CURRICULUM VITAE

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Education

1994 Bachelor of Chemical Engineering (School of Chemical Engineering, National University of Athens)

2007 PhD in Biochemical Engineering (School of Chemical Engineering, National University of Athens)

Professional and Research Activities

2007- Postdoctoral fellowship Laboratory of Biotechnology, School of Chemical Engineering, National Technical University of Athens
2010- Lecturer of Biochemical engineering, Department of Biological Applications and Technologies University of Ioannina
2013 Assistant Professor of Biochemical engineering, Department of Biological Applications and Technologies University of Ioannina

Publication List

1 Phd Thesis
***40 Publications in* International peer reviewed Journals**
25 Publications in Proceeding of National and International Conferences
75 Oral and Poster Presentations in National and International Conferences
Total citations ***> 590***
Hirsch (h-factor) ***15***

Main research interests:

1. Production of high value products by microbial cultures (Modeling/Optimization/ Scale-up)
2. Purification and biochemical characterization of industrial enzymes.
3. Biodiesel production by microalgae.
4. Microbial biodegradation/biotransformation of aromatic compounds.

Current Undergraduate Teaching at BAT:
Biochemical Engineering
Bioprocess Engineering

Research Awards and Fellowships:

1999-2002: Scholarships from the National Hellenic Research Foundation for PhD studies

May 2000-August 2000: Scholarship from the European Union for research work in the University of Gende, Biology Physiology and Microbiology Department, Biochemistry Laboratory.

Reviewer:

Journal of Basic Microbiology
Industrial and Engineering Chemistry Research
World Journal of Microbiology and Biotechnology
Carbohydrate Research
Journal of Chemistry

Other activities

-Member of European Federation of Biotechnology in Biochemical Engineering section
-Member of Hellenic Society of Biotechnology, Greek Lipid Forum and Microbiokosmos

Current research projects:

1. **Cleaning wastewater systems by microalgal biomass for the production of third-generation biofuels and high value biochemicals.** *Funding GGET (PAVE), Duration 2011-2014.*
2. **Biotransformation of bioactive phenolic compounds by microalgae**. *Funding Empeirikeion Foundation, Duration 2013-2014.*

Publication List::

1. Bennett, N. A., Ryan, J., Biely, P., Vrsanska, M., Kremnicky, L., & Macris, B. J. et al. (**1998**). Biochemical and catalytic properties of an endoxylanase purified from the culture filtrate of *Thermomyces lanuginosus* ATCC 46882. *Carbohydrate Research, 306*(3), 445-455.
2. Puchart, V., Katapodis, P., Biely, P., Kremnický, L., Christakopoulos, P., & Vršanská, M. et al. (**1999**). Production of xylanases, mannanases, and pectinases by the thermophilic fungus *Thermomyces lanuginosus*. *Enzyme and Microbial Technology, 24*(5-6), 355-361.
3. Cheilas, T., Stoupis, T., Christakopoulos, P., Katapodis, P., Mamma, D., & Hatzinikolaou, D. G. et al. (**2000**). Hemicellulolytic activity of *Fusarium oxysporum* grown on sugar beet pulp. production of extracellular arabinanase. *Process Biochemistry, 35*(6), 557-561.
4. Christakopoulos, P., Katapodis, P., Hatzinikolaou, D. G., Kekos, D., & Macris, B. J. (**2000**). Purification and characterization of an extracellular α-L- arabinofuranosidase from *Fusarium oxysporum. Applied Biochemistry and Biotechnology - Part A Enzyme Engineering and Biotechnology, 87*(2), 127-133.
5. Katapodis, P., Kavarnou, A., Kintzios, S., Pistola, E., Kekos, D., & Macris, B. J. et al. (**2002**). Production of acidic xylo-oligosaccharides by a family 10 endoxylanase from *Thermoascus aurantiacus* and use as plant growth regulators. *Biotechnology Letters, 24*(17), 1413-1416.
6. Katapodis, P., Kintzios, S., Konstas, J., Kekos, D., Macris, B. J., & Christakopoulos, P. (**2003**). Enzymic production of aldopentauronic acid and use as a bioregulator in plant airlift bioreactors. *Journal of Bioscience and Bioengineering, 95*(6), 630-632.

