

CURRICULUM VITAE

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2016

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Education

1989 Bachelor of Science Studies - Chemistry (field of expertise Biochemistry) / University of Belgrade

1995 PhD- Institute of Biological Research and Biotechnology, National Hellenic Research Foundation, Athens- University of Patras

Professional and Research Activities

1990-94 PhD studies Institute of Biological Research and Biotechnology National Hellenic Research Foundation, Athens

1994-95 Military service.

1995-2000 Postdoctoral fellowship Laboratory of Biotechnology, School of Chemical Engineering, National Technical University of Athens

1999-2000 Postdoctoral fellowship Institute of Biological Research and Biotechnology National Hellenic Research Foundation, Athens

2001-2008 Assistant Professor of Enzyme Biotechnology Department of Biological Applications and Technologies University of Ioannina

2008-2012 Associate Professor of Enzyme Biotechnology Department of Biological Applications and Technologies University of Ioannina

2012- Professor of Enzyme Biotechnology Department of Biological Applications and Technologies University of Ioannina

2014- Director of Biotechnology Laboratory of Biological Applications and Technologies University of Ioannina

Awards and Fellowships

1991-1994 Scholarship from EU (in the frame of the project BRIDGE) in collaboration with the National Hellenic Research Foundation, for PhD studies

1998-99: Greek National Scholarship Foundation for Postdoctoral studies

2004-2005: Research Fellowship from the Empeirikeion Foundation

Short term visits & sabbaticals

1997 Instituto de Catalisis de Madrid CSIC Spain, Applied Biocatalysis Group

2000 and 2001 Laboratory of Biotransformations, Faculty of Pharmacy, Universidad Complutense de Madrid, Madrid, Spain

2011 Laboratory of Thermodynamics , National Technical university of Athens Greece

2011 Institute of Chemistry & Biochemistry, Dept. of Technical Chemistry & Biotechnology, Ernst-Moritz-Arndt-University Greifswald, Germany

Research filed

Main research interests are in the field of Applied Biocatalysis, Biotransformations and Nanobiotechnology and especially:

a) Development of new “green” bioprocesses using enzymes, enzyme systems, microbial cells and microalgae, for the production of high value products (pharmaceuticals, food additives, fine-chemicals, biofuels etc).

- b) Development of immobilized biocatalytic systems and nanobiocatalytic systems using enzymes and microbial cells that can be applied in biocatalytic processes, biodegradation of pollutants, production of biofuels and biomaterials and for the development of biofuel cells, biosensors and nanodevices.
- c) Production, purification, cloning and characterization of microbial enzymes. Improvement of enzymes properties using enzyme engineering and protein chemistry approaches. Study of the enzyme function-structure relationship in organized nanostructures, nanodispersions and nanomaterials.
- d) Development of bioprocesses for the degradation of organic pollutants and the pre-treatment of wastewater and the production of useful metabolic products and biofuels.
- e) Development of targeted drug and biomolecules delivery systems using modified nanomaterials and organized nanostructures

Current Undergraduate and Postgraduate Teaching at the University of Ioannina, University of Athens and National Technical University of Athens, Greece

Biotechnology

Biochemical Engineering

Enzyme Biotechnology and Engineering

Bioprocess Engineering

Biochemistry

Nanobiotechnology

Diploma and PhD Student supervision

Supervision of 50 diploma thesis projects for BAT -UOI students

PhD Student supervision

Already finished

- 1 Maria Zoumbanioti "Study of immobilized bioactive molecules in non-conventional media: microemulsions and organogels 2002-2007
2. Katerina Tzialla "Development of biocatalytic processes for the selective modification of mastic oil constituents" 2005-2009
3. Maria Katsoura "Biotransformation of natural antioxidants in ionic liquids" 2006-2010
- 4 Ioannis Pavlidis «Biocatalysis in organized nanostructures in non conventional media» 2007-2011
5. Michaela Patila "Enzyme immobilization in nanomaterials" 2011-
- 6 Athena Papadopoulou „Biocatalysis in third generation ionic solvents“ 2013-

Ongoing

- 7 George Orfanakis "Development of nanobiocatalytic systems for the valorization of agroindustrial waste" 2014-
- 8 Alexandra Chatzikonstantinou Biocatalytic systems for the selective modification of natural products for the evaluation of their properties 2015-

Postgraduate student supervision (Master thesis)

