
PROVISIONAL PROGRAMME

4th International Congress on Occupational & Environmental
Toxicology 2018

24 - 26 October 2018 | Matosinhos - Porto | Portugal

4th International Congress on Occupational &
Environmental Toxicology 2018

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Programme at a Glance

Wednesday, October 24th, 2018

	ROOM PORTO LEIXÕES	ROOM BOMBORDO
10.00	Opening Ceremony	
10.30	Keynote Lecture K1	
11.00	Coffee-break & Poster Session 1	
11.45	S1: Susceptible Populations	S1: <i>In vitro</i> and <i>in vivo</i> Testing
12.05		
12.20		
12.35		
12.50		
13.05		
13.20	Lunch	
14.25	Keynote Lecture K2	
15.10	S2: Nanotoxicology	S2: Ecotoxicology
15.25		
15.40		
15.55		
16.10		
16.25		
17.00	Welcome Reception	

Congress Registration

Programme at a Glance

Thursday, October 25th, 2018

	ROOM PORTO LEIXÕES	ROOM BOMBORDO
09.25	Keynote Lecture K3	
10.10	S3: Genetic Toxicology	S3: Air Quality
10.30		
10.45		
11.10	Coffee-break & Poster Session 2	
11.55	S3: Genetic Toxicology (cont.)	S3: Air Quality (cont.)
12.15		
12.30		
12.45		
13.10	Lunch	
14.15	Keynote Lecture K4	
14.45	S4: Environmental Exposures	
15.05		
15.25	Coffee-break & Poster Session 3	
16.15	Round Table	
18.00		
20.00	Congress Dinner	

Congress Registration

Programme at a Glance

Friday, October 26th, 2018

		ROOM PORTO LEIXÕES	ROOM BOMBORDO
09.00	Congress registration	Keynote Lecture K5	
09.40		S5: Occupational Toxicology	S5: Contaminants
10.00			
10.15			
10.30			
10.45		Coffee-break	
11.15		S5: Occupational Toxicology (cont.)	S5: Contaminants (cont.)
11.30			
11.45			
12.00			
12.15		Closing Ceremony & Awards Presentation	
13.00			

Detailed Programme

Wednesday, October 24th, 2018

08.00-17.00 Congress Registration

ROOM PORTO LEIXÕES

10.00-10.30 **Opening Ceremony**

10.30-11.00 **Keynote Lecture K1**
The Monographs Programme of the International Agency for Research on Cancer (IARC)
Kate Z. Guyton, France

11.00-11.45 Coffee-break & Poster Session 1

11.45-12.05 **Searching for neuroimmune biomarkers of frailty in older adults**
Blanca Laffon, Spain (#1005)

12.05-12.20 Relationship between frailty syndrome, biomarkers and environmental factors
Armanda Gomes, Portugal (#1111)

12.20-12.35 Tobacco smoke exposure among pregnant women: urinary cotinine as storytelling
Ana Inês Silva, Portugal (#1147)

12.35-12.50 Risk assessment of methylmercury in pregnant women and newborns from Madeira (Portugal)
Cristina Carvalho, Portugal (#1139)

12.50-13.05 Radiation toxicity and risk assessment during superficial radiotherapy treatment of head and neck cancer patients
Diana Adliene, Lithuania (#1138)

13.05-13.20 Individual's DNA repair variations for increased personal health risk and poor response to therapy
William Au, USA (#1169)

13.20-14.25 Lunch

14.25-14.55 **Keynote Lecture K2**
Linking exposure to dose in *in vitro* and *in vivo* aerosol toxicity studies: choosing the right metric
Flemming Cassee, The Netherlands

15.10-15.30 *To be announced*
Andrew Collins, Norway (#1170)

15.30-15.45	<i>In vitro</i> toxicity assessment of engineered nanoparticles used in the ceramic industry Maria João Bessa, Portugal (#1080)
15.45-16.00	Toxicity of different classes of manufactured nanomaterials in rat alveolar epithelial RLE-6TN cells Fátima Brandão, Portugal (#1079)
16.00-16.15	Nickel oxide nanoparticles induce toxicity in yeasts via oxidative stress Cátia A. Sousa, Portugal (#1020)
16.15-16.30	Reproductive and developmental toxicity caused by gold nanoparticles on the biological model <i>Daphnia magna</i> Alexandre Pacheco, Portugal (#1017)
16.30-16.45	Defining nanomaterial risk profiles within the printed electronics industry Christa Schimpel, Austria (#1015)