7. Christakopoulos, P., Katapodis, P., Kalogeris, E., Kekos, D., Macris, B. J., & Stamatis, H. et al. (**2003**). Antimicrobial activity of acidic xylo-oligosaccharides produced by family 10 and 11 endoxylanases. *International Journal of Biological Macromolecules, 31*(4-5), 171-175.
8. Kalogeris, E., Christakopoulos, P., Katapodis, P., Alexiou, A., Vlachou, S., & Kekos, D. et al. (**2003**). Production and characterization of cellulolytic enzymes from the thermophilic fungus *Thermoascus aurantiacus* under solid state cultivation of agricultural wastes. *Process Biochemistry, 38*(7), 1099-1104.
9. Katapodis, P., Vardakou, M., Kalogeris, E., Kekos, D., Macris, B. J., & Christakopoulos, P. (**2003**). Enzymic production of a feruloylated oligosaccharide with antioxidant activity from wheat flour arabinoxylan. *European Journal of Nutrition, 42*(1), 55-60.
10. Katapodis, P., Vršanská, M., Kekos, D., Nerinckx, W., Biely, P., & Claeyssens, M. et al. (**2003**). Biochemical and catalytic properties of an endoxylanase purified from the culture filtrate of *Sporotrichum thermophile*. *Carbohydrate Research, 338*(18), 1881-1890.
11. Katapodis, P., Kalogeris, E., Kekos, D., Macris, B. J., & Christakopoulos, P. (**2003**). Production of β-fructofuranosidase from *Sporotrichum thermophile* and its application in the synthesis of fructooligosaccharides. *Food Biotechnology, 17*(1), 1-14.
12. Topakas, E., Katapodis, P., Kekos, D., Macris, B. J., & Christakopoulos, P. (**2003**). Production and partial characterization of xylanase by *Sporotrichum thermophile* under solid-state fermentation. *World Journal of Microbiology and Biotechnology, 19*(2), 195-198.
13. Vardakou, M., Katapodis, P., Samiotaki, M., Kekos, D., Panayotou, G., & Christakopoulos, P. (**2003**). Mode of action of family 10 and 11 endoxylanases on water-unextractable arabinoxylan. *International Journal of Biological Macromolecules, 33*(1-3), 129-134.
14. Katapodis, P., Kalogeris, E., Kekos, D., Macris, B. J., & Christakopoulos, P. (**2004**). Biosynthesis of fructo-oligosaccharides by *Sporotrichum thermophile* during submerged batch cultivation in high sucrose media. *Applied Microbiology and Biotechnology, 63*(4), 378-382.
15. Vardakou, M., Katapodis, P., Topakas, E., Kekos, D., Macris, B. J., & Christakopoulos, P. (**2004**). Synergy between enzymes involved in the degradation of insoluble wheat flour arabinoxylan. *Innovative Food Science and Emerging Technologies, 5*(1), 107-112.
16. Katapodis, P., Christakopoulos, P. (**2004)**. Induction and partial characterization of intracellular β-fructofuranosidase from *Thermoascus aurantiacus* and its application in the synthesis of 6-kestose. *World Journal of Microbiology and Biotechnology 20* (7), 667-672.
17. Katapodis P., & Christakopoulos P. (**2005**). Xylanases as a tool for the production of novel phytopharmaceuticals. *Nutracos* 2, 1.7-21.
18. Katapodis, P., Christakopoulou, V., & Christakopoulos, P. (**2006**). Optimization of xylanase production by *Sporotrichum thermophile* using corn cobs and response surface methodology. *Engineering in Life Sciences, 6*(4), 410-415.
19. Katapodis, P., Christakopoulou, V., & Christakopoulos, P. (**2006**). Optimization of xylanase production by *Thermomyces lanuginosus* in tomato seed meal using response surface methodology. *World Journal of Microbiology and Biotechnology, 22*(5), 501-506.

