

## IOPC-2006

- B.R. Steele C. Villalonga-Barber, M. Micha-Screttas, C.G. Screttas  
“Selective catalytic carbanionic ethylation of methylphenols. Influence of catalyst and substitution pattern”  
*Tetrahedron Lett.* **2006**, 47, 2093-2097.
- C. Villalonga-Barber, B.R. Steele V. Kovač, M. Micha-Screttas, C.G. Screttas  
“New stable, isolable triaryl methyl based dyes absorbing in the near infrared”  
*J. Organomet. Chem.* **2006**, 691, 2785-2792.
- G. Cravotto, L. Boffa, M. Bia, W. Bonrath, M. Curini and G. A. Heropoulos  
“An Easy Access to Aromatic Azo Compounds under Ultrasound/Microwave Irradiation”  
*Syn Lett*, **2006**, 2605-260.
- S. K. Mastronicolis A. Boura, A. Karaliota, P. Magiatis, N. Arvanitis, C. Litos, A. Tsakirakis, P. Paraskevas, H. Moustaka and G. A. Heropoulos  
“Effect of cold temperature on the composition of different lipid classes of the foodborne pathogen *Listeria monocytogenes*: Focus on neutral lipids”  
*Food Microbiol.* **2006**, 23, 184–194.
- K.A. Vallianatou, I.D. Kostas, J. Holz, A. Börner  
“Me-AnilaPhos: A new chiral phosphine–phosphoramidite ligand for a highly efficient Rh-catalyzed asymmetric olefin hydrogenation”  
*Tetrahedron Lett.* **2006**, 47(45), 7947-7950  
*Selected comments:* (a) “**excellent catalyst**” (a critical review: L. Eberhardt, D. Armspach, J. Harrowfield, D. Matt *Chem. Soc. Rev.* **2008**, 37, 839); (b) “**highly versatile ligand class**” (*ALDRICH*: D. Amoroso et al. *Aldrichimica Acta*, **2008**, 41, 20).
- E.I. Tolis, K.A. Vallianatou, F.J. Andreadaki, I.D. Kostas  
“A new rhodium complex with a nitrogen-containing bis(phosphine oxide) ligand as an efficient catalyst for the hydroformylation of styrene”  
*Appl. Organomet. Chem.* **2006**, 20(5), 335-337.
- I.D. Kostas, G.A. Heropoulos, D. Kovala-Demertz, P.N. Yadav, J.P. Jasinski, M.A. Demertzis, F.J. Andreadaki, G. Vo-Thanh, A. Petit, A. Loupy  
“Microwave-promoted Suzuki-Miyaura cross-coupling of aryl halides with phenylboronic acid under aerobic conditions catalyzed by a new palladium complex with a thiosemicarbazone ligand”  
*Tetrahedron Lett.* **2006**, 47(26), 4403-4407.
- I.D. Kostas, B.R. Steele, A. Terzis, S.V. Amosova, A.V. Martynov, N.A. Makhaeva  
“New Palladium Complexes with S- or Se-Containing Schiff-Base Ligands as Efficient Catalysts for the Suzuki-Miyaura Cross-Coupling Reaction of Aryl Bromides with Phenylboronic Acid under Aerobic Conditions”  
*Eur. J. Inorg. Chem.* **2006**, (13), 2642-2646.

N.G. Oikonomakos, M.N. Kosmopoulou, D.D. Leonidas, E.D. Chrysina, C. Tiraidis, N. Bischler, K.E. Tsitsanou, S.E. Zographos, I.D. Kostas, G. Eisenbrand  
“Indirubin and indigo analogues as potential inhibitors of glycogenolysis: structural basis of glycogen phosphorylase inhibition”. In *Indirubin, the red shape of indigo*, L. Meijer, N. Guyard, L.A. Skaltsounis, G. Eisenbrand (eds.).  
Editions “Life in Progress”, Roscoff, **2006**, Chapter 18, 177-189.

