

LIST OF SCIENTIFIC PUBLICATIONS OF PHARMACEUTICAL RESEARCH INSTITUTE STAFF IN THE YEAR 2000

I. MONOGRAPHS AND REVIEWS

1. A. Opolski, J. Wietrzyk, A. Siwinska, E. Marcinkowska, A. Chrobak, A. Kutner, C. Radzikowski, Biological Activity *In Vitro* of Side-Chain Modified Analogues of Calcitriol, *Curent Pharmaceutical Design*, **6**, 755 (2000)
2. S. Majewski, A. Kutner, S. Jablonska, Vitamin D Analogs in Cutaneous Malignancies, *Current Pharmaceutical Design*, **6**, 829 (2000)
3. G. Gryniewicz, O. Achmatowicz, W. Pucko, Bioactive isoflavone – genistein; synthesis and prospective applications, *Herba Polonica*, **46** (3), 151 (2000)
4. G. Gryniewicz, O. Achmatowicz, W. Pucko, Bioaktywny izoflawon – genisteina – perspektywy zastosowan medycznych, *Postepy Fitoterapii*, **1** (3), 14, (2000)

II. ORIGINAL PAPERS

1. A. Kalska-Kowalska, I. Cendrowska, A. Cholewinska, H. Beczkowicz, J. Zagrodzka, J. Ramza, G. Gryniewicz, Remarks on USP recommendations for quantitative determination of idarubicin hydrochloride by HPLC method, *Chem. Anal.*, **45**, 73 (2000)
2. J. Zagrodzka, M. Gadzikowska, W. Golkiewicz, G. Cieplucha, G. Gryniewicz, Quantitative determination of chelidonine in Cynarein® tablets by HPLC, *Acta Chromatogr.*, **10**, 122 (2000)
3. P.Krajewski, L. Kozerski, G. Gryniewicz, E. Bednarek, J. Sitkowski, Solution conformation of alkaloid chelidonine and its protonated form, *Magn. Res. Chem.*, **38**, 757 (2000)
4. J. Poplawski, B. Lozowicka, A.T. Dubis, B. Lachowska, S. Witkowski, D. Siluk, J. Petruszewicz, R. Kaliszan, J. Cybulski, M. Strzalkowska, Z. Chilmonczyk.: Synthesis and hypolipidemic and antiplatelet activities of α -asarone isomers in humans (in vitro), mice (in vivo), and rats (in vivo). *J. Med. Chem.*, **43**, 3671 (2000)
5. Z. Chilmonczyk, J. Cybulski, A. Bronowska, A. Les. Molecular modeling of buspirone-serotonin receptor interactions. *Acta Pol. Pharm.*, **57**, 281 (2000)
6. L. Kaczmarek, B. Zagrodzki, B. Kamienski, M. Pietrzak, W. Schiff, A. Les. Synthesis and NMR study of new derivatives of [2,2'-bipyridyl]-3,3'-diol and [2,2'-bipyridyl]-3-ol. *J. Mol. Struct.* **553**, 61 (2000)
7. J. Osiadacz, L. Kaczmarek, A. Opolski, J. Wietrzyk, E. Marcinkowska, K. Biernacka, Cz. Radzikowski, M. Jon, W. Peczynska- Czoch, Microbial conversion of methyl- and methoxy-substituted derivatives of 5H-indolo[2,3-b]quinoline as a method of developing novel cytotoxic agents. *Anticancer Res.*, **19**, 3333-3342 (1999)
8. L. Kaczmarek, W. Peczynska-Czoch, J. Osiadacz, M. Mordarski, W.A. Sokalski, J. Boratynski, E. Marcinkowska, H. Glazman-Kusnierczyk, C. Radzikowski, „Synthesis and cytotoxic activity of some novel indolo[2,3-b]quinoline derivatives, DNA Topoisomerase II inhibitors.”. *Bioorg. and Med. Chem.*, **7**, 2457-2464 (1999)
9. Kania, K. Kamienska-Trela, L. Kaczmarek, ¹H and ¹³C NMR Studies of 5,6,11-Trimethyl-6H-indolo[2,3-b]quinolinium Methylsulfate and Some of Its Derivatives. *Polish J. Chem.*, **74**, 1599-1608 (2000)
10. L. Kaczmarek, B. Zagrodzki, B. Kamienski, M. Pietrzak, W. Schilf, A. Les, Synthesis and NMR study of new derivatives of [2,2'-bipyridyl]-3,3'-diol and [2,2'-bipyridyl]- ol. *Mol. Struct.*, **553**, 61-72 (2000)
11. J. Osiadacz, J. Majka, K. Czarnecki, W. Peczynska-Czoch, J. Zakrzewska-Czerwinska, L. Kaczmarek, W. A. Sokalski, Sequence-Selectivity of 5,11-Dimethyl-5H-indolo[2,3- b]quinoline Binding to DNA. Footprinting and Molecular Modeling Studies. *Bioorg. Med. Chem.* **8**, 1-7 (2000)

