

**LIST OF SCIENTIFIC PUBLICATIONS
OF PHARMACEUTICAL RESEARCH INSTITUTE STAFF IN THE YEAR 2003**

I. ORIGINAL PAPERS

1. O. Achmatowicz, B. Szechner: "A new chiral pool approach to anthracyclines. The stereoselective synthesis of Idarubicinone", *J. Org. Chem.*, **68**, 2398 (2003)
2. E. Jagiello-Wojtowicz, A. Chodkowska, M. Gadzikowska, E. Chojecka-Koryn, G. Gryniewicz: "Preliminary evaluation of CNS effects of 6-O-substituted chelidone derivatives", *Acta Polon. Pharmaceut. – Drug Res.*, **60**, 133 (2003)
3. P. Slifirski, W. Szelejowski, G. Gryniewicz, J. Gubernator, A. Kozubek: "Liposomal formulation of Idarubicin", *Acta Polon. Pharmaceut. – Drug Res.*, **60**, 138 (2003)
4. W. Szeja, G. Pastuch, I. Wandzik, N. Kuznik, G. Gryniewicz: "Synthesis of selectively protected genistein derivatives", *Synth. Commun.*, **33**, 4107 (2003)
5. J. Zielonka, J. Gebicki, G. Gryniewicz: "Genistein as a potent hydroxyl radical scavenger", *Free Rad. Biol. Med.*, **35**, 958 (2003)
6. L. Mazur, A.E. Koziol, J. Krzywda, M. Glice, J. Cybulski: "Structure of solvates of 5-(morpholinemethyl)-3[(4-chlorobenzylidene)amino]-2-oxazolidinone", *J. Mol. Struct.*, **647**, 151 (2003)
7. L. Mazur, A.E. Koziol, J. Krzywda, M. Glice, J. Cybulski: "The influence of guests on host molecular conformation: the structures of solvates of 5-(morpholinemethyl)-3-[(4-chlorobenzylidene)amino]-2-oxazolidinone", *J. Mol. Struct.* **647**, 151 – 158 (2003)
8. J. Krzywda, J. Cybulski, A.E. Koziol, Z. Chilmonczyk: "Molecular structure of some 3-amino-2-oxazolidinone derivatives", *Acta Polon. Pharmaceut. – Drug Res.*, **60**, 129 (2003)
9. R. Humeniuk, L. Kaczmarek, W. Peczyńska-Czoch, E. Marcinkowska: "Cytotoxicity and cell cycle effects of some novel indolo[2,3-b]quinoline derivatives.", *Oncol. Res.*, **13**, 269-277 (2003)
10. K. Kamińska-Trela, L. Kania, M. Bechcicka, L. Kaczmarek: " ¹³C NMR studies on the structure of 5H- and 6H- indolo[2,3-b]quinolines and the related compounds.", *J. Molecular Struct.*, **661/662**, 209-218 (2003).
11. R. Balicki, M. Cybulski, G. Maciejewski: "An efficient deoxygenation of heteroaromatic N-oxides using zinc dust/ammonium formate reagent system.", *Synthetic Commun.*, **33(23)**, 4137-4041 (2003).
12. I. Cendrowska, K. Bankowski, J. Iskra-Jopa: "A study on the stereochemical purity of tradolapril and octahydro-1H- indole-2-carboxylic acid by HPLC method", *Acta Poloniae Pharmaceutica – Drug Research*, Volume 60, Numer 2 (141-144), March/April (2003)
13. J.B. Charis, J. Ren, M. Henary, O. Zegrocka-Stendel, G.R. Bishop, L. Strekowski: "Triplex selective 2-(2-naphthyl)quinoline compounds: origins of affinity and new design principles", *J. Am. Chem. Soc.*, **124**, 7272-7283 (2003)
14. A. Korda, J. Winiarski: "Synthesis of (3,4) β-Methylenecepham and (3,4) β-Methylenecarbacephams Via Intramolecular Carbene Addition to Double Bond", *Bioorganic and Medicinal Chemistry*, 1957-1967, **11** (2003)
15. L. Strekowski, M. Say, O. Zegrocka, F.A. Tanius, W.D. Wilson, L. Manzel, D.E. Macfarlane: "Bis-4-aminoquinolines: Novel triple-helix DNA intercalators and antagonists of immunostimulatory CpG-oligodeoxynucleotides", *Bioorg. & Medicinal Chemistry*, **11**, 1079-1085 (2003)
16. J. Martynow, A. Kutner, H. Fitak: "The Synthesis of 17β-Hydroxy-3-methoxy-7α-methyl-1,3,5(10)-estratriene From 17β-Hydroxy-4-estren-3-one", *Chemicke Listy* **97**, 286-287 (2003)
17. R. Joachimiak, J. Martynow, Z. Paryzek: "Tetracyclic triterpenes. XVII. The Inverted Conformation of Ring A and B in Steroids...", *Polish J. Chem.* **77**, 1599-1606 (2003)