I. Charalampopoulos, V.-I. Alexaki, I. Lazaridis, E. Dermitzaki, N. Avlonitis, C. Tsatsanis, T. Calogeropoulou, A. N. Margioris, E. Castanas, A. Gravanis.  
“G protein-associated, specific membrane binding sites mediate the neuroprotective effect of Dehydroepiandrosterone.”  
*FASEB J.* **2006**, (20), 577-579.

Tsotinis A, Vlachou M, Papahatjis DP, Calogeropoulou T, Nikas SP, Garratt PJ, Piccio V, Vonhoff S, Davidson K, Teh MT, Sugden D.  
“Mapping the melatonin receptor. 7. Subtype selective ligands based on beta-substituted N-acyl-5-methoxytryptamines and beta-substituted N-acyl-5-methoxy-1-methyltryptamines.”  
*J. Med. Chem.* **2006**, 49(12), 3509-19.

Koufaki M., Theodorou E., Galaris D., Nousis L., Katsanou E. S, Alexis M.N.  
“Chroman/catechol hybrids: Synthesis and evaluation of their activity against oxidative stress induced cellular damage.”  
*J. Med. Chem.* **2006**, 49, 300-306

Koufaki M., Kiziridi C., Papazaffiri P., Vassilopoulos A., Varró A., Nagy Z., Farkas A., Makriyannis A.  
“Synthesis and biological evaluation of benzopyran analogues bearing class III antiarrhythmic pharmacophores.”  
*Bioorg. Med. Chem.* **2006**, 14, 6666-6678.

D.P. Papahatjis, T. Kourouli, Victoria Nahmias.  
“A Convenient Preparation of Enantiomerically Pure Esters of trans-Epoxysuccinic Acid.”  
*Letters in Organic Chemistry*, **2006**, 3, 45-47.

Demetris P. Papahatjis, Victoria R. Nahmias, Thanos Andreou, Pusheng Fan, and Alexandros Makriyannis.  
“Structural Modifications of the Cannabinoid Side Chain towards C3-Aryl and 1',1'-Cycloalkyl-1'-Cyano Cannabinoids.”  
*Biorganic and Medicinal Chemistry Letters*. **2006**, 16, 1616-1620.

Thermos K, Papazoglou M, Antoniou K, Mastrodimou N, Panagis G, Vlachou S, Renieri E, Nahmias V, Menissiou A, Gianni M, Kondylis MP, Daifoti-Papadopoulou Z, Papahatjis D, Spyraki C.  
“Pharmacological characterization of novel ligands for CB1 and CB2 cannabinoid receptors.”  
*Acta Pharmacological Sinica*, **2006**, 27: 394-395 Suppl. 1.

M. G. Papadopoulos, H. Reis, A. Avramopoulos, Ş. Erkoç and L. Amirouche,  
“Polarizabilities and second hyperpolarizabilities of Zn<sub>m</sub>Cd<sub>n</sub> clusters.”  
*Mol. Phys.*, **2006**, 104, 2027.

A. Avramopoulos, M. Jabłoński, M. G. Papadopoulos and A. J. Sadlej,  
“Linear and nonlinear electric properties and their dependence on the  
conformation and intramolecular H-bonding: A model study.”  
*Chem. Phys.*, **2006**, 328, 33.

A. Alparone, H. Reis and M. G. Papadopoulos,  
“Theoretical investigation of the (hyper)polarizabilities of pyrrole homologues  
C<sub>4</sub>H<sub>4</sub>XH(=N, P, As, Sb, Bi). A coupled-cluster and density functional theory  
study.”  
*J. Phys. Chem. A*, **2006**, 110, 5909

H. Reis, M. G. Papadopoulos and A. Grzybowski,  
“Computer simulation of the linear and nonlinear optical susceptibilities of p-  
nitroaniline in cyclohexane, 1,4-dioxane, and tetrahydrofuran in quadrupolar  
approximation. II. Local field effects and optical susceptibilities.”  
*J. Phys. Chem. B*, **2006**, 110, 18537.

