

## CONTENTS

Volume 76, 1 February 2012

### **SETAC NORTH AMERICA 31ST ANNUAL MEETING**

- 1 Advancing the Omics in aquatic toxicology: SETAC North America 31st Annual Meeting**  
Nancy D. Denslow, Robert J. Griffitt and Christopher J. Martyniuk
- 3 DIGE and iTRAQ as biomarker discovery tools in aquatic toxicology**  
Christopher J. Martyniuk, Sophie Alvarez and Nancy D. Denslow
- 11 Concentration–response concept in ecotoxicoproteomics: Effects of different phenanthrene concentrations to the zebrafish (*Danio rerio*) embryo proteome**  
Ulrike Gündel, Stefan Kalkhof, Dimitar Zitzkat, Martin von Bergen, Rolf Altenburger and Eberhard Küster
- 23 Molecular profiling of marine fauna: Integration of omics with environmental assessment of the world's oceans**  
Nik Veldhoen, Michael G. Ikonomou and Caren C. Helbing
- 39 Identification and expression of the ecdysone receptor in the harpacticoid copepod, *Amphiascus tenuiremis*, in response to fipronil**  
Karin Gaertner, G. Thomas Chandler, Joseph Quattro, P. Lee Ferguson and Tara Sabo-Attwood
- 46 Global metabolic response in the bile of pejerrey (*Odontesthes bonariensis*, Pisces) sublethally exposed to the pyrethroid cypermethrin**  
Pedro Carriquiriborde, Damián J. Marino, Gabriela Giachero, Eduardo A. Castro and Alicia E. Ronco

### **HIGHLIGHTED ARTICLE**

- 56 Adverse effects of bisphenol A on reproductive physiology in male goldfish at environmentally relevant concentrations**  
Azadeh Hatef, Sayyed Mohammad Hadi Alavi, Abdulbaset Abdulfatah, Pascal Fontaine, Marek Rodina and Otomar Linhart

### **REGULAR ARTICLES**

- 63 Effects of exposure to soluble fraction of industrial solid waste on lipid peroxidation and DNA methylation in erythrocytes of *Oreochromis niloticus*, as assessed by quantification of MDA and m<sup>5</sup>dC rates**  
Leticia Flohr, Cristiane Funghetto Fuzinato, Sílvia Pedroso Melegari and William Gerson Matias
- 71 The acute and chronic effects of endosulfan pulse-exposure on *Jordanella floridae* (Florida flagfish) over one complete life-cycle**  
Lindsay Beyger, Rodrigo Orrego, John Guchardi and Douglas Holdway
- 79 Effects of long-term exposure to simazine in real concentrations on common carp (*Cyprinus carpio* L.)**  
J. Velisek, A. Stara, J. Machova and Z. Svobodova
- 87 Aluminum-induced oxidative stress and neurotoxicity in grass carp (Cyprinidae—*Ctenopharingodon idella*)**  
María Lourdes Fernández-Dávila, Amparo Celene Razo-Estrada, Sandra García-Medina, Leobardo Manuel Gómez-Oliván, Manuel Jesús Piñón-López, Rocio Guzmán Ibarra and Marcela Galar-Martínez
- 93 Metal bioaccumulation in the Mediterranean barbel (*Barbus meridionalis*) in a Mediterranean River receiving effluents from urban and industrial wastewater treatment plants**  
Alberto Maceda-Veiga, Mario Monroy and Adolfo de Sostoa
- 102 Time-dependent histopathological changes induced in Tilapia (*Oreochromis niloticus*) after acute exposure to pure cylindrospermopsin by oral and intraperitoneal route**  
Daniel Gutiérrez-Praena, Ángeles Jos, Silvia Pichardo, Rosario Moyano, Alfonso Blanco, José G. Monterde and Ana M Cameán

