design for N-nitrosamines**

9:30 - 9:45

**Christina Ziemann**

*Germany*

**The Alkaline In Vitro Comet Assay with Liver Cell Models as a Tool for Genotoxicity Screening of N-Nitrosamines**

9:45 - 10:00

**Jörg Fahrer**

*Germany*

**DNA Alkylation Damage by Nitrosamines and DNA Repair in Liver Cell Models**

10:00 - 10:15

**Anke Londenberg**

*Germany*

**Use of Benchmark Modelling for NA Ranking of In Vitro Mutagenicity and DNA Repair Data**

10:15 - 10:30

**Roland Frötschl**

*Germany*

**Potential In Vitro Approach for Assessment of Mutagenic Risk of NDSRIs**

9:00 - 10:30 Hotel Park Inn / Bratislava room

**ecNGS: Error-corrected New Generation Sequencing**

Chairs: **Anthony Lynch** and **Ann-Karin (Anka) Olsen**

9:00 - 9:30

**Paul White**

*Canada*

**In Vivo Mutagenicity Assessment of Benzo[b]fluoranthene Using Error-Corrected Next-Generation Sequencing (ecNGS)**

9:30 - 10:00

**Lena Pfaller**

*Switzerland*

**Superior Sensitivity of Error-Corrected Sequencing for Ultra-Rare Mutation Detection in T-cell Lymphoma Case after CAR-T Treatment**

10:00 - 10:30

**Anthony Lynch**

*UK*

**Advancing Mutagenicity Assessment with Error Corrected Sequencing**

10:30 - 11:00 Hotel Park Inn / Foyer in front of the Bratislava room

Coffee Break

11:00 - 12:30 Hotel Park Inn / Bratislava room

**Frits Sobels / Early Career Awards**

Chairs: **Amaya Azqueta** and **Ann-Karin (Anka) Olsen**

11:00 - 11:45

**Frits Sobels Award presentation**

11:45 - 12:30

**Early Career Award presentation**

12:30 - 14:00 Hotel Park Inn / Restaurant Bocca Buona

Lunch

14:00 - 14:50	Hotel Park Inn / Bratislava room <b>Keynote lecture</b> Chairs: <b>Soňa Vodenková</b> and <b>Natálie Danešová</b>
14:00 - 14:50	<b>Jiří Neužil</b> <i>Czech Republic and Australia</i> <b>Horizontal Mitochondrial Transfer: A New Hallmark of Cancer with Clinical Relevance</b>
14:50 - 15:05	Hotel Park Inn / Bratislava room <b>Sponsored Talk</b> Chairs: <b>Soňa Vodenková</b> and <b>Natálie Danešová</b>
15:15 - 16:30	Hotel Park Inn / Bratislava room <b>Cancer</b> Chairs: <b>Soňa Vodenková</b> and <b>Natálie Danešová</b>
15:15 - 15:35	<b>Kate Hurlow</b> <i>UK</i> <b>A Comparison of Oesophageal Epithelial Cell Micronucleus (MN) Formation and Presence of MN in Lymphocytes: Exploring the Mechanistic Role of Reactive Oxygen Species (ROS)</b>
15:35 - 15:55	<b>Pavel Vodička</b> <i>Czech Republic</i> <b>Notes to the Microbiome in Tumor Tissue and Adjacent Mucosa from CRC Patients</b>
15:55 - 16:15	<b>Anusha Uttarilli</b> <i>Czech Republic</i> <b>Non-invasive Detection of Circulating mRNA Biomarkers in Colorectal Cancer Patients</b>
16:15 - 16:30	<b>Kristýna Tomášová</b> <i>Czech Republic</i> <b>Exploring the Telomere-Mitochondrial Axis in Colorectal Cancer Patients</b>
15:15 - 16:30	Hotel Park Inn / Pressburg room <b>Chemical Mutagenesis</b> Chairs: <b>Roland Frötschl</b> and <b>Helga Stopper</b>
15:15 - 15:35	<b>Inger Brandsma</b> <i>United States</i> <b>Investigating Limit Dose and Identifying Genotoxic Hazard of Common Pharmaceutical Solvents with ToxTracker</b>
15:35 - 15:55	<b>Stephanie Simon</b> <i>Germany</i> <b>Case Study: Nitroso-Bisoprolol - How to Use ecNGS In Vivo Mutagenicity Data and Quantitative BMD Analysis to Derive Safe Limits for Human Risk Assessment</b>
15:55 - 16:15	<b>Verena Charwat</b> <i>Austria</i> <b>New Technologies for Sound In Vitro Toxicology</b>
16:15 - 16:30	<b>Andrea Rössnerová</b> <i>Czech Republic</i> <b>Toward the Epigenetic Memory: A Story of Long-Term Human Biomonitoring Research</b>
16:30 - 17:30	Hotel Park Inn / Bratislava room <b>The EEMGS general assembly</b>
17:30 - 18:30	Hotel Park Inn / Istropolis room <b>Poster session w/coffee</b>
19:30 - 22:30	<b>Bratislava Flagship restaurant</b> <a href="https://www.bratislavskarestauracia.sk/en/">https://www.bratislavskarestauracia.sk/en/</a> <b>Gala dinner</b>