18. H. Kruszewska, U. Chmielowiec, E. Bednarek i inni: "Spectroscopic identification of AZT derivative obtained from biotransformation of AZT by *Stenotrophomonas maltophilia*", *Journal of Molecular Structure*, **651-653**, 645-650 (2003)
19. B. Trzaskowski, A. Les, L. Adamowicz: "Modelling of octahedral manganese II complexes with inorganic ligands: a problem with spin states" *International Journal of Molecular Sciences*; **4**, 503-511(2003)
20. B. Trzaskowski, A. Les, L. Adamowicz, J. Gervay-Hague: "Design of candidates for inhibitors of solvolysis catalyzed by sialyl transferase"; *Annals of the Polish Chemical Society*, **1**, 129-132 (2003) (ISBN 83-901844-8-6)
21. A. Jurkiewicz, A. Les, V.I. Danilov, A.S. Deriabina, E. Gonzalez, V.I. Poltev: "The comparison of molecular mechanics and DFT computations for various mutual positions of guanine and cytosine bases" *Annals of the Polish Chemical Society*; **3**, 884-888 (ISBN 83-901844-8-6) (2003)
22. K.Kobylnska, M.Barlinska, M.Kobylnska: "Analysis of nabumetone in human plasma by HPLC. Application to single dose pharmacokinetic studies", *Journal of Pharmaceutical and Biomedical Analysis* **32**, 323-328 (2003)
23. J. Niedziolka, M. Opallo: "Electrochemical redox reaction at silica based electrode – silica based electrolyte interface", *Electrochem. Commu.* **5**, 737(2003)
24. M. Opallo, J. Niedziolka: "Solid electrolyte based on silicate matrix functionalized with tetraallylammonium group solvated by organic solvent", *Electrochimica Acta*, **38**, 4149 (2003)
25. P. Cmoch: "Identification of 2-chloropyrazine oxidation products and several derivatives by multinuclear magnetic resonance", *Magn. Reson. Chem.*, **41**, 693-698, (2003)
26. A Szczepanska, A Bielejewska, A. Kwaterczak, J. Jurczak: „Synthesis of Chiral Tetraazacoronands Derived from L-Alanine and Their Investigations Using Capillary Electrophoresis Technique”, *Journal of Supramolecular Chemistry* **2**, 271-277 (2002)

II. MONOGRAPHS AND REVIEWS

1. M. Gadzikowska, G. Gryniewicz: "Fitosterogeny jako selektywne modulatory aktywnosci receptorow estrogenowych", *Postepy Fitoterapii*, **4** (10), 28 (2003)
2. Z.Chilmonczyk, K.Kobylnska, Hassan Y.Aboul-Enein: "HPLC in Bioavailability Examination." , *Separation Techniques in Clinical Chemistry*, ed. Hassan Y.Aboul-Enein, Marcel Dekker, New York, USA (2003)