- 7 Master Thesis of the University of Ioannina

Other activities

-Member of various Hellenic and European Scientific Societies

-Member of the Organizing and Scientific Committees of National and International Conferences
-Expert Evaluator in National and International Research Projects
-Member of the Editorial board of ISRN Biotechnology
-Member of the Editorial board of Carbon-Based Materials (specialty section of Frontiers in Materials
-Invited speaker, Session Chairman in National and International Conferences
-Referee in international journals (Journal of Molecular Catalysis B: Enzymatic, Applied Biochemistry and Biotechnology, Journal of Chemical Technology and Biotechnology, Biocatalysis and Biotransformation, Enzyme and Microbial Technology, Biotechnology Progress, Journal of Applied and Polymer Science, Process Biochemistry, Biotechnology and Bioengineering, Food Biotechnology, Journal of Medicinal Chemistry, European Food Research and Technology, European Journal of Lipid Science and Technology, Journal of Biochemical Engineering, World Journal of Microbiology and Biotechnology, Bioresource Technology, International Journal of Biological Macromolecules, Langmuir, J Physical Chemistry, Colloids and Surfaces B Biointerphases, Journal of Agricultural and Food Chemistry, Microbial Cell Factories, ChemPlusChem, ChemSusChem, ChemCatChem, ACS Sustainable Chemistry & Engineering, Trends in Biotechnology

Research projects

- 1 Program “Pythagoras 1”, EPEAEK II 2004-2006. Modification of natural products with antioxidant and anti-inflammatory properties using biocatalytic processes-Study of their action on atherothrombosis mechanisms. Coordinator H. Stamatis
2. Program “Leykipos” NTUA 2006-2008 Experimental and theoretical study of the phase equilibrium of sugars and antioxidants in ionic liquids
3. Program PENED 2005-2008 (GSRT). Development and application of biocatalytic processes for the upgrade of mastic and mastic oil value as food additives for prevention of atherogenesis UOI Coordinator H. Stamatis
4. Joint research program Greece-Czech republic 2006-2008 (GSRT) Enzymatic modification of flavonoids—preparation of novel hybrid antioxidants with improved antiradical and anti-inflammatory properties. Coordinator H. Stamatis
5. Program of the Research Committee of the UOI 2008-2010 Study of the structure-activity relationship of lipolytic enzymes in nanodispersions. Application on the development of nano-bioreactors Coordinator H. Stamatis
6. Research Promotion Foundation's Framework Programme For Research, Technological Development and Innovation (RPF'S FP Cyprus) 2009-2011 Soil Recovery from Oil residues at the old Oil refinery area in Larnaca, a pilot project. Coordinator H. Stamatis
- 7 Development of research infrastructure of research units in the University of Ioannina 2010 – 2013 (PEP Epirus)
- 8 Research Promotion Of The Exchange And Scientific Cooperation Between Greece and Germany 2010-2011 (IKY- DAAD) Development of efficient biocatalysts based on enzymes immobilization onto nanomaterials. Coordinator H. Stamatis
- 9 Purification of waste waters with microalgae and utilization of biomass for the production of bioenergy 2012-2015 PER of Epirus (ESPA) Coordinator H. Stamatis
10. Joint research program Greece –Slovakia 2013-2015 Biocatalytic preparation of novel hybrid molecules with improved cardioprotective properties (GSRT)

11. Programme for the Promotion of the Exchange and Scientific Cooperation between Greece and Germany 2015-2016 Development of novel biotechnological tools for the efficient treatment of agroindustrial lignocellulosic wastes (DAAD)

Publication List

1 Phd Thesis

102 Publications in International peer reviewed Journals and Chapters in International Books and Book Series (11)

35 Publications in Proceeding of National and International Conferences

150 Oral and Poster Presentations in National and International Conferences

Total citations > 3300 Google Scholar

h-index : 31 Web of Science, h-index: 35, Google Scholar

PhD Thesis

H. Stamatis «Enzymatic modification of amphiphilic substrates in microemulsions» 1995 PhD Thesis Institute of Biological Research and Biotechnology National Hellenic Research Foundation, Athens- Department of Chemistry, University of Patras

