

## LIST OF SCIENTIFIC PUBLICATIONS OF PHARMACEUTICAL RESEARCH INSTITUTE STAFF IN THE YEAR 2004

### I. ORIGINAL PAPERS

1. K. Polkowski, J. Popiolkiewicz, P. Krzeczynski, J. Ramza, W. Pucko, O. Zegrocka-Stendel, J. Boryski, J. S. Skierski, A. P. Mazurek, G. Gryniewicz: „Cytostatic and Cytotoxic activity of synthetic genistein glycosides against human cancer cell lines”; *Cancer Letters*, 203, 59-69, 2004
2. 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*, 799, 217-231, 2004
3. J. Godlewska, K. Badowska-Roslonek, J. Ramza, L. Kaczmarek, W. Peczyńska Czocho, A. Opolski: „New saccharide derivatives of indolo[2,3-b]quinoline as cytotoxic compounds and topoisomerase II inhibitors”; *Radiol. Oncol.* 38(2), 137-144, 2004,
4. K. Kamińska-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, 2/1, 39.
5. W. Pucko, A. Les, W. Szelejewski: „Optimization of the reduction of 5-benzylidenethiazolidine-2,4-dione derivative supported by the reaction response surface analysis: synthesis of pioglitazone hydrochloride”; *Organic Process Research & Development* 2004, 8, 157-162.
6. J. Martynow, M. Krupa, A. Les, A. Kutner, W. Szelejewski: ”Optimization of copper(I)-catalyzed 1,6-conjugate addition of a methyl group to 17 $\beta$ -acetoxy-4,6-estradien-3-one”; *Organic Process Research & Development* 2004, 8, 846-851.
7. V. Molinier, K. Wisniewski, A. Bouchu, J. Fitremann et Y. Queneau: “Transesterification of sucrose in organic medium: study of acyl group migrations”; *J. Carbohydr. Chem.*, 2003, 22, 657-669
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*, 203 (2004) 59.
9. J. M. Sanders, S. Ghosh, J. M. W. Chan, G. Meints, H. Wang, A. M. Raker, Y. Song, A. Colatino, A. Burzyska, P. Kafarski, C.T. Merita, Merita. Oldfield: “Quantitative Structure-Activity Relationship for gamma delta T Cell Activation by Bisphosphonates”; *J. Med. Chem.* 2004, 375-384.
10. G. Gryniewicz, O. Zegrocka-Stendel, W. Pucko, J. Ramza, A. Koscińska, W. Kolodziejewski, K. Wozniak: “X-ray and  $^{13}C$  CP MAS investigations of structure of two genistein derivatives”; *J. Mol. Sci.*, 694, 121 (2004)
11. J. Wietrzyk, M. Mazurkiewicz, J. Madej, S. Dzimira, G. Gryniewicz, C. Radzikowski, A. Opolski: “Genistein alone or combined with cyclophosphamide may stimulate  $^{16}C$  transplantable mouse mammary cancer growth”; *Med. Sci. Monit.*, 10, BR1 (2004)
12. G. Gryniewicz, K. Polkowski, A.P. Mazurek: “Isoflavone conjugates: a structure – function hypothesis”; *Eur. J. Biochem.*, 271, Suppl.1, 149 (2004)
13. J. Wietrzyk, G. Gryniewicz, A. Opolski: “Phytoestrogens in cancer prevention and therapy”; *Anticancer Res.*, 24, 3586 (2004)
14. W. Maruszak, M. G.Schmid, G. Gübitz, E. Ekiert, and M. Trojanowicz: “Separation of Enantiomers by Capillary Elektrophoresis”, *Methods in Molecular Biology*<sup>TM</sup> Volume 243 *Chiral Separations Methods and Protocols* Edited by Gerald, Martin G. Schmid
15. A. Bielejewska, B.K. Glod: „Niby takie same, a jednak inne, czyli o enancjomerach i ich roli w chorobie Parkinsona”; *Aktualności Neurologiczne* Wydanie „Specjalne Choroba Parkinsona postępy w monitorowaniu rozpoznaniu i leczeniu” 275-281 (2004)
16. B.K. Glod, A. Bielejewska: „Chromatograficzne metody oznaczania stresu oksydacyjnego oraz całkowitego potencjału antyoksydacyjnego”; *Farmac. Pol.*, 59 Supplement Antyoksydanty 21-26 (2003)