H. Reis,  
“Problems in the comparison of theoretical and experimental hyperpolarizabilities  
revisited.”  
*J. Chem. Phys.*, **2006**, 125, 014506.

P. Zoumpoulakis, A. Politi, S.G. Grdadolnik, J. Matsoukas, T. Mavromoustakos  
“Structure elucidation and conformational study of V8. A novel synthetic non peptide  
AT<sub>1</sub> antagonist”  
*J. Pharmaceut. Biomed. Anal.* **2006**, 40(5), 1097-1104.

M. K. Keramida, T. Tselios, E. Mantzourani, K. Papazisis, T. Mavromoustakos,  
C. Klaussen, G. Agelis, S. Deraos, H. Habibi, J. Matsoukas  
“Design, Synthesis and Molecular Modelling of a Novel Amide Linked Cyclic GnRH  
Analogue Cyclo(4-9)[Lys<sup>4</sup>,D-Trp<sup>6</sup>,Glu<sup>9</sup>]GnRH: Stimulation of Gonadotropin Gene  
Expression”  
*J. Med. Chem.* **2006**, 49(1), 105-110.

V. Saroglou, S. Xatziantoniou, M. Smyrniotakis, I. Kyrikou, T. Mavromoustakos, A.  
Zompra, V. Magafa, P. Cordopatis, C. Demetzos  
“Synthesis, liposomal formulation and thermal effects on phospholipids bilayers of  
leuprolide”  
*J. Pept. Sci.* **2006**, 12, 43-50.

E.D. Mantzourani, T.V. Tselios, S. Golic Grdadolnik, J.M. Matsoukas, A. Brancale,  
J.A. Platts, T.M. Mavromoustakos  
“A putative bioactive conformation for the altered peptide ligand of myelin basic  
protein and inhibitor of experimental autoimmune encephalomyelitis [Arg<sup>91</sup>, Ala<sup>96</sup>]  
MBP<sub>87-99</sub>”  
*J. Mol. Graph. Mod.* **2006**, 25(1), 17-29.

T. Mavromoustakos, P. Moutevelis-Minakakis, C.G. Kokotos, P. Kontogianni, A. Politi, P. Zoumpoulakis, J. Findlay, A. Cox, A. Balmforth, A. Zoga, E. Iliodromitis  
“Synthesis, binding studies, and in vivo biological evaluation of novel non-peptide antihypertensive analogs”

*Bioorg. Med. Chem.* **2006**, *14*, 4353-4360.

C. Koukoulitsa, I. Kyrikou, C. Demetzos, T. Mavromoustakos

“The Role of the Anticancer Drug Vinorelbine in Lipid Bilayers Using Differential Scanning Calorimetry and Molecular Modeling”

*Chem. Phys. Lipids* **2006**, *144*, 85-95.

E. Matzourani, T. Tselios, S. Dearos, J. Matsoukas, T. Mavromoustakos

“Comparison of proposed bioactive conformations of altered peptide ligands of Myelin Basic Protein (Ala91,96) MBP87-99 and (Arg91, Ala96) MBP87-99 by Spectroscopic and Modelling studies”

*J. Med. Chem.* **2006**, *49*, 6683-6691.

P.R.O. Whittamore, M.S. Addie, S.N.L. Bennett, A.M. Birch, M. Butters, L. Godfrey, P.W. Kenny, A.D. Morley, P.M. Murray, N.G. Oikonomakos, L.R. Otterbein, A.D. Pannifer, J.S. Parker, K. Readman, P.S. Siedlecki, P. Schofield, A. Stocker, M.J. Taylor, L.A. Townsend, D.P. Whalley, J. Whitehouse

“Novel thienopyrrole glycogen phosphorylase inhibitors: Synthesis, in vitro SAR and crystallographic studies”.

*Bioorg. Med. Chem. Lett.* **2006**, *16*, 5567-5571.