Publications in International peer reviewed Journals

- 1) A. Xenakis, H. Stamatis, A. Malliaris, F.N. Kolisis. Effect of alcohols on the structure of AOT reverse micelles with respect to different enzyme activity. *Progress in Colloid and Polymer Science*, 93, 373-376, 1993.
- 2) H. Stamatis, A. Xenakis, M. Provelegiou F.N. Kolisis Esterification reactions catalyzed by lipases in microemulsions. The role of enzyme localization in relation to its selectivity. *Biotechnology and Bioengineering*, 42, 103-110, 1993.
- 3) H. Stamatis, F.N. Kolisis, A. Xenakis. Enantiomeric selectivity of a lipase from *Penicillium simplicissimum* in the esterification of menthol in microemulsions. *Biotechnology Letters*, 15 (5), 471-476, 1993.
- 4) H. Stamatis, A. Xenakis, U. Menge and F.N. Kolisis. Kinetic study of lipase catalyzed esterification reactions in microemulsions. *Biotechnology and Bioengineering*, 42, 931-937, 1993.
- 5) H. Stamatis, F.N. Kolisis, A. Xenakis, U. Bornscheuer,T. Scheper, U. Menge. *Pseudomonas cepacia* lipase: Esterification reactions in AOT microemulsion systems. *Biotechnology Letters* 15(7), 703-708, 1993.
- 6) U. Bornscheuer, H. Stamatis, A. Xenakis, T. Yamane, F.N. Kolisis. A comparison of different strategies for lipase-catalysed synthesis of partial glycerides. *Biotechnology Letters* 16, 697-702, 1994.

- 7). H. Stamatis, A. Xenakis, F.N. Kolisis, A. Malliaris. Lipase localization in w/o microemulsions studied by fluorescence energy transfer. *Progress in Colloid and Polymer Science*, 97, 253-255, 1994
- 8) H. Stamatis, A. Xenakis, E. Dimitriadis, F.N.Kolisis. Catalytic behavior of *Pseudomonas cepacia* lipase in w/o microemulsions. *Biotechnology and Bioengineering*, 45, 33-41, 1995.
- 9) H. Stamatis, A. Xenakis, F.N.Kolisis. Studies on enzyme reuse and product recovery in lipase catalyzed-reactions in microemulsions. *Annals of the New York Academy of Science*, 750, 237-241, 1995.
- 10) A. Ballesteros, U. Bornscheuer, A. Capewell, D. Combes, J-S. Condoret, K. Koenig, F.N. Kolisis, A. Marty, U. Menge, T. Scheper, H. Stamatis, Enzymes in non-conventional phases. - Review article *Biocatalysis and Biotransformations*, 13, 1-42, 1995.
- 11) J.B. Macris, H. Stamatis and F.N. Kolisis. Microemulsions as a tool for the regioselective lipase-catalysed esterification of aliphatic diols. *Applied Microbiology and Biotechnology*. 46, 521-524, 1996. DOI: 10.1007/s002530050854
- 12) V. Papadimitriou, A. Xenakis, C.T. Cazianis, H. Stamatis, M. Egmond EPR studies of cutinase in microemulsions. *Annals of the New York Academy of Science*, 799, 275-280, 1996.
- 13) H. Stamatis, J. Macris and F.N. Kolisis. Esterification of hydrophilic diols catalysed by lipases in microemulsions. *Biotechnology Letters*, 18, 541-546, 1996.
- 14) S. Avramiotis, H. Stamatis, F.N. Kolisis, P. Lianos, A.Xenakis. Structural studies of lecithin and AOT-based water-in-oil microemulsions in the presence of lipase. *Langmuir*, 12, 6320-6328, 1996.
- 15) S. Avramiotis, H. Stamatis, F.N. Kolisis, A. Xenakis. *Pseudomonas cepacia* lipase localization in lecithin and AOT w/o microemulsions. A fluorescence energy transfer study. *Progress in Colloid and Polymer Science*, 105, 180-183, 1997.
- 16) V. Sereti, H. Stamatis, F.N. Kolisis. Improved stability and reactivity of *Fusarium solani* cutinase in supercritical CO₂ *Biotechnology Techniques* 11, 661-665, 1997.
- 17) C. Tsitsimpikou, H. Stamatis, V. Sereti, H. Daflos and F.N. Kolisis. Acylation of glucose catalysed by lipases in supercritical carbon dioxide. *Journal of Chemical Technology and Biotechnology*, 71, 309-314, 1998.
- 18) H. Stamatis, P. Christakopoulos, D. Kekos, B.J. Makris, F.N. Kolisis. Studies on the synthesis of short-chain geranyl esters catalyzed by *Fusarium oxysporum* esterase in organic solvents. *Journal of Molecular Catalysis B: Enzymatic*, 4, 229-236, 1998 .
- 19) P. Christakopoulos, B. Tzalas, D. Mamma, H. Stamatis, Liadakis G.N., C. Tzia, D. Kekos, F.N. Kolisis, B.J. Makris. Production of an esterase from *Fusarium*

