

## LIST OF SCIENTIFIC PUBLICATIONS OF PHARMACEUTICAL RESEARCH INSTITUTE STAFF IN THE YEAR 2005

### I. MONOGRAPHS AND REVIEWS

1. G. Gryniewicz, A. Opolski, Phytoestrogens and their effects on cancer, rozdział III.7, p. 329; w: „*Cancerogenic and Anticancerogenic Food Components*”, Taylor&Francis Books LLC, Boca Raton, FL, USA (2005)
2. G. Gryniewicz, H. Ksycinska, J. Ramza, J. Zagrodzka, Chromatographic quantification of isoflavones (why and how), *Acta Chromatogr.*, **15**, 31 (2005)
3. G. Gryniewicz, Wspolczesne metody poszukiwania substancji leczniczych, *Forum Farmacji Przemyslowej*, (2005)
4. Z. Stasicka, O. Achmatowicz, Kompendium terminologii chemicznej; zalecenia International Union of Pure and Applied Chemistry, Zamkom, (2005)

### II. ORIGINAL PAPERS

1. B. Szechner O. Achmatowicz, J. K. Maurin, A stereoselective synthesis of a chiral anthracyclinone AB-synthon from a carbohydrate precursor, *Tetrahedron*, **61**, 1981-85, (2005)
2. K. Badowska-Roslonek, L. Kaczmarek, J. Ramza, J. Godlewska, A. Opolski, W. Peczyńska-Czoch, New glycoside derivatives of 6H-indolo[2,3-b]quinolines, *Pol. J. Chem.*, **79**, 369-386 (2005)
3. J. Godlewska, W. Luniewski, B. Zagrodzki, Kaczmarek L., Bielawska-Pohl, A. Dus D., Wietrzyk J., Opolski A., Siwko M., Jaromin A., Jakubiak A., Kozubek A., Peczyńska-Czoch W., Biological evaluation of ω-(dialkylamino)alkyl derivatives of 6H-indolo[2,3-b]quinoline - novel cytotoxic DNA topoisomerase II inhibitors, *Anticancer Res.*, **25**, 2857-2868 (2005)
4. J. Godlewska, W. Peczyńska-Czoch, L. Kaczmarek, J. Wietrzyk, A. Nasulewicz, A. Kozubek, J. Gubernator, A. Opolski, „Liposomally Formulated 5,11-Dimethyl-Indolo[2,3-b]Quinoline as a New Antitumor Active Agent.” *Proc. of the 3-rd International Conference on Tumor Microenvironment: Progression, Therapy and Prevention*, Witz Ed., Medimond, (2004), p. 109-113. (nie wykazane w sprawozdaniu za 2004r.)
5. A. Les, W. Szelejewski, Optymalizacja wybranych etapow syntezy substancji farmaceutycznych, *Przemysl Chemiczny*, **5**, 314-319 (2005)
6. A. Les, M. Kajl, W. Szelejewski, Preliminary optimization of direct amination of 1-(2,6-dimethylphenoxy)-2-propanol. Synthesis of 1-(2,6-dimethylphenoxy)-2-aminopropane, *Polish Journal of Applied Chemistry*, **49**, 195-203 (2005)
7. J. Wietrzyk, G. Gryniewicz, A. Opolski, Phytoestrogens in cancer prevention and therapy – mechanism of their biological activity, *Anticancer Res.*, **25**, 2357 (2005)
8. L. Sliwinski, J. Folwarczna, W. Janiec, G. Gryniewicz, K. Kuzyk, Differential effects of genistein, estradiol and raloxifene on rat osteoclasts *in vitro*, *Pharmacol. Reports*, **57**, 352 (2005)
9. I. Fokt, G. Gryniewicz, P. Skibicki, T. Przewloka, W. Priebe, New strategies towards synthesis of doxorubicin analogs, *Polish J. Chem.*, **79**, 349 (2005)
10. G. Gryniewicz, I. Fokt, P. Skibicki, T. Przewloka W. Szeja, W. Priebe, Synthesis of 1-O-silylated 3-azido and 3-N-trifluoroacetamido-2,3,6-trideoxy-L-arabino- and L-lyxo- hexopyranoses, convenient glycosyl donors for preparation of anthracycline antibiotics and related DNA-binding agents, *Polish J. Chem.*, **79**, 335 (2005)
11. A. Kasprzycka, G. Gryniewicz, W. Szeja, Glycosylation of acid sensitive acceptors; Synthesis of glycidol glycosides, *Carbohydr. Res.*, **340**, 2443 (2005)
12. B. Lania-Pietrzak, K. Michalak, A.B. Hendrich, D. Mosiadz, G. Gryniewicz, N. Motohashi, Y. Shirataki, Modulation of MRP1 protein transport by plant and synthetically modified flavonoids, *Life Sci.*, **77**, 1879 (2005)