III. ACCEPTED PAPERS

1. A. Les, W. Pucko, W. Szelejewski: "Optimalization of the Reduction of a 5-Benzylidenethiazolidine-2,4-dione Derivative Supported by the Reaction Response Surface Analysis: Synthesis of Pioglitazone Hydrochloride", *Organic Process Research & Development*
2. W. Wojciechowska, A. Kutner, A. Les, W. Szelejewski: "Dehydration of egzo-hydroxymethyl group in androstane derivative; optimization and scale-up"; *Organic Process, Research & Development*
3. J. Wietrzyk, M. Pelczynska, J. Madej, S. Dzimira, H. Kusnierczyk, A. Kutner, W.Szelejewski, A. Opolski: "Toxicity and antineoplastic effect of (24R)-1,24-dihydroxyvitamin D₃ (PRI-2191)"; *Steroids*
4. M. Tetich, A. Kutner, M. Leskiewicz, B. Budziszewska, W. Lason: „Neuroprotective effects of (24R)-1,24-dihydroxycholecalciferol in human neuroblastoma SH-SY5Y cell line"; *J. Steroid Biochem. Mol. Biol.*
5. A. Jarmula, P. Cieplak, A. Les, W. Rodel: "Relative free energies of binding to thymidylate synthase of 2- and/or 4-thio and/or 5-fluoro analogues of dUMP"; *Journal of Computer-Aided Molecular Design*

6. V.I. Poltev, V.I. Danilov, A. Les, A. Jurkiewicz, A.S. Deriabina, E. Gonzalez: „Possible Configurations of Gua-Cyt DNA Base Dimers”, *Molecular Mechanics and Density Functional Theory Computations*
7. H. Ksycinska, B. Sobik, J. Popiolkiewicz, K. Polkowski, P. Krzeczynski, J. Ramza, W. Pucko, G. Gryniewicz: “Determination of new derivatives of genistein in culture media by high-performance liquid chromatography analysis”, *J. Chromatography B*
8. K. Polkowski, J. Popiolkiewicz, P. Krzeczynski, J. Ramza, W. Pucko, O. Zegrocka-Stendel, J. Boryski, J. S. Skierski, A. P. Mazurek, G. Gryniewicz: ”In vitro anticancer activity of synthetic genistein glycosides”, *Cancer Letters*
9. K. Kamienska-Trela, L. Kania, M. Behcicka, L. Kaczmarek: ”Analysis of carbon-carbon spin-spin couplings $^1J_{CC}$ in polycyclic heteroaromatic compounds.” *Ann. Pol. Chem Soc.*, 2003
10. W. Maruszak, M.G. Schmid, G. Gubitz, E. Ekiert, M. Trojanowicz: ”Separation of Enantiomers by Capillary Electrophoresis using Cyclodextrins”, *Methods in Biotechnology: Chiral Separations: Methods and Protocols, Humana Press*
11. W. Maruszak, L. Wojcik, B. Szostek, M. Trojanowicz: ”Separation and Determination of Perfluorocarboxylic Acids using Capillary *Electrophoresis and UV Detection*” – wyslane do recenzji
12. A. Dzygiel, B. Rzeszotarska, E. Masiukiewicz, P. Cmoch, B. Kamienski: “Synthesis, Structure and Properties of N-Acetylated Derivatives of Methyl 5-Amino-1H-[1,2,4]triazole-3-carboxylate” *Chemical & Pharmaceutical Bulletin*
13. R. Andrukiewicz, P. Cmoch, A. Gawel, K. Stalinski : “Stereoselection at the steady state in radical cyclizations of acyclic systems containing one acceptor and two precursors in 1,5-relationship under pseudo-first order conditions”, *J. Org. Chem*
14. P. Cmoch, A. Gawel, A. Petrosyan, A. Stepień, K. Stalinski,: “The preparation and NMR investigation of tri- and tetraorganotin compounds containing the (S)-4-isopropyl-4,5-dihydrooxazole ligand”, *Organometallics* - w recenzji
15. B. K. Glod, K. Stanczak, A. Wodniak, A. Walendzik: ”Zastosowanie wysokosprawnej chromatografii cieczowej do oznaczania Calkowitego Potencjalu Antyoksydacyjnego”
16. A. Bielejewska and B. K. Glod: “Separation of Acetic And Trifluoroacetic Acids on RP-HPLC System Using Mobile Phase Containing Ion Interaction Reagent Without Buffer.”, *Journal of Pharmaceutical and Biomedical Analysis*
17. A. Bielejewska, B.K. Glod: „Niby takie same, a jednak inne, czyli o enancjomerach i ich roli w chorobie Parkinsona”, *Aktualn. Neurol.*
18. B.K. Glod, A. Bielejewska „Chromatograficzne metody oznaczania stresu oksydacyjnego oraz calkowitego potencjalu antyoksydacyjnego, *Farmac. Pol.*