- oxysporum* catalysing transesterification reactions in organic solvents. *Process Biochemistry*, 33(5), 585-594, 1998.
- 20) H. Stamatis, V. Sereti and F.N. Kolisis. Studies on the enzymatic synthesis of sugar esters in organic medium and supercritical carbon dioxide. *Chemical and Biochemical Engineering Quarterly*, 12, 151-156, 1998.
- 21) V. Sereti, H. Stamatis, E. Koukios and F.N. Kolisis. Enzymatic acylation of cellulose acetate in organic media. *Journal of Biotechnology*, 66, 219-223, 1998.
- 22) H. Stamatis and A. Xenakis. Biocatalysis using microemulsion-based polymer gels containing immobilized lipase, *Journal of Molecular Catalysis B: Enzymatic*, 6, 399-406, 1999
- 23) H. Stamatis, A. Xenakis, F.N. Kolisis, Bioorganic reactions in microemulsions: The case of lipase. *Biotechnology Advances*, 17(3), 293-318, 1999. (Invited review)
- 24) A. Xenakis and H. Stamatis. Lipase immobilization on microemulsion-based polymer gels. *Progress in Colloid and Polymer Science*, 112, 132-135, 1999
- 25) H. Stamatis, V. Sereti and F.N. Kolisis. Studies on the enzymatic synthesis of lipophilic derivatives of natural antioxidants, *Journal of the American Oil Chemist's Society*, 76(12), 1505-1510, 1999.
- 26) D.G. Hatzinikolaou, E. Kourentzi, H. Stamatis, P. Christakopoulos, F.N. Kolisis, D. Kekos and B.J. Makris. A novel lipolytic activity by *Rhodotorula glutinis* cells. Production, partial characterization and application in the synthesis of esters. *Journal of Bioscience and Bioengineering*, 88, 36-39, 1999.
- 27) H. Stamatis, E.C. Voutsas, C. Delimitsou, F.N. Kolisis and D. Tassios. Enzymatic production of alkyl esters through lipase-catalyzed transesterification reactions in organic solvents: Solvent effect and prediction of equilibrium conversions. *Biocatalysis and Biotransformation*, 18, 259-269, 2000.
- 28) A. Pastou, H. Stamatis and A. Xenakis Microemulsion-based organogels containing lipase: Application in the synthesis of esters. *Progress in Colloid and Polymer Science* 115, 192-195, 2000
- 29) H. Stamatis, V. Sereti and F.N. Kolisis. Enzymatic synthesis of hydrophilic and hydrophobic derivatives of natural phenolic acids in organic media. *Journal of Molecular Catalysis B: Enzymatic* 11, 323-328, 2001
- 30) V. Sereti, H. Stamatis, C. Pappas, M. Polissiou and F.N. Kolisis Enzymatic acylation of hydroxypropyl cellulose in organic media and determination of the ester formation by Diffuse Reflectance Infrared Fourier Transform (DRIFT) spectroscopy. *Biotechnology and Bioengineering* 72, 495-500, 2001
- 31) A. Kontogianni, V. Skouridou, V. Sereti, H. Stamatis and F.N. Kolisis. Regioselective acylation of flavonoids catalysed by lipase in non-toxic media. *European Journal of Lipid Science and Technology*, 103, 655-660, 2001.

