

Programme 13th International Comet Assay Workshop

Pushchino, 24-27th of June 2019

MONDAY 24th of June

- 16:30-18:00 Registration & room check-in (from 17:00)
- 18:00-19:00 Key note speaker
Olga Lavrik: The relevance of studying DNA damage and DNA repair
- 19:00-20:00 Welcome reception

TUESDAY 25th of June

- Opening by the Director
- 9:30-10:45 Human and environmental monitoring (I)
Carla Costa: NEOGENE project: DNA damage in umbilical cord blood after in utero exposure to tobacco smoke (25 min)
Elisa Boutet-Robinet: Genotoxicity and lipids oxidative damage under occupational pesticide exposure: cross-sectional and longitudinal study in a farmer cohort (20 min)
João Paulo Teixeira: Trihalomethanes exposure in indoor swimming pools users and DNA damage (15 min)
Khaled Habas: Susceptibilities to oxaliplatin-induced DNA damage in human lymphocytes: Comparison between chronic obstructive pulmonary disease (COPD), lung cancer (15 min)
- 10:45-11:15 *Coffee break*
- 11:15-12:30 Human and environmental monitoring (II)
Matjaz Novak: The relevance of zebrafish model for genotoxicity testing (25 min)
Tahereh Setayesh: Impact of weight loss on obesity induced genomic instability (20 min)
Ana Inês Silva: How does primary and oxidative DNA damage relate to birthweight, gestational age and Apgar score? (15 min)
Kristina Ordzhonikidze: Nothobranchius rachovii as a test object in genotoxicity assessment: the case of cerium dioxide nanoparticles (15 min)

- 12:30-13:30 Lunch
- 13:30-14:30 Poster Pitch presentations
(8 selected posters, more can be selected from late abstracts)

- 14:30-16:00 Poster session 1 while coffee is served
- 16:00-18:00 Open discussion session on 'Tips, Tricks & Troubleshooting'

Peter Moller: Why analysing assay controls is not just a waste of time in the comet assay (20 min)

Roger Godschalk: Comparison of scoring software packages for automated analysis of comet assay output images (20 min)

Igor Gak: Use of Biotek scoring platform (20min)

- 19:00 – 23:00 *Conference Dinner*

WEDNESDAY 26th of June

- 9:30-11:15 Nutrition and dietetics

Lisa Giovannelli: Dietary intervention with polyphenols and colon health biomarkers: focus on colon cancer chemoprevention (25 min)

Goran Gajski: Does a vegetarian diet influence genomic stability? Analysis of health-related biomarkers in vegetarians versus omnivores (20 min)

Shabana Akhtar: Protective effects of myricetin bulk and nano forms on peripheral lymphocytes from pre-cancerous patients compared to those from healthy individuals (15 min)

Anna Zwyrzykowska-Wodzińska: Assessment of Ilex plant extracts protection against hydrogenperoxide-induced DNA damage in human lymphocytes (15 min)

Lamia Benguedouar: Reversal of *in vivo* Benzo[a]pyrene genotoxicity by natural products (15 min)

Ellen Higgs: Sensitivity of Ogg1-null mouse embryonic fibroblasts for GSH depletion is DNA damage independent (15 min)

- *Rest of the day: Social programme*

➤ 9:00-11:00 Nanotoxicology and genotoxicity testing

Andrew Collins High throughput genotoxicity testing of nanomaterials (20 min)

Giel Hendriks: The ToxTracker assay combined with the Comet assay as a tool for mechanism-based genotoxicity screening of nanoparticles (25 min)

Monika Sramkova: Genotoxicity of gold nanoparticles in blood and kidneys. An in vivo study. (15 min)

Marcin Kruszewski: Genotoxicity of silver nanoparticles in 4T1 and A2780 cell lines does not correlate with cytotoxicity and ROS production (15 min)

Muhammad Adil Rasheed: Genotoxic evaluation of furosemide, propranolol and digoxin alone and in combination by using comet assay (15 min)

Andreja Jurič: Application of the alkaline comet assay to assess DNA instability in different cell types of Wistar rats exposed to irinotecan (15 min)

Sona Vodenkova: The utility of Comet assay in measuring tissue-specific DNA damage and DNA repair: pilot experiments on mice (15 min)

➤ 11:00-11:30 *Coffee break*

➤ 11:30-13:00 Round table discussion on the comet assay in regulatory testing and OECD approval – Panel members *João Paulo Teixeira, Giel Hendriks, Amaya Azqueta*

➤ 13:00-14:00 *Lunch*

➤ 14:00-15:00 Poster session 2 while coffee is served

➤ 15:00 – 16:30 Novel applications of the comet assay

Bevin P. Engelward: CometChip cell microarray technology enables detection of carcinogenic DNA adducts (25 min)

Cristiana Costa Pereira: Comet assay in bacterial cells – an effective tool for antimicrobial resistance studies? (20 min)

Andrej Podlutzky: New approach for the DNA damage/repair analysis: vertical comet assay (15 min)

Damian Muruzabal: Detection of alkylated and oxidized DNA lesions using the enzyme-modified comet assay (15 min)

Alena Gaveloba: Global DNA methylation in breast cancer cells determined by the comet assay (15 min)

➤ 16:30-17:00 *Closing and announcement ICAW 2021*