13. Z. Chilmonczyk, H. Ksycinska, M. Lisowska-Kuzmierz, A. Jonczyk, M. Mazgajska, A. Strzelczyk, H. Y. Aboul-Enein, Structure-enantioselectivity relationship of hypnotic-sedative 1,4-disubstituted piperazine derivatives on cellulose tris(4-methylbenzoate) chiral stationary phase, *Anal. Chim. Acta.*, **536**, 7-13 (2005)
14. L. Wojcik, B. Szostek, W. Maruszak, M. Trojanowicz, Separation of perfluorocarboxylic acids using capillary electrophoresis with UV detection, *Electrophoresis*, **26**, 1080-1088 (2005)
15. A. Bielejewska, K. Duszczak, J. Zukowski, HPLC separation of linezolid enantiomers using polysaccharide-based chiral stationary phases, *Acta Chromatogr.*, **15**, 183-191 (2005)
16. A. Bielejewska, K. Duszczak, J. Zukowski, Effect of (+) or (-) camphorsulfonic acid additives to the mobile phase on enantio separations of some basic drugs on a Chiralcel OD column, *J Chromatogr. A*, **1083** (1-2), 133-140 (2005)
17. A. Bielejewska, B. K. Glod, RP-HPLC separation of acetic and trifluoroacetic acids using mobile phase with ion interaction reagent and without buffer, *Chem Anal-Warsaw*, **50** (2), 387-395 (2005)
18. A. Kwaterczak, A. Bielejewska, Comparison of retention of native cyclodextrins and its permethylated derivatives on porous graphite carbon and silica C-18 stationary phases, *Anal Chim Acta*, **537** (1-2), 41-46 (2005)
19. L. Rupnicki, Z. Urbanczyk-Lipowska, A. Stepien, P. Cmoch, Z. Pianowski, K. Stalinski, New distannanes containing the chiral 2-(4-isopropyl-2-oxazoliny)-5-phenyl ligand, *J. Organomet. Chem.*, **690** (16): 3690-3696, (2005)
20. P. Cmoch, Z. Urbanczyk-Lipowska, A. Petrosyan, A. Stepien, K. Stalinski, The H-1, C-13, N-15 and Sn-117 NMR study of the intramolecular Sn-N interaction in tri- and tetraorganotin compounds containing the chiral 2-(4-isopropyl-2-oxazoliny)-5-phenyl ligand", *J. Mol. Struct.*, **733** (1-3): 29-39 (2005)

