

CONTENTS VOL.35, SUPPL.2, 2014

EDITORIAL

- Mojmír MACH 1

REVIEW ARTICLES

Effects of the exposure of fish to triazine herbicides

- Martin HOSTOVSKY, Jana BLAHOVA, Lucie PLHALOVA, Vladimir KOPRIVA, Zdenka SVOBODOVA 3

Neuroendocrine and behavioral consequences of untreated and treated depression in pregnancy and lactation

- Eszter CSASZAR, Kristina MELICHERCICOVA, Michal DUBOVICKY 169

Asphyxia in newborn – risk, prevention and identification of a hypoxic event

- Ingrid BRUCKNEROVÁ, Eduard UJHÁZY 201

ORIGINAL ARTICLES

Assessment of selected heavy metals pollution in water, sediments and fish in the basin Dyje, Czech Republic

- Petr DVOŘÁK, Jaroslav ANDREJÍ, Zuzana DVOŘÁKOVÁ-LÍŠKOVÁ, Pavel VEJSADA 26

Study of the influence of platinum, palladium and rhodium on duckweed (*Lemna minor*)

- Ivana BEDNAROVA, Hana MIKULASKOVA, Barbora HAVELKOVÁ, Lenka STRAKOVA, Miroslava BEKLOVA, Jiri SOCHOR, David HYNEK, Vojtech ADAM, Rene KIZEK 35

Impact of platinum group elements on the soil invertebrate *Enchytraeus crypticus*

- Barbora HAVELKOVÁ, Veronika KOVACOVA, Ivana BEDNAROVA, Jiri PIKULA, Miroslava BEKLOVA 43

The effect of subchronic metribuzin exposure to signal crayfish (*Pacifastacus leniusculus* Dana 1852)

- Dalibor KOUTNIK, Alzbeta STARA, Eliska ZUSKOVA, Antonin KOUBA, Josef VELISEK 51

Influence of arsenic and cyanobacteria co-exposure on plasmatic parameters of rainbow trout (*Oncorhynchus mykiss* W.)

- Radovan KOPP, Jan MARES, Zdenka SOUKUPOVA, Stanislav NAVRATIL, Miroslava PALIKOVA 57

The effects of subchronic exposure to ciprofloxacin on zebrafish (*Danio rerio*)

- Lucie PLHALOVA, Dana ZIVNA, Marta BARTOSKOVA, Jana BLAHOVA, Marie SEVCICOVA, Misa SKORIC, Petr MARSALEK, Vlasta STANCOVA, Zdenka SVOBODOVA 64

Resistance of common carp (*Cyprinus carpio* L.) to oxidative stress after chloramine-T treatment is increased by microalgae carotenoid-rich diet

- Alzbeta STARA, Magda SERGEJEVOVA, Pavel KOZAK, Jiri MASOJIDEK, Josef VELISEK, Antonin KOUBA 71