ROOM BOMBORDO

11.45-12.05	Alternative <i>in vitro</i> systems in toxicology: usefulness of 3D hepatic models Joana Miranda, Portugal (#1023)
12.05-12.20	Renal proximal tubule epithelial cell line TH1 as a tool to study the toxicity of xenobiotics Monika Sramkova, Slovakia (#1036)
12.20-12.35	Cytotoxic activity of fucosterol, alone and in combination with 5-fluorouracil in colon cells Alice Ramos, Portugal (#1049)
12.35-12.50	Are cellulose nanofibrils safe for biomedical applications? Madalena Vilar, Portugal (#1102)
12.50-13.05	Evaluation of behavioural, genotoxic and oxidative stress parameters in melatonin supplemented old mice Vanessa Moraes de Andrade, Brazil (#1004)
13.05-13.20	Respiratory hazard of Li-ion battery components: Elective toxicity of LiCoO ₂ particles Violaine Sironval, Belgium (#1029)
13.20-14.25	Lunch
15.10-15.30	Plant comet assay in environmental studies: uses, limits and perspectives Bertrand Pourrut, France (#1068)
15.30-15.45	Biological effects on non-target organisms in the application of essential oils as natural fungicides Miriam Zanellato, Italy (#1038)
15.45-16.00	Mussels as host and biological indicators of the anthroozoonotic waterborne parasites Caroline Ajonina, Germany (#1053)

- 16.00-16.15 Toxic effects of erythromycin to freshwater and marine microalgae
Manuela D. Machado, Portugal (#1022)
- 16.15-16.30 Phytoremediation studies: comparison between *in situ* and *ex situ* experiment results
Giulia Bastia, France (#1035)
- 16.30-16.45 *Prodiamesa olivacea*, a novel non-model organism for ecotoxicity studies in natural scenarios
Lola Llorente, Spain (#1092)
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17.00 **Welcome Reception**

Detailed Programme

Thursday, October 25th, 2018

08.30-16.15 Congress Registration

ROOM PORTO LEIXÕES

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- 09.25-09.55 **Keynote Lecture K3**
Oxidative DNA Damage and DNA Repair, and Applications in Environmental Toxicology
Miral Dizdaroglu, USA
- 10.10-10.30 **Studying DNA repair using the comet assay: novel applications and future challenges**
Sabine Langie, Belgium (#1070)
- 10.30-10.45 **The FPG-modified comet assay: protocols in use, critical points and recommendations**
Amaya Azqueta, Spain (#1050)
- 10.45-11.05 **Oxidatively-induced DNA damage as bioindicator for environmental genotoxicity**
Pawel Jaruga, USA (#1041)
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- 11.10-11.55 Coffee-break & Poster Session 2
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- 11.55-12.15 **Obesity, weight loss, and DNA damage**
Helga Stopper, Germany (#1071)
- 12.15.12.30 **Isolation of leukocytes from buffy coat for comet assay analysis of DNA damage**
Sergey Shaposhnikov, Norway (#1155)
- 12.30.12.45 **Temporal and spatial analyses of DNA replication with relation to DNA damage in plants**
Jolanta Kwasniewska, Poland (#1002)
- 12.45.13.05 **Genotoxic properties of natural & synthetic cannabinoids. Are some of these compounds carcinogenic?**
Siegfried Knasmüller, Austria (#1072)
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- 13.10-14.15 Lunch
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- 14.15-14.45 **Keynote Lecture K4**
Exposome paradigm in toxicological research for public health protection and innovation
Dimosthenis Sarigiannis, Greece

14.45-15.05 How to improve diagnosis, monitoring and prevention of exposure related noncommunicable diseases: DiMoPEX action
Lygia Therese Budnik, Germany (#1064)

15.05-15.25 Infant leukemia and maternal exposures during pregnancy
Ludwine Casteleyn, Belgium (#1069)