- 32) E.C.Voutsas, H. Stamatis, F.N. Kolisis and D. Tassios. Solvent effect on equilibrium position and initial rate of lipase-catalyzed esterification reactions in organic solvents: Experimental results and prediction capabilities. *Biocatalysis and Biotransformation*, 20, 101-109, 2002.
- 33) Ch. Delimitsou, M. Zoumpanioti, A. Xenakis and H. Stamatis Activity and stability studies of *Mucor miehei* lipase immobilized in novel microemulsion-based organogels *Biocatalysis and Biotransformation*, 20, 319-327, 2002
- 34) E. Franqueville, H. Stamatis, H. Loutrari, A. Fribolet, F.N. Kolisis. Studies on the catalytic behavior of a cholinesterase-like abzyme in an AOT microemulsion system *Journal of Biotechnology*, 97, 177-182, 2002.
- 35) P. Christakopoulos, P. Katapodis, E. Kalogeris, D. Kekos, B.J. Macris, H. Stamatis, H. Skaltsa Antimicrobial activity of acidic xylo-oligosaccharides produced by family 10 and 11 endoxylanases. *International Journal of Biological Macromolecules* 31, 171-175, 2003
- 36) E., Topakas, H. Stamatis, P. Biely , D. Kekos, B.J. Macris , P. Christakopoulos, Purification and characterization of a feruloyl esterase from *Fusarium oxysporum* catalyzing esterification of phenolic acids in ternary water-organic solvent mixtures. *Journal of Biotechnology*, 102, 33-44, 2003
- 37) V. Skouridou, H. Stamatis and F.N. Kolisis Use of essential oils as media for the enantioselective esterification of the monoterpane perillyl alcohol catalyzed by lipase. *European Journal of Lipid Science and Technology*, 105 (3-4), 115-120, 2003.
- 38) E. Topakas, H. Stamatis, M. Mastihubova, P. Biely, D. Kekos, B.J. Macris, P. Christakopoulos Purification and characterization of a feruloyl esterase (FAE-I) from *Fusarium oxysporum* catalyzed transesterification of phenolic acid esters. *Enzyme and Microbial Technology* 33, 729-737, 2003.
- 39) V. Skouridou, H. Stamatis and F.N. Kolisis. Lipase-mediated epoxidation of α -pinene, *Journal of Molecular Catalysis B: Enzymatic*, 21, 67-69, 2003
- 40) Y. Sanakis, D. Mamma, P. Christakopoulos, H. Stamatis Catechol 1,2-Dioxygenase from *Pseudomonas putida* in organic media - An Electron Paramagnetic Resonance study *International Journal of Biological Macromolecules* 33, 101-106, 2003
- 41) A. Kontogianni, V. Skouridou, V. Sereti, H. Stamatis and F.N. Kolisis. Lipase-catalyzed esterification of rutin and naringin with fatty acids of medium carbon. *Journal of Molecular Catalysis B: Enzymatic*, 21, 59-62, 2003.
- 42) V. Skouridou, H. Stamatis and F.N. Kolisis. A study on the process of the lipase-catalyzed synthesis of α -pinene oxide in organic solvents. *Biocatalysis and Biotransformation* 21, 285-290, 2003

- 43) E. Franqueville, H. Loutrari, F. Mellou, H. Stamatis, A. Friboulet, F.N. Kolisis Reverse micelles, a system for antibody-catalysed reactions *Journal of Molecular Catalysis B: Enzymatic* 21 15-17, 2003
- 44) E. Topakas, H. Stamatis, P. Biely, P. Christakopoulos. Purification and characterization of a thermophilic feruloyl esterase from *Sporotrichum thermophile* (*StFAE-A*) catalyzing transesterification of phenolic acid esters. *Applied Microbiology and Biotechnology* 63(6), 686-690, 2004.
- 45) P. Dominguez de Maria, A. Xenakis, H. Stamatis, J. V. Sinisterra Lipase Factor (LF) as a characterization parameter to explain the catalytic activity of crude lipases from *Candida rugosa*, ATCC 14830, free or immobilized in microemulsion based organogels *Enzyme and Microbial Technology* 35 (4), 277-283, 2004.
- 46) V Skouridou, E.D. Chrysina, H. Stamatis, N. Oikonomakos, F. N. Kolisis Kinetic and modelling studies on the lipase catalysed enantioselective esterification of (\pm)-perillyl alcohol *Journal of Molecular Catalysis B: Enzymatic*, 29, 9-12, 2004.
- 47) P. Dominguez de Maria, A. Xenakis, H. Stamatis, J. V. Sinisterra Unexpected reaction profile observed in the synthesis of propyl laurate when using *Candida rugosa* lipases immobilized in microemulsions based organogels. *Biotechnology Letters*, 26, 1517-1520, 2004.
- 48) M.Zoumpanioti, E.Karavas, C.Skopelitis, H.Stamatis, A. Xenakis. Lecithin organogels as model carriers of pharmaceuticals *Progress in Colloid and Polymer Science*, 123, 199-202, 2004.
- 49) F. Mellou, D. Lazari, H. Skaltsa, A.D. Tselepis, F.N. Kolisis, H. Stamatis Biocatalytic preparation of acylated derivatives of flavonoid glycosides enhances their antioxidant and antimicrobial activity *Journal of Biotechnology*, 116, 295-304, 2005
- 50) E. Topakas, C. Vafiadi, H. Stamatis, P. Christakopoulos *Sporotrichum thermophile* type C feruloyl esterase (StFaeC): purification, characterization, and its use for phenolic acid (sugar) ester synthesis. *Enzyme and Microbial Technology*, 36, 729-736, 2005
- 51) M. Zoumpanioti, M. Karali, A. Xenakis, H. Stamatis Lipase biocatalytic processes in surfactant free microemulsion - like ternary systems and related organogels, *Enzyme and Microbial Technology*, 39, 531-539, 2006
- 52) E. Kalogeris, J. Sanakis, D. Mamma, P. Christakopoulos, D. Kekos, H. Stamatis Properties of catechol 1,2-dioxygenase from *Pseudomonas putida* immobilized in calcium alginate hydrogels, *Enzyme and Microbial Technology*, 39, 531-539, 2006
- 53) M.H. Katsoura, A.C. Polydera, L. Tsironis, A.D. Tselepis, H. Stamatis Use of ionic liquids as media for the biocatalytic preparation of flavonoid derivatives with antioxidant potency *Journal of Biotechnology* 123, 491-503, 2006
- 54) M. Zoumpanioti, H. Stamatis, V. Papadimitriou, A. Xenakis Catalytic and spectroscopic studies of lipases in ternary hexane-1-propanol- water microemulsion-like systems *Colloids and Surfaces B: Biointerfaces* 47, 1-9, 2006