E.I. Petsalakis, E.D. Chrysina, C. Tiraidis, T. Hadjiloi, D.D. Leonidas, N.G. Oikonomakos, U. Aich, B. Varghese, D. Loganathan

“Crystallographic studies on N-azidoacetyl- $\beta$ -D-glucopyranosylamine, an inhibitor of glycogen phosphorylase: Comparison with N-acetyl- $\beta$ -D-glucopyranosylamine”.

*Bioorg. Med. Chem.* **2006**, *14*, 5316-5324.

N.G. Oikonomakos, C. Tiraidis, D.D. Leonidas, S.E. Zographos, M. Kristiansen, C.U. Jessen, L. Norskov-Lauritsen, L. Agius

“Iminosugars as potential inhibitors of glycogenolysis: Structural insights into the molecular basis of glycogen phosphorylase inhibition”

*J. Med. Chem.* **2006**, *49*, 5687-5701.

C.M. Lukacs, N.G. Oikonomakos, R.L. Crowther, L.N. Hong, R.U. Kammlott, W. Levin, S. Li, C.M. Liu, D. Lucas-McGady, S. Pietranico, L. Reik

“The crystal structure of human muscle glycogen phosphorylase a with bound glucose and AMP: An intermediate conformation with T-State and R-State features”

*Proteins* **2006**, *63*, 1123-1126.

D.D. Leonidas, T.K. Maiti, A. Samanta, S. Dasgupta, T. Pathak, S.E. Zographos, N.G. Oikonomakos

“The binding of 3'-N-piperidine-4-carboxyl-3'-deoxy-ara-uridine to ribonuclease A in the crystal”

*Bioorg. Med. Chem.* **2006**, *14*, 6055-64.

L.J. Hampson, C. Arden, L. Agius, M. Ganotidis, M.N. Kosmopoulou, C. Tiraidis, Y. Elemes, C. Sakarellos, D.D. Leonidas, N.G. Oikonomakos  
“Bioactivity of glycogen phosphorylase inhibitors that bind to the purine nucleoside site”. *Bioorg. Med. Chem.* **2006**, *14*, 7835-7845.

T. Hadjiloi, C. Tiraidis, E.D. Chrysina, D.D. Leonidas, N.G. Oikonomakos, P. Tsipos, T. Gimisis  
“Binding of oxalyl derivatives of beta-D-glucopyranosylamine to muscle glycogen phosphorylase b”.  
*Bioorg. Med. Chem.* **2006**, *14*, 3872-3882.

E. Anagnostou, M.N. Kosmopoulou, E.D. Chrysina, D.D. Leonidas, T. Hadjiloi, C. Tiraidis, S.E. Zographos, Z. Gyorgydeak, L. Somsak, T. Docsa, P. Gergely, F.N. Kolisis, N.G. Oikonomakos  
“Crystallographic studies on two bioisosteric analogues, N-acetyl-β-D-glucopyranosylamine and N-trifluoroacetyl-β-D-glucopyranosylamine, potent inhibitors of muscle glycogen phosphorylase”.  
*Bioorg. Med. Chem.* **2006**, *14*, 181-189.

## BOOKS

Co-edited by M. G. Papadopoulos  
Title: “*Nonlinear optical properties of matter: From molecules to condensed phases*”. Editors: M. G. Papadopoulos, J. Leszczynski and A. J. Sadlej. Springer **2006**,

## Book chapters

T. Mavromoustakos, M. Zervou, P. Zoumpoulakis  
“Design and Discovery of Novel Antihypertensive Drugs through Conformation and Bioactivity Studies”  
*Frontiers in Medicinal Chemistry* **2006**, *3*, *1*, 87-111.

N.G. Oikonomakos, M.N. Kosmopoulou, D.D. Leonidas, E.D. Chrysina, C. Tiraidis, N. Bischler, K.E. Tsitsanou, S.E. Zographos, I.D. Kostas, G. Eisenbrand,  
“Indirubin, the Red Shade of Indigo”  
L. Meijer, N. Guyard, L. Skaltsounis, G. Eisenbrand (Eds.), **2006**, p. 177