15.25-16.15 Coffee-break & Poster Session 3

16.15-18.00 **Round Table**

ROOM BOMBORDO

- 10.10-10.25 The effect of air pollution on human fat cells
Lior Hassan, Israel (#1091)
- 10.25-10.40 Short- and long-term human exposure to coarse and fine particles in the industrial and urban area of Sines, Portugal
Sofia Augusto, Portugal (#1117)
- 10.40-10.55 Construction of passive samplers for pollution monitoring in Africa
Manuel Matos, Portugal (#1134)
- 10.55-11.10 Suitability of *Usnea rubicunda* as biomonitor of volcanogenic air pollution on hydrothermal areas
Filipe Bernardo, Portugal (#1094)
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- 11.10-11.55 Coffee-break & Poster Session 2
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- 11.55-12.10 Evaluating the success of EU Air Quality Directive: mapping impacts at the ecosystem level
Helena Cristina Serrano, Portugal (#1089)
- 12.10-12.25 Environmental particulate matter exposure during forest fires: a public health concern?
Simone Morais, Portugal (#1055)
- 12.25-12.40 Ultrafine particles and the impacts of exercising
Klara Slezakova, Portugal (#1141)
- 12.40-12.55 Assessment of the dynamics of exposure to air trihalomethanes in an indoor olympic size swimming pool
Zenaída Mourão, Portugal (#1101)
- 12.55-13.10 Assessment of indoor air quality parameters in healthcare units
Nelson Barros, Portugal (#1132)
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20.00 **Congress Dinner**

Detailed Programme

Friday, October 26th, 2018

08.30-12.15 Congress Registration

ROOM PORTO LEIXÕES

09.00-09.30	Keynote Lecture K5 Absorbed dose from dermal exposure in real-life pesticide studies: Time to leave the fixed fractional approach behind? Claudio Colosio, Italy
09.40-10.00	Changes in oxidative stress parameters of welding workers Nursen Basaran, Turkey (#1008)
10.00-10.15	Use of exfoliated nasal cells for the detection of genotoxic and acute cytotoxic effects caused by inhalative occupational exposures Georg Wultsch, Austria (#1104)
10.15-10.30	The impact of genetic polymorphisms on lead (Pb) toxicokinetics and biomarkers of oxidative stress Willian R. Gomes, Brazil (#1037)
10.30-10.45	Human biomonitoring on co-exposure to styrene and xylene – assessment of genotoxic effects Carina Ladeira, Portugal (#1122)
10.45-11.15	Coffee-break
11h15-11.30	Bioburden and mycotoxigenic burden in one Portuguese dairy – exploratory study Susana Viegas, Portugal (#1011)
11h30-11.45	Professional exposure to nanoparticles in the manufacture of parts by laser welding João Gomes, Portugal (#1016)
11h45-12.00	Occupational exposure to metals fumes in metalworking industry: a comparative study between welders and indirect exposed workers Matilde M. Rodrigues, Portugal (#1058)
12h00-12.15	Occupational diseases caused by exposure to chemical agents in a university hospital Diana França, Portugal (#1046)
12.15-13.00	Closing Ceremony & Awards Presentation

ROOM BOMBORDO

09.40-10.00	Advanced data mining approaches in the assessment of urinary concentrations of bisphenols, chlorophenols, parabens, and benzophenones in Brazilian children and their association with DNA damage Fernando Barbosa Jr., Brazil (#1148)
10.00-10.15	Influence of domestic cooking and herbs addition on the exposure to multi-mycotoxins from chicken meat M. Madalena C. Sobral, Portugal (#1025)
10.15-10.30	Estimation of Aflatoxins B1, B2, G1 and G2 in breakfast cereals available in Jordanian market S. Sharaf, Jordania (#1090) – <i>To be confirmed</i>
10.30-10.45	Predicting the environmental exposure to cytostatics in Portugal and the associated risks Mónica S. F. Santos, Portugal (#1107)
10.45-11.15	Coffee-break
11.15-11.30	Levels of BTEX, PCBs and metals in atmospheric air, household dust, and tap water in a condominium exposed to industrial waste from a steelworks Fátima R. Moreira, Brazil (#1043)
11.30-11.45	Accumulation of potentially harmful elements in soils and gramineas surrounding an industrial emission source (Estarreja, Portugal) Cláudia Coelho, France (#1065)
11.45-12.00	Effects of environmental exposure to microplastics on human health Joana C. Prata, Portugal (#1099)