- 55) F. Mellou, H. Loutrari, H. Stamatis, C. Roussos, F. N. Kolisis Enzymatic esterification of flavonoids with unsaturated fatty acids. Effect of the novel esters on vascular endothelial growth factor release from K562 cells *Process Biochemistry* 41, 2029-2034, 2006
- 56) M.H. Katsoura , A.C. Polydera, P. Katapodis, F.N. Kolisis, H. Stamatis Effect of different reaction parameters on the lipase-catalyzed selective acylation of polyhydroxylated natural compounds in ionic liquids. *Process Biochemistry* 2007 42, 1326-1334, 2007
- 57) A. A. Tzialla, E. Kalogeris, D. Gournis, Y. Sanakis and H. Stamatis Enhanced catalytic performance and stability of chloroperoxidase from *Caldariomyces fumago* in surfactant free ternary water-organic solvent systems. *Journal of Molecular Catalysis B: Enzymatic* 51 (1-2), pp. 24-35, 2008
- 58) E. Serefoglou, K. Litina, D. Gournis, E. Kalogeris, A.A Tzialla, H. Stamatis, E.Maccallini, M. Lubomska, P. Rudolf. Smectite clays as solid supports for immobilization of β -glucosidase: Synthesis, Characterization and Biochemical properties *Chemistry of Materials*, 20 (12): 4106-4115, 2008
- 59) M. Zoumpanioti, P. Parmaklis, P. Dominguez de Maria, H. Stamatis, J.V. Sinisterra, A. Xenakis. Esterification reactions catalyzed by lipases immobilized in organogels. Effect of temperature and substrate diffusion *Biotechnology Letters* 30 (9), pp. 1627-1631, 2008
- 60) E. Theodosiou, M. H. Katsoura, H. Loutrari, K. Purchartova, V. Kren, F.N. Kolisis H. Stamatis Enzymatic preparation of acylated derivatives of silybin in organic and ionic liquids media and evaluation of their anti-tumor proliferative activity *Biocatalysis and Biotransformations* 27(3): 161-169, 2009
- 61) D. Mamma D. Hatzinikolaou D. Kekos, H. Stamatis E. Kalogeris, Adsorption of major endoglucanase from *Thermoascus aurantiacus* on cellulosic substrates *World J Microbiol Biotechnol.* 25 (5), pp. 781-788, 2009
- 62) E. Xanthakis, S. Magkouta, H. Loutrari, H. Stamatis, C. Roussos, F.N. Kolisis Enzymatic synthesis of perillyl alcohol derivatives and investigation of their antiproliferative growth activity *Biocatalysis and Biotransformation* 27 (3), pp. 170-178, 2009
- 63) I.V. Pavlidis, D. Gournis, G.K. Papadopoulos, H. Stamatis Lipases in Water-in-Ionic Liquid Microemulsions. Structural and Activity Studies *Journal of Molecular Catalysis B: Enzymatic* 60, 50–56, 2009
- 64) M. H. Katsoura, A. C. Polydera, L. D. Tsironis, M.P. Petraki, S. Kostić Rajačić, A. D. Tselepis H. Stamatis Efficient enzymatic preparation of hydroxycinnamates in ionic liquids enhances their antioxidant effect on lipoproteins oxidative modification *New Biotechnology* 26, 83-91, 2009

