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on Environmental Contamination and Toxicology

Poster Session

AQUACULTURE AND ENVIRONMENT - ED. GEO P0

- Ana Julia F. Cardoso de Oliveira Microbiological contamination of *Sargassum* sp from north coast of São Paulo state (Brazil) by resistant bacteria
- Itzel Galaviz-Villa Relation between physicochemical characteristics of water and the abundance and richness of phytoplankton species in the Mandinga Lagoon, ver. Mexico

ENVIRONMENTAL CHEMISTRY MONITORING - ED. GEO P1

- Viviane Moschini-Carlos Distributions of nutrients and metals in a sediment core and in superficial sediments from a reservoir used for public water supply São Paulo, Brazil
- Maria Antónia Salgado Metal and PAH assessment of the coastline and estuaries in the north of Portugal
- Marcus Vinicius Silva Santos Concentração de metais pesados em sedimentos de corrente do rio Itapicuru Mirim, Jacobina, Bahia, Brasil
- Marcus Vinicius Silva Santos Concentração de metais pesados na fração dissolvida do rio Itapicuru Mirim em área de exploração de ouro em Jacobina, Bahia, Brasil
- Marcelo Pompêo The implementation of an abiotic typology for brazilian reservoirs
- Maria João Tomé Rocha Global amounts of polychlorinated biphenyls (PCBs) in the Porto coastline and Douro river estuary
- Maria João Tomé Rocha Total amounts of polycyclic aromatic hydrocarbons (PAHs) in the Oporto district
- Maria João Tomé Rocha Spatial and annual distribution of estrogenic endocrine compounds in the Aveiro Lagoon
- Maria João Tomé Rocha Global amounts of pesticides and their toxic impacts in the Mondego river estuary
- Júlio C. O. Lopes Evolução do perfil físico-químico dos sedimentos do estuário do rio Lima
- Júlio C. O. Lopes Evolução do perfil físico-químico dos sedimentos do estuário do rio Cávado
- Júlio C. O. Lopes Caracterização físico-química dos sedimentos do estuário do rio Minho
- Joana Gomes Martins Factors influencing infant exposure to organochlorine pesticides through breast milk intake
- Jacinto Elias Sedeño Díaz Diseño de un índice regional de calidad del agua para embalses basado en la lógica difusa
- Lisa Martins Natural radiation and geochemical data of the Vila Pouca de Aguiar massif, northern Portugal
- Amílcar Teixeira Monitoring the impacts on the ecosystem integrity of Portelo stream (Douro basin, NE Portugal) after a large spill of mining wastes
- Esther Bautista-Chamizo Sediment quality assessment related to benthic macrofauna in São Francisco river (Minas Gerais, Brazil)

ECOSYSTEM LEVEL EFFECTS - ED. GEO P1

- Jose Luis Gama Flores Diversidad y dinámica planctónica (fitoplancton y rotíferos) y la producción primaria de un lago urbano hipertrófico de la Ciudad de México
- Alfredo Pérez-Morales Eutrophication due to sewage discharges causes blooms of *Peridinium quinquecorne* (Dinophyceae) off the coasts of the Port of Veracruz, Mexico: a case study 2010-2014

EMERGING TOXIC COMPOUNDS - AULA MAGNA P0

- Cristina B. García Ecotoxicity of diltiazem
- Natalia Ros Ecotoxicology study of a mixture of drugs
- Ana-Lourdes Oropesa Jiménez Chronic effects in crustacean *Daphnia magna* after exposure to a solution of carbamazepine under single catalytic (TIO₂) ozonation
- Marta Seoane Physiological alterations on the marine microalga *Tetraselmis suecica* exposed to the uv filter benzophenone-3
- Sandrine Pontes Machado Effects of psychopharmaceuticals exposure on RNA/DNA ratios in fish species
- Bruno Pinto Effects of antidepressant fluoxetine in european sea bass juvenile's behavior
- Larraitz Garmendia Polystyrene microplastic localization and distribution in the gills and digestive gland of mussel *Mytilus galloprovincialis*
- Alexandre Campos Impact of microcystin contaminated irrigation water on the physiology and mineral content of carrot (*Daucus carota*) - implications in crop quality
- Immaculada Varó Vaello Effect of ibuprofen and carbamazepine on cyclooxygenase (COX-2) gill gene expression, lipids and reproductive hormones in temperature conditioned sole
- Lúcia Guilhermino Influence of temperature on the toxicity of the antibiotic florfenicol to species representative of freshwater phytoplankton and zooplankton
- André M. P. T. Pereira Assessment of the pharmaceuticals removal by different wastewater treatments
- Danieli Lima da Cunha Determinação do estrogênio sintético 17 α -etinilestradiol por HPLC-FLD em águas superficiais do estado do Rio de Janeiro (Brasil)
- Iolanda Ribeiro Potential of constructed wetlands for the removal of antibiotic resistant bacteria from livestock wastewater
- Miguel Santos Impact assessment and pos-spill monitoring of HNS in the marine environment