Poster Session 1

- P 1088 Video strategy for promotion of knowledge in environmental health in motherhood
Marcos Rabelo, Brazil
- P 1103 Strategies and challenges in the loyalty of participants of the project childhood and environmental pollutants, Rio de Janeiro, Brazil
Thatiana Fernandes, Brazil
- P 1126 Assessment of selenium levels and selenoproteins activity in blood and plasma of pregnant women from Madeira Island (Portugal)
Cristina Carvalho, Portugal
- P 1159 The importance of socioeconomic status in tobacco use and secondhand exposure to smoke among pregnant women
Alexandra Camelo, Portugal
- P 1110 Comprehensive evaluation of potential frailty markers and etiologic factors
Armanda Gomes, Portugal
- P 1078 DESINFAST-Creating self-disinfecting surfaces
Micaela Machado Querido, Portugal
- P 1149 The management of public security in transit offenses involving drug abuse
José Aglair Barbosa de Freitas Junior, Brazil
- P 1006 Cytotoxicity of silica-coated iron oxide nanoparticles in human astrocytes
Vanessa Valdiglesias, Spain
- P 1013 Occupational exposure to nanoparticles in the ceramic industry
João Gomes, Portugal
- P 1021 Impact of nickel oxide nanoparticles on yeast physiology
Cátia A. Sousa, Portugal
- P 1027 Influence of silver nanoparticles on the epithelial-mesenchymal transition on MDA-MB-436 cells
Magdalena Matysiak-Kucharek, Poland
- P 1143 Study of genotoxicity of TiO₂ nanoparticles in four different cells lines (A549, A172, SHSY5Y and HepG2)
Fátima Brandão, Portugal
- P 1018 Toxicity of low density polyethylene microplastics to the biological model *Daphnia magna*
Alexandre Pacheco, Portugal
- P 1045 Environmental risk evaluation of pollutants transfer from anthroposoils to plants
Cláudia Coelho, France
- P 1047 Toxicity evaluation of anticancer drugs in the aquatic environment
Maria Beatriz Cristóvão, Portugal

- P 1057 Is bee pollen safe from mycotoxicological perspective?
Iwona Altyń, Poland
- P 1066 Heavy metals bioaccumulation in fish and some invertebrate species from Black and Marmara seas of Turkey
Nuray (Emir) Akbulut, Turkey
- P 1119 Effects of field-collected sediments exposure on the health status of *Chironomus riparius*
Rosario Planelló, Spain
- P 1120 Comparative ecotoxicity assessment of ampicillin based ionic liquid towards microalgae *Chlorella vulgaris*
Elisabete Pacheco, Portugal
- P 1121 Ecotoxicity assessment of cetylpyridinium chloride and n-2-hidroxyethyl-n-imidazolium chloride towards aquatic and terrestrial organisms
Elisabete Pacheco, Portugal
- P 1127 Sensitivity of the fronds growth of the aquatic macrophyte *Lemna* to formaldehyde
Piedade Barros, Portugal
- P 1133 Phytotoxicity of carbamazepine to *Lactuca sativa* and *Triticum sp* seeds
Piedade Barros, Portugal
- P 1150 Evaluation of the uranium mine effluent *in natura* and after treatment: chemical characterization and acute toxicity potential
Regiani Carvalho-Oliveira, Brazil
- P 1153 Ecotoxicological effects of haloacetic acids in *Daphnia magna*
Catarina Mansilha, Portugal
- P 1154 Genotoxicity risk assessment in fish (*Rutilus rutilus*) from rivers Drenica and Sitnica in the Kosovo
Fisnik H. Asllani, Kosovo
- P 1162 Neurotoxicity and oxidative stress induced by microplastics and other pollutants on fish – implications to human health, food safety and food security
Lúcia Guilhermino, Portugal
- P 1163 Assessment of the cytotoxicity and genotoxicity of selected tyrosine kinase inhibitors in fish cells
Matjaž Novak, Slovenia