## THURSDAY, 5<sup>TH</sup> JUNE 2025

9:00 - 9:50 Hotel Park Inn / Bratislava room

### Keynote lecture

Chairs: **Monika Šramková** and **Amaya Azqueta**

9:00 - 9:50

**Mária Dušinská**

*Norway*

**Building Trust in Advanced Models: A Path to Standardization and Validation for Future Risk Assessment**

9:50 - 10:20

Hotel Park Inn / Foyer in front of the Bratislava room

Coffee Break

10:20 - 11:50

Hotel Park Inn / Bratislava room

### OECD TGs: OECD Test Guidelines

Chairs: **Mária Dušinská** and **Marc Audebert**

10:20 - 10:45

**Marc Audebert**

*France*

**Development of a Detailed Review Paper and a Retrospective Performance Analysis for the In Vitro  $\gamma$ H2AX/pH3 Method**

10:45 - 11:10

**Petra Stahlschmidt-Allner**

*Germany*

**Revision of the OECD 487 MN Test for a More Reliable Prediction of Genotoxicity/Carcinogenicity**

11:10 - 11:30

**Naouale El Yamani**

*Norway*

**Interlaboratory Validation of the Cell Transformation Assay (CTA) for Carcinogenic Assessment of BPA Alternatives**

11:30 - 11:50

**Andrew Collins**

*UK*

**In Vitro Comet Assay Test Guideline: Getting There!**

10:20 - 11:50

Hotel Park Inn / Pressburg room

### Nanoparticles

Chairs: **Andrea Bábelová** and **Milda Babonaitė**

10:20 - 10:45

**Pavel Rössner**

*Czech Republic*

**Skin Wound Healing: The Impact of Treatment with Antimicrobial Nanoparticles and Mesenchymal Stem Cells**

10:45 - 11:10

**Bojana Žegura**

*Slovenia*

**In Vitro (Geno)Toxicity Evaluation of  $MFe_2O_4$  (M=Fe, Zn, Mn) Magnetic Nanoparticles in a 3D HepG2 Model**

11:10 - 11:35

**Michal Šíma**

*Czech Republic*

**Transcriptomic Profiling of Mouse Mesenchymal Stem Cells Exposed to Nanoparticles with Antimicrobial Properties**

11:35 - 11:50

**Milda Babonaitė**

*Lithuania*

**From Uptake to DNA Damage: How Nanoparticles Interact with Human Peripheral Blood Mononuclear Cells?**

11:50 - 12:30

Hotel Park Inn / Bratislava room

### Closing ceremony & Awards

Chairs: **Monika Šramková**, **Soňa Vodenková** and **Andrea Bábelová**

12:30 - 14:00

Hotel Park Inn / Foyer in front of the Bratislava room

Light Lunch

12:30 - 13:30 Hotel Park Inn  
**Hybrid meeting**  
Chairs: **Mária Dušinská** and **Andrew Collins**

12:30 - 13:30 **In Vitro Comet Assay OECD TG Workshop**

16:30 - 18:30 **MatTek In Vitro Science Laboratories: Mlynské nivy 73, 821 05 Bratislava**  
**Workshop: Beyond the Petri Dish: Micronucleus Assay Using Human 3D Skin Models**  
*Workshop at MatTek In Vitro Science Laboratories is limited to 10 participants*  
Organizers: **MatTek In Vitro Life Science Laboratories**  
More information: <https://eemgs.eu/events/eemgs-2025/workshops/>

## FRIDAY, 6<sup>TH</sup> JUNE 2025

10:00 - 18:00 **Vienna, Hörsaalzentrum 7L (7th floor), AKH, Vienna**  
Transport from Bratislava to Vienna is not organized; each participant is responsible for arranging their own transportation  
**Workshop: Use of Genotoxicity Methods for Human Biomonitoring: Prevention – Diagnosis and Therapy of Cancer**  
Organizers: **Miroslav Mišík, Georg Wultsch, Siegfried Knasmüller**  
More information: <https://eemgs.eu/events/eemgs-2025/workshops/>