12. A. Glowacka, W.J. Szczepek, P.K. Wrona, Application of 4-Hydroxy-, 4-Oxo- and 4-Hydroxyimino Derivatives of Stable 2,2,6,6-Tetramethylpiperidine N-Oxyl Radical for the Measurements of Lewis Acidity of Solvents. *Polish J. Chem.*, **74**, 1341-1348 (2000)
13. R. Balicki, U. Chmielowiec, A Mild Deoxygenation of Heteroaromatic N-Oxides by Formamidinium-sulfinic Acid. *Monatsh. Chem.*, **131**, 1105 (2000)
14. R. Balicki, J. Golinski, A Simple and Efficient Method for the Preparation of N-Heteroaromatic N-Oxides. *Synth. Commun.*, **30(8)**, 1529 (2000)
15. U. Chmielowiec, M. Kwasny, Determination of 5-Aminolevulinic Acid (ALA) by HPLC Method, *Acta Poloniae Pharmaceutica*, **57**, 153 (2000)
16. U. Chmielowiec, J. Cybulski, A. Glowacka, Opracowanie technologii syntezy chlorowodoru 1-[bis-3',5'-(N,N-dimetylokarbamoyloksy)fenylo]-2-(N-*t*-butyloamino)etanolu, publikacja w ksiazce pt.: „*Technologia Chemiczna na Przelomie Wiekow*”, wydawnictwo stalego Komitetu Kongresow Technologii Chemicznej
17. M. Skarzynski, E. Wielogorska, H. Otwinowska, Identification and Determination of the Main Constituents of Phenol Tar with Carbon and Proton NMR Spectroscopy, *The Analyst*, **125**, 1331-1334 (2000)
18. M. Kobylinska, M. Bukowska-Kiliszek, M. Barlinska, B. Sobik, K. Kobylinska, A bioequivalence study of two brands of glipizide tablets, *Acta Poloniae Pharmaceutica- Drug Research* **57** 101-104 (2000)
19. M. Kobylinska, K. Kobylinska, High-performance liquid chromatographic analysis for the determination of domperidone in human plasma, *Journal of Chromatography B*, **744**, 207-212, 2000
20. K. Kobylinska, M. Kobylinska, B. Sobik, E. Sikorska, Ocena biorownowaznosci preparatu Vivacor (karwedilol) tabletki 25 mg z odpowiednikiem leku badanego (OLB), *Terapia i Leki*, XXVIII/L, 37-39 (2000)
21. K. Kobylinska, I. Cendrowska, M. Kobylinska, M. Barlinska, High-performance liquid chromatographic analysis for determination of buspirone analogue-mesmar in rat plasma, *Acta Poloniae Pharmaceutica- Drug Research*, **57**, 65-67 (2000)
22. I. Cendrowska, B. Buszewski, Determination of finasteride and related compounds by reversed-phase high performance liquid chromatography. I. Choosing the mobile phase composition. *J. Liq. Chrom. & Rel. Technol.* **22(15)**, 2259-227 1999 (informacja w styczniu 2000)
23. M. Jezierska, I. Cendrowska, M. Markuszewski, R. Kaliszan, B. Buszewski, Comparative study of surface topography of high performance liquid chromatography columns in terms of hydrophobicity, *Chromatographia* **51**, No.1/ 2 (2000)
24. A. Kalska-Kowalska, I. Cendrowska, H. Beczkowicz, A. Cholewinska, J. Zagrodzka, J. Ramza, G. Gryniewicz, Remarks on the USP recommendations for quantitative determination of idarubicin hydrochloride by HPLC. *Chem. Anal. (Warsaw)*, **45**, 73 (2000)
25. K. Kobylinska, I. Cendrowska, M. Kobylinska, High-performance liquid chromatographic analysis for the determination of buspirone analogue-mesmar in rat plasma., *Acta Pol. Pharm.* **57**, 65-67 (2000)
26. K. Bajdor, M. Glice, A. Les, L. Adamowicz, R. Kolos, Vibrational spectroscopy of glutethimide – from isolated molecule to solid state. *J. Mol. Struct.* 511-512 (1999) 107-116 (informacja o wydrukowaniu uzyskano w styczniu 2000)
27. Wasilewicz-Niedbalska, J. Gora, B. Kosmacinska, H. Gwardiak, Badanie zmian skladu fitosteroli w procesie w procesie uwodorniania oleju rzepakowego niskienergetycznego. *Rosliny Oleiste* t. XX, zeszyt 1, str. 167-176 (2000)
28. H. Gwardiak, W. Wasilewicz-Niedbalska, B. Kosmacinska, Sprawdzanie bieglosci laboratorium w oznaczaniu skladu kwasow tluszczowych i izomerow trans metoda GLC, w badaniach miedzylaboratoryjnych. *Tluszczycze Jadalne* 4/99, 109-117 (wydane 2000)