Poster Session 2

- P 1048 Cytotoxic activity of preussin isolated from marine fungus *Aspergillus candidus* in breast cancer cell lines
Alice Ramos, Portugal
- P 1095 *In vitro* toxicological potential of the extracts of *Acmella oleracea* (L.) RK Jansen
Ana Valeria de Moraes, Brazil
- P 1096 Effect of DLC films on viability and genotoxicity in A172 human glioblastoma
Newton S. da Silva, Brazil
- P 1100 *In vitro* exposure to the next-generation plasticizer DINCH®: cytotoxicity and genotoxicity assessment in human cells
Ana Luísa Vasconcelos, Portugal
- P 1105 Effects of phenolic compounds from *Prunus avium* leaves in Caco-2 cells against *t*-BHP-induced toxicity
Ana R. Nunes, Portugal
- P 1106 Effects of sweet cherry phenolics on human colon adenocarcinoma Caco-2 cells
Ana C. Gonçalves, Portugal
- P 1142 Cytotoxicity assessment of functional coatings for controlled degradation of magnesium alloys
Sónia Fraga, Portugal
- P 1144 *In vitro* genotoxicity assessment of a dextrin-based hydrogel for biomedical applications
Isabel Pereira, Portugal
- P 1145 *In vivo* biocompatibility and safety assessment of a dextrin-based hydrogel for biomedical applications
Isabel Pereira, Portugal
- P 1160 *In vitro* skin irritation assessment of plant extracts
Ana Sofia Agonia, Portugal
- P 1161 *In vitro* eye irritation assessment of plant extracts
Ana Sofia Agonia, Portugal
- P 1028 Chlorpyrifos impact on adipocyte hyperplasia and hypertrophy: study on 3T3-L1 model
Magdalena Czajka, Poland
- P 1073 Genetic damage, cholinesterase and unconnected oxidative stress in glyphosate exposed Wistar rats
Mirta Milic, Croatia
- P 1093 Transcriptional alterations of genetic markers in medaka (*Oryzias latipes*) exposed to bisphenol S
Lola Llorente, Spain

- P 1128 Cardiovascular effects of noise exposure from an epigenetic perspective
Carlos Carvalhais, Portugal
- P 1158 Evaluation of adrenaline-induced DNA damage *in vitro* by comet assay
Dijana Topalović, Serbia
- P 1076 The effect of age, gender, BMI, lifestyle and environmental factors on DNA damage of swimming pool users
Filipa Esteves, Portugal
- P 1077 The importance of comet assay data normalization for biomonitoring studies outcomes
Raquel Amaro, Portugal
- P 1124 Organic dust exposure in bakeries - assessment of genotoxic effects
Carina Ladeira, Portugal
- P 1034 Interlaboratory evaluation of the genotoxic properties of pencycuron, a commonly used phenylurea fungicide
Karoly Nagy, Hungary
- P 1012 Bioburden characterization in Portuguese dwellings
Carla Viegas, Portugal
- P 1024 Azole resistant mycobiota in indoor environments – what implications for public health?
Liliana Aranha Caetano, Portugal
- P 1086 Molecular characterization and antifungal susceptibility of *Aspergillus* collected in indoor settings
Liliana Aranha Caetano, Portugal
- P 1030 Bioburden characterization by active and passive methods in Portuguese dwellings
Carla Viegas, Portugal
- P 1074 Health perspectives on air quality assessment: results of FUTURAR project
Solange Costa, Portugal
- P 1097 Biomonitoring of non-occupationally exposed to benzene among individuals from the Barão de Mauá housing complex in Mauá city – metropolitan region of São Paulo, Brazil
Leiliane Coelho André, Brazil
- P 1112 Air pollution and health: an approach for Portugal
Ana Mendes, Portugal
- P 1129 Noise exposure and cardiovascular disease: a protocol for a systematic review
Carlos Carvalhais, Portugal
- P 1131 Environmental and biological monitoring of benzene exposure in residents near gas stations
Nelson Barros, Portugal