- 65) A. A Tzialla, A.A. Taha, E. Kalogeris, H. Stamatis Improving the catalytic performance of fungal laccases in monoterpane-based reaction systems *Biotechnology Letters*, 31:1451–1456, 2009
- 66) A. A Tzialla, E. Kalogeris, A. Enotiadis, A.A. Taha, D. Gournis, H. Stamatis Effective immobilization of *Candida antarctica* lipase B in organic-modified clays: Application for the epoxidation of terpenes. *Materials Science and Engineering B* 165 173–177, 2009
- 67) A.A Tzialla, I.V. Pavlidis M Felicissimo, P. Rudolf, D. Gournis, H. Stamatis. Lipase immobilization on smectite nanoclays: Characterization and application to the epoxidation of α -pinene. *Bioresource Technology* 101 1587–1594, 2010
- 68) M. Zoumpanioti, H. Stamatis, Microemulsion-based organogels as matrices for lipase immobilization *Biotechnology Advances* 28, 395–406, 2010
- 69) E. Panteli, P. Saratsioti, H. Stamatis, E. Voutsas, “Solubilities of Cinnamic Acid Esters in Organic Solvents”, *Journal of Chemical Engineering Data*, 55 (2), pp. 745-749 2010.
- 70) E. Xanthakis, E. Theodosiou, S. Magkouta, H. Stamatis, H. Loutrari, C. Roussos, F.N Kolisis, Enzymatic Transformation of Flavonoids and Terpenoids: Structural and Functional Diversity of the Novel Derivatives. *Pure and Applied Chemistry* 82 (1), 1–16, 2010.
- 71) I.V. Pavlidis, T. Tsoufis, A. Enotiadis, D. Gournis, H. Stamatis Functionalized Multi-Wall Carbon Nanotubes for Lipase Immobilization. *Advanced Engineering Materials* 12 (5), pp. B179-B183, 2010
- 72) Zoumpanioti M, Merianou E, Karandreas T, H. Stamatis, Xenakis A Esterification of phenolic acids catalyzed by lipases immobilized in organogels *Biotechnology Letters* 32 (10) 1457-1462
- 73) I.V. Pavlidis, K. Tzafestas and H. Stamatis Water-in-ionic liquid microemulsions-based organogels as novel matrices for enzyme immobilization, *Biotechnology Journal* 5 (8), pp. 805-812, 2010
- 74) Theodosiou E., Loutrari, H., Stamatis H., Roussos C. Kolisis F., Biocatalytic synthesis and antitumor activities of novel silybin acylated derivatives with dicarboxylic acids *New Biotechnology*, 28 (4), pp. 342-348, 2011
- A75) E. Kyriakou, A. Primikyri, P. Charisiadis, M. Katsoura, I. P. Gerohanassis, H. Stamatis, A. G. Tzakos
Unexpected Enzyme-Catalyzed Regioselective Acylation of Flavonoid Aglycones and Rapid Product Screening. *Organic Biomolecular Chemistry* 10 (9) , pp. 1739-1742, 2012

- A76) A. Primikyri, E. Kyriakou, P. Charisiadis, C. Tsiafoulis, H. Stamatis A.G. Tzakos, I.P. Gerothanassis
Fine-Tuning the Diffusion Dimension of -OH Groups for the Application of High Resolution DOSY in Mixture Analysis of Organic Compounds *Tetrahedron* 68 (34) , pp. 6887-6891 , 2012
- A77) I.V. Pavlidis, T. Vorhaben, T. Tsoufis, P. Rudolf, U.T. Bornscheuer, D. Gournis and H. Stamatis
Development of effective nanobiocatalytic systems through the immobilization of hydrolases on functionalized carbon-based nanomaterials. *Bioresource Technology* 115 , pp. 164-171, 2012
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