129 REVIEW – Cytokines, epilepsy and antiepileptic drugs – is there a mutual influence? Justyna Miodzikowska-Abiecht, Barbara Steinborn, Marcin Zarowski

139 REVIEW – Hormonal supplementation in endocrine dysfunction in critically ill patients. Anna Dulawa, Łukasz Buldak, Robert Kysiak, Boguslaw Okspeł

150 REVIEW – Versatile effects of sildenafil: recent pharmacological applications. Subramaniam Uthayadas, Senthikumar S. Karuppagounder, Bessy M. Thrash, Kodeeswaran Parameshwaran, Vishnu Supprijanam, Muralikrishnan Dhanasekaran

164 Inhibitor of cyclooxygenase-2 protects against amyloid β peptide-evoked memory impairment in mice. Magdalena Cąkara, Anna R. Malik, Joanna B. Strożnijader

173 Neurochemical and behavioral effects of 8-OH-DPAT following exposure to restraint stress in rats. Noreen Samad, Farhat Babol, Darakishan J. Haleem

181 Theophylline, adenosine receptor antagonist prevents behavioral, biochemical and neurochemical changes associated with an animal model of tardive dyskinesia. Mahendra Bishnoi, Kanwajit Chopra, Shrinivas K. Kukkami

190 Role of phosphoinositide 3-kinase in ischemic postconditioning-induced attenuation of cerebral ischemia-evoked behavioral deficits in mice. Ashish K. Rehni, Nimai Singh


206 Toxicity of pyrimidine derivatives under oxidative stress conditions: chemiluminescence-based assays in systems containing erythrocytes, mitochondria or blood plasma. Waldemar Sajewicz

216 Cytotoxic activity of the selected pyridinium salts against murine leukemia L1210. Mażena Wieczorkowska, Piotr Szajerski, Radosław Michalski, Jan Adams, Andrzej Marcinek, Języ Gębicki, Ewa Cieśielka, Leszek Szmiłero, Ewa Lech-Marahda, Anna Szmiłerska-Kaplon, Tadeusz Robjak

224 The short- and long-term effects of two isomers of DDT and their metabolite DDE on hormone secretion and survival of human choriocarcinoma JEG-3 cells. Anna K. Wójtowicz, Katarzyna Augustowska, Ewa L. Gęgórąszczuk

SHORT COMMUNICATIONS

233 Antiproiferative activity of parthenolide against three human cancer cell lines and human umbilical vein endothelial cells. Jolanta Parada-Turska, Roman Puduch, Maria Majdan, Małyna Kandele-Szzerzeń, Wojciech Rejski

238 Inhibitors of phosphatidylinositol 3-kinase: effects on reactive oxygen species and platelet aggregation. Sheikh Arshad Saeed, John Dennis Connor, Imran, Javeria Quadri, Shumaila Taseem, Sagheer Ahmed, Muhammad Ahmed Mešak, Muhammad Iqbal Choudhary

244 Note to Contributors