- P 1137 Effectiveness of chemical elements accumulated in leaves to identify the air pollution sources
Regiani Carvalho-Oliveira, Brazil
- P 1140 Air quality in Portuguese primary schools: PM₁₀ and PM_{2.5}
Klara Slezakova, Portugal
- P 1157 Active and passive air sampling techniques as tools for health risk assessment of PAHs in Novi Sad, Serbia
Maja Petrovic, Serbia
- P 1165 Estimating exposure at individual-level to health-relevant compounds among pregnant women based on indoor and outdoor monitoring
Joana Madureira, Portugal
- P 1075 Indoor airborne endotoxins levels in Portuguese primary schools
Lívia Aguiar, Portugal
- P 1082 Major indoor air pollutants: do we work in a healthy environment?
Carla Valongo, Portugal

Poster Session 3

- P 1007 Exposure assessment to toluene in a chemical industry - complementary between air monitoring and biomonitoring data
Miguel Barros, Portugal
- P 1010 Occupational exposure to mycotoxins - current knowledge and prospects
Susana Viegas, Portugal
- P 1019 Occupational co-exposure to solvents – the case of styrene and xylene
Márcia Meneses, Portugal
- P 1044 Biological monitoring with biomarkers of exposure, effect and susceptibility for metals and PCBs in individuals environmentally exposed to industrial waste in Brazil
Fátima R. Moreira, Brazil
- P 1051 Diagnostic value of microRNAs as predictive markers for asbestos exposure and malignant pleural mesothelioma
Priscilla Boccia, Italy
- P 1052 Occupational exposure to formaldehyde in pathology laboratories
Ana Filipa Pires, Portugal
- P 1056 Grill workers' exposure to particulate matter and gaseous pollutants
Simone Morais, Portugal
- P 1059 Perception of health professionals on hospital waste risk
Beatriz Edra, Portugal
- P 1063 Hairdressers are exposed to high concentrations of formaldehyde during the hair straightening procedure
Marcelo Eduardo Pexe, Brazil
- P 1067 Perceived health symptoms related to occupational exposure to chemical agents in healthcare workers
Diana França, Portugal
- P 1081 Endotoxin levels in forklift's filters and the importance of maintenance enforcement
Bruna Lage, Portugal
- P 1098 Occupational regulation for benzene: an approach on risk and occupational exposure
Leiliane Coelho André, Brazil
- P 1115 Occupational exposure to antineoplastic drugs in veterinary practice
Ana Costa-Veiga, Portugal
- P 1009 Capability of the urinary porphyrins profile to assess different metal exposure contexts - a preliminary study
Vanda Lopes de Andrade, Portugal
- P 1026 *In vitro* toxicity of isolated and combined mycotoxins on Caco-2 and HepG2 cell lines
M. Madalena C. Sobral, Portugal

- P 1031 Occupational exposure to biological agents in wastewater treatment plants
Manuela Cano, Portugal
- P 1033 Quantification of metals in alcoholic and non-alcoholic drinks most consumed in Portugal
Luísa Mateus, Portugal
- P 1040 Geophagy during gestation and its potential health impacts: case study in Onangama village, northern Namibia
Carla Candeias, Portugal
- P 1042 Neuronal central acting medicines in surface water: a comparison of its prospective/retrospective exposure assessment
Joana Freitas, Portugal
- P 1054 Prevalence of occupational allergic diseases in workers involved in animal production
Vanessa Mateus, Portugal
- P 1085 Impact of professional cleaning agent used in fish-canning industry in wastewater treatment
Vânia Ferreira, Portugal
- P 1114 Ambulatory oncology therapy: impact on public health and environment
Ana Costa-Veiga, Portugal
- P 1125 Toxicity of cyanotoxin-microplastics mixtures in *Daphnia magna*
Pedro Cruz, Portugal
- P 1135 Bioaccumulation of toxic metals in edible vegetables: a controlled risk assessment study using irrigation waters enriched in metals
Manuel Matos, Portugal
- P 1151 The role of occupational and environmental endocrine disrupting chemicals in breast cancer – preliminary results
Socaciu Andreea, Romania
- P 1156 Exposure and human health assessment of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and related compounds: horizontal profile of the Danube, Serbia
Maja Petrovic, Serbia
- P 1168 Exposure to mercury, glycemic and lipidic profile in Riparian communities in the Pará
Maria da Conceição Nascimento Pinheiro, Brazil