CELL AND MOLECULAR TOXICOLOGY - AULA MAGNA P0

- Anna V. Lovinskaya Genotoxic effects of rocket propellant's component on rodents
- Tânia Vieira Madureira Interference of estrogenic and androgenic inputs in the brown trout lipid metabolism - experimental biochemical and molecular studies
- Thais Cristina Casimiro Fernandes Assessment of the maximum mutagenic concentration of the pesticide thiamethoxam when evaluated by the salmonella/microsome test
- Elisabete Santos *Secale sylvestre*: a wild rye potentially useful for aluminum tolerance study
- Cindy Marlene Mesquita Serafim Real time PCR analysis of NMDA receptor expression in zebrafish embryos exposed to ketamine
- Ana Vidal Short term exposure to ketamine and its oxidative stress in zebrafish development

MICROBIAL ECOTOXICOLOGY - AULA MAGNA P0

- Cátia Venâncio Evidences of salt stress on basidiomycete and zygomycete fungi
- Jose Luis Gama-Flores Impacto del cadmio en la actividad nitrificante del bacterioplancton de los canales de Xochimilco (México): estudio en mesocosmos

legislation on indoor air quality, and subsequently there is a significant proportion of dwellings that exceed this limit (n= 57). The concentrations of the radionuclides in the rocks show a good correlation with indoor radon measured in dwellings, so it can be concluded that the granites of Telões and Pedras Salgadas, including their weathering stages, are more radiogenic than the Souto granite.

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Monitoring the impacts on the ecosystem integrity of Portelo stream (Douro basin, NE Portugal) after a large spill of mining wastes

Amílcar Teixeira¹; C. Fernandes¹; A. Gerales¹; S. Varandas²

After a period of intense precipitation, in December 2009, a big amount of wastes from an abandoned mine were spilled into Portelo stream, a tributary of Rio Sabor (Douro basin) located in the Montesinho Natural Park (NE Portugal). The wastes covered the riverbed near the mine and some riparian and agricultural downstream areas. From 2010 to 2014 we monitored the impacts of waste spill on the ecosystem integrity, namely in the water chemistry, channel and riparian habitats and on the composition of macroinvertebrate communities. Eight sampling points were selected along the hydric system. Toxicity experiments were developed in laboratory for one fish species, the Northern Iberian barbel (*Luciobarbus bocagei*), an endemic cyprinid present in the River Sabor. The results showed a big increase of conductivity (>300 $\mu\text{S}\cdot\text{cm}^{-1}$), total suspended solids (> 100 $\text{mg}\cdot\text{L}^{-1}$) and a drastic decrease of pH (<5) in the water analyses. It was also detected higher concentrations of copper, aluminium and cobalt in the water (52 physical and chemical parameters were determined, including different heavy metals). Aquatic and riparian habitats

were severely disturbed and several metrics (e.g. taxonomic richness, diversity, evenness) confirmed biotic substantial changes in composition and abundance of macroinvertebrate communities. Furthermore, biochemical indicators (Na⁺ and K⁺ plasmatic concentrations) used in laboratory tests showed to be sensitive, under acute copper exposure of barbel populations (different copper concentrations, 0.06-0.48 ppm were used), and contributed to justify the disappearance and or reduction of fish species in the affected located in the Montesinho Natural Park. Rehabilitation of disturbed areas must be implemented in order to recover the ecological integrity of the aquatic and riparian ecosystems.

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Sediment quality assessment related to benthic macrofauna in São Francisco River (Minas Gerais, Brazil)

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The São Francisco River (SFR) is one of the most important Brazilian and South American rivers. However, there are plenty sources of pollutants along this river, and there are a few environmental assessments developed in this area. Therefore, a weight-of-evidence (WOE) approach was applied to locate and identify the pollution sources in the SFR course surrounding the Votorantim Metais-Três Marias refining factory. This WOE approach was based on two different lines of evidence (LOEs): the structure of communities (Biological Monitoring Working Party score system, abundance of taxa, number of individuals, Margalef's species richness, Pielou's evenness, and Shannon-Wiener diversity), and some physico-chemical