17. A.E. Koziol M. Glice, J Cybulski, I Wawrzycka-Gorczyca: “ Polymorphic form II of 2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5]benzodiazepine: C<sub>17</sub>H<sub>20</sub>N<sub>4</sub>S”; *Acta Cryst.* (January 2004). vol. 60, no. 1, pp. 066-068
18. W. Wojciechowska, A. Kutner, A. Les, W. Szelejewski: “Dehydration of egzo-hydroxymethyl group in androstane derivative; optimization and scale-up”; *Polish Journal of Applied Chemistry*, 47 (3-4) 63-74, (2004)
19. U. Chmielowiec, A. Les, W. Szelejewski: “Optimization and kinetic model of condensation of secondary amine with uracil derivative in the synthesis of 2-[(1-carbethoxy-4-piperidinyl)(methyl)amino]-1H-pyrimidin-4-one”; *Acta Poloniae Pharmaceutica - Dryg Res.* S102,90-92 (2004)
20. J. Wietrzyk, M. Pelczynska, J. Madej, S. Dzimira, H. Kusnierczyk, A. Kutner, W. Szelejewski, A. Opolski: “Toxicity and antineoplastic effect of (24R)-1,24-dihydroxy- vitamin D<sub>3</sub> (PRI-2191)”; *Steroids* 69, 629-635 (2004)
21. J. Wietrzyk, B. Filip, A. Kutner, W. Szelejewski, A. Opolski: Calcitriol down-regulates  $\alpha\beta 3$  integrin expression in a mouse Lewis lung carcinoma (LLC) and WEHI-3 leukemia cell lines. 3<sup>rd</sup> *Conference on Experimental and Translational Oncology*. Kranjska gora, Slovenia, March 18-21, 2004. Abstract Book p.29.

## II. MONOGRAPHS AND REVIEWS

1. C. Radzikowski, J. Wietrzyk, G. Gryniewicz, A. Opolski: „Genisteina – izoflawonoid soi o zroznicowanym mechanizmie dzialania – implikacje kliniczne w lecznictwie i prewencji chorob nowotworowych”; *Postepy Hig. Med. Dosw.*, 58, 128 (2004)

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

1. 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”; *Chem. Pharm. Bull.*, 52, 192, 2004.
2. R. Andrukiewicz, P. Cmoch, A. Gawel, K. Stalinski: „Stereoselection at the steady state in radical cyclizations of acyclic systems containing one radical acceptor and two precursors in a 1,5-relationship under pseudo-first-order conditions”; *J. Org. Chem.*, 69, 1844, 2004.
3. H. Dodziuk, O.M. Demchuk, A. Bielejewska, W. Kozminski, G. Dolgonos: “A study of multiple complexation of  $\alpha$ -,  $\beta$ - and  $\gamma$ -cyclodextrin: surprisingly differing stoichiometries of  $\beta$ - and  $\gamma$ -cyclodextrin complexes”; *Supromolecular Chemistry* 16 (4) 287-292 (2004)
4. K. Stanczak, A. Wozniak, A. Bielejewska, W. Pakszys, B. K. Glod: „Pomiar calkowitego potencjalu antyoksydacyjnego pacjentow z choroba Parkinsona Aktualnosci Neurologiczne”; Wydanie „Specjalne Choroba Parkinsona postepy w monitorowaniu rozpoznaniu i leczeniu” 227-235 (2004)

## IV. ACCEPTED PAPERS

1. 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.*,
2. A.Les, W. Szelejewski: „Optymalizacja wybranych etapow syntezy substancji Farmaceutycznych”; *Przemysl Chemiczny*
3. B. Szechner, O. Achmatowicz and J. K. Maurin: “A Stereoselective Synthesis of a Chiral Anthracyclinone AB-Synthon from a Carbohydrate Precursor”; *Tetrahedron*
4. K. Filip, M. Oleszczuk, J. Wojcik, N.N. Chung, P.A. Schiller, D. Pawlak, A. Zieleniak, A. Parcinska, E. Witkowska, J.Izdebski: “Cyclic Enkephalin and Dermorphin Analogues Containing a Carbonyl Bridge”; *Journal of Peptide Science*, 10: 000–000 (2004), published online in Wiley InterScience ([www.interscience.wiley.com](http://www.interscience.wiley.com))
5. A. Bielejewska, B.K. Glod: “Separation of Acetic And Trifluoroacetic Acids on RP-HPLC System Using Mobile Phase Containing Ion Interaction Reagent Without Buffer”; *Chemia Analityczna*

6. J. Iskra-Jopa, K. Golembiowska, A. Dziubina, M. Cybulski, B. Duszyńska, Z. Chilmonczyk: „In-vivo effects of the 1,2,4-piperazine derivatives MM5 and MC1, putative 5-HT agonists, on dopamine and serotonin release in rat prefrontal cortex”; *Journal of Pharmacy and Pharmacology*
7. W. Maruszak, L. Wojcik, B. Szostek, M. Trojanowicz: ”Separation and Determination of Perfluorocarboxylic Acids using Capillary Electrophoresis and UV Detection”
8. P. Cmoch, Z. Urbanczyk-Lipkowska, A. Petrosyan, A. Stepien, K. Stalinski: “The  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^{15}\text{N}$  and  $^{117}\text{Sn}$  NMR study of the intramolecular Sn–N interaction in tri- and tetraorganotin compounds containing the chiral 2-(4-isopropyl-2-oxazolinyl)-5-phenyl ligand”; *J. Mol. Struct.*
9. A. Stepien, R. Loska, P. Cmoch, K. Stalinski: “Application of the Radical Cascade of Acyclic Peptide-Base Precursors into Analogues of the type I  $\beta$ -turn”; *Synlett*
10. 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 Asymmetry*