III. ACCEPTED PAPERS

1. 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.*
2. Z. Chilmonczyk, H. Ksycinska, J. Krzywda, J. Iskra-Jopa. Enantioselectivity of 3-amino-2-oxazolidone derivatives with potential psychotropic activity on cellulose tris(4-methylbenzoate) chiral selector. *Chirality*. Praca przyjeta do druku.
3. M. Mazgajska, E. Chojnacka-Wojcik, Z. Chilmonczyk. Pharmacological properties of new 1,4-disubstituted piperazine derivatives with hypnotic activity. *Il Famaco*. Praca przyjeta do druku.
4. K. J. Krajewski, A. Les, J. Cybulski, Z. Chilmonczyk, A. Bronowska, A. Szelejewska-Wozniakowska. Novel buspirone-like 5-HT_{1A} receptor ligands. *Pol. J. Chem.* Praca przyjeta do druku.
5. M. Glice, K. Bajdor, A. Les, T. Stepanenko, M. M. Nowak, H. Y. Aboul-Enein, Z. Chilmonczyk. Vibrational spectroscopy of cyclohexylaminogluthetimide in low-temperature matrices, solutions and the solid state. *J. Mol. Struct.* Praca przyjeta do druku.
6. Z. Chilmonczyk, M. Cybulski, J. Iskra-Jopa, E. Chojnacka-Wojcik, E. Tatarczynska, A. Klodzinska, A. Les, A. Bronowska, I. Sylte. 1,2,4-substituted piperazines, new 5-HT_{1A} receptor ligands. *J. Med. Chem.* Praca przyjeta do druku.
7. A. Bronowska, A. Les, Z. Chilmonczyk, S. Filipek, O. Edvardsen, R. Oestensen, I. Sylte. Molecular dynamics of buspirone analogues of the 5-HT_{1A} and 5-HT_{2A} serotonin receptor subtypes. *Bioorg. Med. Chem.* Praca przyjeta do druku.
8. A. Bronowska, A. Les, M. M. Mazgajska, Z. Chilmonczyk. Conformational analysis and pharmacophore design for selected 1-(2-pyrimidynyl) piperazine derivatives with sedative-hypnotic activity. *Acta Pol. Pharm.* Praca przyjeta do druku.
9. N. Sadlej-Sosnowska, L. Kaczmarek, K. Rotkiewicz, „Complex formation in the indolo[2,3 b]quinolines - methylene blue systems in aqueous solutions.” *Spectrochim. Acta A*, 56, (2000)
10. L. Kaczmarek, A. Grabowska, P. Borowicz, „Strongly modified [2,2'-bipyridyl]-3,3'- diol (BP(OH)₂) a system undergoing excited state intramolecular proton transfer as a photostabilizer of polymers and as a solar energy collector.” *Journal of Photochem. Photobiol., A: Chemistry*, (2001)
11. R. Balicki, „A Mild and Convenient Procedure for the Oxidation of Aromatic Aldehydes to Carboxylic Acids Using Urea-Hydrogen Peroxide in Formic Acid.” *Synthetic Commun.* (accepted)
12. K. Kobylinska, M. Kobylinska, B. Sobik: Pharmacokinetics of (-)-(S)- bromofosfamide after intravenous and oral administration in mice, *Arzneim. Forsch./Drug Research*
13. K. Kobylinska, P. Koralewski, B. Sobik, M. Gasiorek, M. Kobylinska Pharmacokinetics and toxicity of oral (-)-(S)-bromofosfamide in patients, *Arzneim.- Foesch./ Drug Research*
14. K. Kobylinska, B. Sobik, M. Kobylinska, W. Piotrowski: Ocena biorownowaznosci preparatu Atossa tabletki 8 mg z odpowiednikiem leku badanego, *Nowotwory*
15. M. Glice, K. Bajdor, A. Les, T. Stepanenko, M. J. Nowak, H.Y. Aboulenein, Z. Chilmonczyk “Vibrational Spectroscopy of Cyclohexylaminogluthetimide in Low-Temperature Matrices, Solutions and the Solid State *J. Mol. Struct.* (w druku)
16. I. Cendrowska, A. Cholewinska, A. Kalska-Kowalska, M. Cholinska, B. Trzpił, H. Beczkowicz Validation of HPLC method for determination of carvedilol and related compounds” *Journal of Pharmaceutical and Biomedical Analysis* (wyslano do druku)