- 114 **Interactions between contaminated aquatic environments and element uptake by *Echinodorus amazinocus* and *Cryptocoryne undulata***  
Zehra Sapci and E. Beyza Ustun
- 126 **Protective effects of calcium on copper toxicity in *Pelteobagrus fulvidraco*: Copper accumulation, enzymatic activities, histology**  
Q.-L. Chen, Z. Luo, J.-L. Zheng, X.-D. Li, C.-X. Liu, Y.-H. Zhao and Y. Gong
- 135 **Glyphosate-induced structural variations in *Commelina erecta* L. (Commelinaceae)**  
Elisa S. Panigo, Ignacio M. Dellaferrera, Juan M. Acosta, Adrián G. Bender, Juan I. Garetto and Mariel G. Perreta
- 143 **Use of TIE techniques to characterize industrial effluents in the Pearl River Delta region**  
Yi-Xiang Fang, Guang-Guo Ying, Li-Juan Zhang, Jian-Liang Zhao, Hao-Chang Su, Bin Yang and Shan Liu
- 153 **Evaluation of tropical water sources and mollusks in southern Brazil using microbiological, biochemical, and chemical parameters**  
Doris Sobral Marques Souza, Ana Paula Dores Ramos, Fabrício Flores Nunes, Vanessa Moresco, Satie Taniguchi, Diego Averaldo Guiguet Leal, Silvio Tarou Sasaki, Márcia Caruso Bicego, Rosalinda Carmela Montone, Maurício Durigan, Adriano Luiz Teixeira, Mariana Rangel Pilotto, Nicésio Delfino, Regina Maura Bueno Franco, Cláudio Manoel Rodrigues de Melo, Afonso Celso Dias Bairy and Célia Regina Monte Barardi
- 162 **Toxicity assessment of various ionic liquid families towards *Vibrio fischeri* marine bacteria**  
Sónia P.M. Ventura, Carolina S. Marques, Andreia A. Rosatella, Carlos A.M. Afonso, Fernando Gonçalves and João A.P. Coutinho
- 169 **Bacterial stress response to environmental radiation relating to the Fukushima radiation discharge event, Japan: Will environmental bacteria alter their antibiotic susceptibility profile?**  
Shigeyuki Nakanishi, John E. Moore, Motoo Matsuda, Colin E. Goldsmith, Wilson A. Coulter and Juluri R. Rao
- 175 **Effects of 1,2,4-trichlorobenzene on the enzyme activities and ultrastructure of earthworm *Eisenia fetida***  
Shi-jin Wu, Huaxing Zhang, Yan Hu, Hui-long Li and Jian-meng Chen
- 182 **Toxicity of the effluent from an anaerobic bioreactor treating cereal residues on *Lactuca sativa***  
Brian Jonathan Young, Nicolás Iván Riera, María Eugenia Beily, Patricia Alina Bres, Diana Cristina Crespo and Alicia Estela Ronco
- 187 **Assessment of the genotoxicity of quinolone and fluoroquinolones contaminated soil with the *Vicia faba* micronucleus test**  
A. Khadra, E. Pinelli, M.Z. Lacroix, A. Bousquet-Melou, H. Hamdi, G. Merlina, M. Guiresse and M. Hafidi
- 193 **Accumulation and phytotoxicity of microcystin-LR in rice (*Oryza sativa*)**  
Jian Chen, Fengxiang X. Han, Fan Wang, Haiqiang Zhang and Zhiqi Shi
- 200 **Dietary intake of pollutant aerosols via vegetables influenced by atmospheric deposition and wastewater irrigation**  
Richa Pandey, Kumar Shubhashish and Jitendra Pandey
- 209 **Assessment of airborne heavy metal pollution using plant parts and topsoil**  
Snezana M. Serbula, Dusanka Dj. Miljkovic, Renata M. Kovacevic and Ana A. Ilic
- 215 **Contamination levels and spatial distribution of organochlorine pesticides in soils from India**  
K. Mishra, Ramesh C. Sharma and Sudhir Kumar

#### ***CORRIGENDUM***

- 226 **Corrigendum to “Concentrations of trace elements and organochlorines in Mutton bird (*Puffinus griseus*)” [Ecotoxicol. Environ. Saf. 74 (2011) 1742–1746]**  
Alaa El-Din Bekhit, Saleh Al-Amer, Ravi Gooneratne, Susan L. Mason, Khaled A. Osman and Lynne Clucas