| | |
|--|-----|
| Efficacy of different anaesthetics for pikeperch (<i>Sander lucioperca</i> L.) in relation to water temperature Jiri KRISTAN, Alzbeta STARA, Miroslav POLGESEK, Alexandru DRASOVEAN, Jitka KOLAROVA, Josef PRIBORSKY, Miroslav BLECHA, Petr SVACINA, Tomas POLICAR, Josef VELISEK..... | 81 |
| Evaluation of the toxic effect of peracetic acid on grass carp (<i>Ctenopharyngodon idella</i>) juveniles Latifeh CHUPANI, Alzbeta STARA, Josef VELISEK, Eliska ZUSKOVA | 86 |
| Effect of prometryne on early life stages of marbled crayfish (<i>Procambarus fallax</i> f. <i>virginalis</i>) Josef VELISEK, Alzbeta STARA, Dalibor KOUTNIK, Eliska ŽUSKOVA, Antonin KOUBA..... | 93 |
| Effect of chicken antibodies on inflammation in human lung epithelial cell lines Bozena KUBICKOVA, Barbora MAJEROVA, Jana HADRABOVA, Libuse NOSKOVA, Marie STIBOROVA, Petr HODEK | 99 |
| Modulation of human cytochrome P450 1A1-mediated oxidation of benzo[a]pyrene by NADPH:cytochrome P450 oxidoreductase and cytochrome b₅ Radek INDRA, Michaela MOSEROVA, Natalie KROFTOVA, Miroslav SULC, Marketa MARTINKOVA, Vojtech ADAM, Tomas ECKSCHLAGER, Rene KIZEK, Volker M. ARLT, Marie STIBOROVA | 105 |
| Quantification of interactions between cytochrome P450 2B4 and cytochrome b₅ in a functional membrane complex Tomáš JEČMEN, Renata PTÁČKOVÁ, Daniel KAVAN, Věra ČERNÁ, Petr HODEK, Marie STIBOROVÁ, Jiří HUDEČEK, Miroslav ŠULC | 114 |
| Dicoumarol inhibits rat NAD(P)H:quinone oxidoreductase <i>in vitro</i> and induces its expression <i>in vivo</i> Marie STIBOROVA, Katerina LEVOVA, Frantisek BARTA, Helena DRACINSKA, Miroslav SULC, Petr HODEK, Eva FREI, Volker M. ARLT, Heinz H. SCHMEISER | 123 |
| Eye irritation hazard of chemicals and formulations assessed by methods <i>in vitro</i> Dagmar JÍROVÁ, Kristina KEJLOVÁ, Stanislav JANOUŠEK, Hana BENDOVÁ, Marek MALÝ, Hana KOLÁŘOVÁ, Markéta DVOŘÁKOVÁ | 133 |
| Activation of respiratory complex II by interferon-gamma and its inhibition by pyrimidine derivatives Zdeněk ZÍDEK, Petr JANSKA, Eva KMONÍČKOVÁ | 141 |
| Dual activities of emodin – DNA protectivity vs mutagenicity Andrea SEVCICOVA, Kristina BODNAROVA, Dusan LODERER, Petronela IMREOVA, Eliska GALOVA, Eva MIADOKOVA | 149 |
| Effect of HI-6 on cytokines production after immunity stimulation by keyhole limpet hemocyanin in a mouse model Miroslav POHANKA..... | 155 |
| Effect of dihydromyricetin on benzo[a]pyrene activation in rats Petr HODEK, Petra FOUSOVA, Eliska BRABENCOVA, Michaela MOSEROVA, Petr PAVEK, Eva ANZENBACHEROVA, Jaroslav BROTEK, Jiri HUDECEK, Eva FREI, Marie STIBOROVA | 158 |
| The impact of clozapine on regulation of inflammation in murine macrophage cells Alzbeta KRACMAROVA, Miroslav POHANKA | 175 |
| Paracetamol poisonings in the Czech and Slovak Republic and N-acetylcysteine treatment. Data analysis Michal URBAN, Blažena CAGÁŇOVÁ, Silvia PLAČKOVÁ, Ivana KURCOVÁ, Daniela PELCLOVÁ | 180 |

| | |
|---|-----|
| Determination of antioxidative properties of herbal extracts: <i>Agrimonia herba</i>, <i>Cynare folium</i>, and <i>Ligustri folium</i> | 186 |
| <i>Dominika TOPOLSKA, Katarina VALACHOVA, Milan NAGY, Ladislav SOLTES</i> | |
| HI-6 oxime (an acetylcholinesterase reactivator): blood plasma pharmacokinetics and organ distribution in experimental pigs | 191 |
| <i>Martin KUNEŠ, Jaroslav KVĚTINA, Jan BUREŠ, Jana ŽDÁROVÁ KARASOVÁ, Michal PAVLÍK, Ilja TACHECÍ, Kamil MUSÍLEK, Kamil KUCA</i> | |
| Radical scavenging activity of <i>Caesalpinia spinosa</i> | 197 |
| <i>Katarína VALACHOVÁ, Dominika TOPOLSKÁ, Milan NAGY, Carmen GAIDAU, Mihaela NICULESCU, Ján MATYAŠOVSKÝ, Peter JURKOVIČ, Ladislav ŠOLTÉS</i> | |
| Does nasal neuroglial heterotopia represent a risk for the newborn during delivery? | 211 |
| <i>Ingrid BRUCKNEROVÁ, Mojmír MACH, Michal DUBOVICKÝ, Eduard UJHÁZY</i> | |
| Subchronic perinatal asphyxia increased anxiety- and depression-like behaviors in the rat offspring | 214 |
| <i>Natália SEDLÁČKOVÁ, Martina KRAJČIOVÁ, Romana KOPRDOVÁ, Eduard UJHÁZY, Ingrid BRUCKNEROVÁ, Mojmír MACH</i> | |
| PEER-REVIEW and CONFLICT OF INTEREST Statements | 2 |