### III. ORIGINAL PAPERS (Author's affiliation outside of PRI)

1. K. Filip, M. Oleszczuk, J. Wojcik, N. N. Chung, P. W. Schiller, D. Pawlak, A. Zieleniak, A. Parcinska, E. Witkowska, J. Izdebski; Cyclic enkephalin and dermorphin analogues containing a carbonyl bridge, *Journal of Peptide Science*, **6**, 347 (2005)
2. P. Borowicz, A. Les, L. Adamowicz, J. Waluk, Vibrational spectroscopy of hydroxy-heterobiaryls. IR-active modes of [2,2'-bipyridyl]-3,3'-diol, *Photochemical & Photobiological Sciences*, **4**, 143-148 (2005)
3. B. Trzaskowski, F. Leonarski, A. Les, L. Adamowicz, Modeling at interfaces immobilization of microtubules on self-assembled monolayers, *Journal of Physical Chemistry B*, **109**, 17734-17742.(2005)
4. A. Mordzinski, A. Les, Y. Stepanenko, J. Rycombel, L. Adamowicz „S<sub>0</sub> and S<sub>1</sub> spectroscopy of jet cooled 9-cyano-10-methylanthracene: The methyl group as a molecular rotor, *Journal of Molecular Spectroscopy*, **233**, 98-109 (2005)
5. B. Trzaskowski, A. Les, L. Adamowicz, P. Deymier, A. Guzman, S.G. Stepanian, Multilevel quantum chemistry approach to the development of a database of the SAM-ligand-metal ion-protein interactions, *Journal of Computational and Theoretical Nanoscience*, **2**, 456-468 (2005)
6. I. Kudyba, J. Jozwik, J. Romanski, J. Raczko, J. Jurczak, The synthesis of oximes and nitroalkanes bearing a chiral auxiliary unit: convenient substrates for the preparation of enantiomerically pure nitrile oxides, *Tetrahedron: Asymmetry*, **16**, 2257-2262 (2005)
7. E. Matczak-Jon, V. Videnova-Adrabska, A. Burzynska, P. Kafarski, T. Lis, Solid-State Molecular Organization and Solution Behavior of Methane-1,1-Diphosphonic Acid Derivatives of Heterocyclic Amines: The Role of the Topochemical Ring Modification and the Intramolecular Hydrogen Bonds in Monosubstituted Piperid-1-ylmethane-1,1-diphosphonic Acids / bisphosphonates / conformation analysis / hydrogen-bonds / NMR spectroscopy / self-assembly / X-ray diffraction /, *Chem. Eur. J.*, **11**, No. 8, 2357-2372 (2005)

8. G. Schroeder, N. Lypachenko, P. Przybylski, B. Brzezinski, T. Kozik, A. Burzynska, P. Kafarski, Mass spectrometric and PM5 study of N-(2-pyridyl)-aminomethyldiphosphonic acids and their complexes with alkali cations, *Journal of Molecular Structure*, **750**, 142-151 (2005)
9. A. Stepień, A. Petrosyan, M. Wilk, P. Cmoch, L. Rupnicki, K. Stalinski, Free radical addition and cyclization reactions of [2-(4-(S)-isopropyl-2-oxazoline)-5-phenyl]dialkyltin hydrides, *Pol. J. Chem.*, **79** (6): 1015-1024 (2005)
10. A. Blazejczyk, M. Szczupak, W. Wieczorek, P. Cmoch, G. B. Appetecchi, B. Scrosati, R. Kovarsky, D. Golodnitsky, E. Peled, Anion-binding calixarene receptors: Synthesis, microstructure, and effect on properties of polyether electrolytes, *Chem. Mater.* **17** (6): 1535-1547 (2005)
11. Z. Pianowski, L. Rupnicki, P. Cmoch, K. Stalinski, Radical cyclizations leading to the bicyclo[2.2.1]heptane framework: A new radical approach to (+/-)-(Z)-beta-santalol, *SYNLETT* (6): 900-904 (2005)
12. S. Jarosz, B. Boryczko, P. Cmoch, A. M. Gomez, C. Lopez, Synthesis of complex carbobicyclic compounds from sugar allyltins: functionalization of the allylic position in bicyclo[4.3.0]nonene derivatives, *Tetrahedron-Asymmetr* **16** (2): 513-518 (2005)
13. A. Stepień, R. Loska, P. Cmoch, K. Stalinski, Application of the radical cascade of acyclic peptide-based precursors into analogues of type I beta-turn, *SYNLETT*, (1): 83-86 (2005)

#### IV. OTHERS

1. Wydawnictwo Jubileuszowe: „Wiesław Szelejewski; 40 lat w chemii 1965 – 2005”, Instytut Farmaceutyczny, Warszawa 2005; ISBN 83-913085-1-0