

# **Acta Poloniae Pharmaceutica – Drug Research**

Volume 71, Number 2

March/April 2014

## **CONTENTS**

### **REVIEW**

215. Natalia Stasiak, Wirginia Kukuła-Koch, Kazimierz Główniak      Modern industrial and pharmacological applications of indigo dye and its derivatives – a review.
223. Bartosz Kędzierski, Wirginia Kukuła-Koch, Kazimierz Główniak      Application of CPC and related methods for the isolation of natural substances – a review.
229. Marta Zalewska, Monika Siara, Waldemar Sajewicz      G protein-coupled receptors: abnormalities in signal transmission, disease states and pharmacotherapy.

### **ANALYSIS**

245. Israr Ahmad, Ashif Sajjad, Zahid Mehmood, Noshad Amir, Durr-E-Sabih, Muhammad Hassham Hassan bin Asad, Syed Nisar, Hussaian Shah, Bilal Ahmad, Muhammad Jamal Taha, Shujaat Ali Khan, Fareeha Anwar, Muhammad Haneef, Ghulam Murtaza      Preparation and radiochemical control of  $^{99m}$ Tc labeled blood pool agent for *in vivo* labelling of the red blood cells.
249. Agnieszka Dołęń, Anna Jelińska, Monika Manuszevska      Stability-indicating HPLC method for the determination of cefquinome sulfate.
255. Przemysław Zalewski, Judyta Cielecka-Piontek, Magdalena Paczkowska      Development and validation of stability-indicating HPLC method for simultaneous determination of meropenem and clavulanic acid potassium.
261. Dorota Marszałek, Anna Goldnik, Aleksander P. Mazurek, Małgorzata Balicka, Agnieszka Koziorkowska, Agnieszka Hermanowicz, Monika Łuka, Milena Piątkowska, Sylwia Grodzka, Sylwia Kumorowska      Stability of new anticonvulsant derivatives of picolinic, nicotinic, cyclocarboxylic acids in body fluids and tissues.
265. Ireneusz Sowa, Magdalena Wójciak-Kosior, Maciej Strzemski, Kamilia Rokicka, Tomasz Blicharski, Ryszard Kocjan      Analysis of compounds with phytoestrogenic activity in dietary supplements with use of HPTLC-densitometry method.

### **DRUG BIOCHEMISTRY**

271. Mirosław Krośniak, Renata Francik, Katarzyna Kołodziejczyk, Agnieszka Wojtanowska-Krośniak, Cinzia Tedeschi, Veronica Petrone, Ryszard Grybos      Investigation of the influence of vanadium compounds treatment in NZO mice model – preliminary study.

### **NATURAL DRUGS**

279. Marija T. Popovic-Milenkovic, Marina T. Tomovic, Snezana R. Brankovic, Biljana T. Ljubic, Slobodan M. Jankovic      Antioxidant and anxiolytic activities of *Crataegus nigra* Wald. et Kit. berries.

### **PHARMACEUTICAL TECHNOLOGY**

287. Arfet Idrees, Nisar Ur Rahman, Zeeshan Javaid, Muhammad Kashif, Irfan Aslam, Khizar Abbas, Talib Hussain      *In vitro* evaluation of transdermal patches of flurbiprofen with ethyl cellulose.
297. Chengdong Wu, Ghulam Murtaza, Muhammad Arfat Yameen, Muhammad Naeem Aamir, Muhammad Akhtar, Aboul Malik, Yuhao Zhao      Permeation study through bacterial cellulose membrane.
301. Haroon Khalid Syed, Kok Khiang Peh      Identification of phases of various oil, surfactant/cosurfactants and water system by ternary phase diagram.
311. Timucin Uğurlu, Uğur Karaçık, Erkan Rayaman      Optimization and evaluation of clarithromycin floating tablets using experimental mixture design.

## **PHARMACOLOGY**

323. Rose Nina, Adriana I. Landa, José Vicente Lafuente, Pascual A. Gargiulo  
Effects of antidepressants and soybean association in depressive menopausal women.

## **GENERAL**

329. Leos Fuksa, Magda Vytrisalova, Tereza Hendrychova, Ivana Hrubesova, Jiri Vlcek, Vladimir Palicka  
Consumption of osteoanabolic drugs and strontium ralenate in the treatment of osteoporosis in the Czech Republic in 2005–2011.
337. Jianxian Chen, Ghulam Murtaza, Nida Nadeem, Xiaokuai Shao, Zainab Shafique, Saeed Ahmad, Seyyeda T. Amjad, Saima Haroon, Mamoon Tanoli, Mei Zhou  
A questionnaire based survey study for the evaluation of knowledge of Pakistani university teachers regarding their awareness about ibuprofen as an over the counter analgesic.

## **SHORT COMMUNICATION**

343. Jolanta Sochacka  
Docking of thiopurine derivatives to human serum albumin and binding site analysis with Molegro Virtual Docker program.