20. Katapodis, P., Nerinckx, W., Claeyssens, M., & Christakopoulos, P. (**2006**). Purification and characterization of a thermostable intracellular β-xylosidase from the thermophilic fungus *Sporotrichum thermophile*. *Process Biochemistry, 41*(12), 2402-2409.
21. Nacos, M. K., Katapodis, P., Pappas, C., Daferera, D., Tarantilis, P. A., & Christakopoulos, P. et al. (**2006**). Kenaf xylan - A source of biologically active acidic oligosaccharides. *Carbohydrate Polymers, 66*(1), 126-134.
22. Katapodis, P., Christakopoulou, V., Kekos, D., & Christakopoulos, P. (**2007**). Optimization of xylanase production by *Chaetomium thermophilum* in wheat straw using response surface methodology. *Biochemical Engineering Journal, 35*(2), 136-141.
23. Katsoura, M. H., Polydera, A. C., Katapodis, P., Kolisis, F. N., & Stamatis, H. (**2007**). Effect of different reaction parameters on the lipase-catalyzed selective acylation of polyhydroxylated natural compounds in ionic liquids. *Process Biochemistry, 42*(9), 1326-1334.
24. Petroutsos, D., Katapodis, P., Christakopoulos, P., & Kekos, D. (**2007**). Removal of p-chlorophenol by the marine microalga *Tetraselmis marina*. *Journal of Applied Phycology, 19*(5), 485-490.
25. Petroutsos, D., Wang, J., Katapodis, P., Kekos, D., Sommerfeld, M., & Hu, Q. (**2007**). Toxicity and metabolism of p-chlorophenol in the marine microalga *Tetraselmis marina*. *Aquatic Toxicology, 85*(3), 192-201.
26. Katapodis P., Moukouli M., Christakopoulos P. (**2007**). Biodegradation of indole at high concentration by persolvent fermentation with the thermophilic fungus *Sporotrichum thermophile*. *International Biodeterioration and Biodegradation 60* (4), 267-272.
27. Petroutsos, D., Katapodis, P., Samiotaki, M., Panayotou G., & Kekos D. (**2008**) Detoxification of 2,4-dichlorophenol by the marine microalga *Tetraselmis marina*. *Phytochemistry 69*(3), 707-714.
28. Xiros C., Topakas, E., Katapodis, P. & Christakopoulos, P. (**2008**). Hydrolysis and fermentation of brewer's spent grain by *Neurospora crassa*. Bioresource Technology. *Bioresource Technology 99*(13), 5427-5435.
29. Katapodis P., & Christakopoulos P., (**2008**). Enzymic production of feruloyl xylooligosaccharides from corn cobs by a family 10 xylanase from *Thermoascus aurantiacus*. *LWT - Food Science and Technology, 41*(7), 1239-1243.
30. Xiros C., Topakas, E., Katapodis, P. & Christakopoulos, P. (**2008**). Evaluation of Fusarium oxysporum as an enzyme factory for the hydrolysis of brewer's spent grain with improved biodegradability for ethanol production. *Industrial Crops and Products 28*(2), 213-224.
31. Katsaros G.I., Katapodis P., Taoukis P.S. (**2009**). High hydrostatic pressure inactivation kinetics of the plant proteases ficin and papain. *Journal of Food Engineering, 91*(1), 42-48.
32. Katsaros G.I., Katapodis P., Taoukis P.S. (**2009**). Modeling the Effect of Temperature and High Hydrostatic Pressure on the Proteolytic Activity of kiwi fruit juice. *Journal of Food Engineering 94*(1), 40-45.
33. Xiros, C., Katapodis, P., Christakopoulos, P. (**2009**). Evaluation of *Fusarium oxysporum* cellulolytic system for an efficient hydrolysis of hydrothermally treated wheat straw. *Bioresource Technology 100*(21), 5362-5365.

34. Gogou, E., Katapodis, P., Christakopoulos, P., Taoukis, P.S. (**2010**). Effect of water activity on the thermal stability of *Thermomyces lanuginosus* xylanases for process time-temperature integration. *Journal of Food Engineering 100* (4), 649-655.
35. Papaspyridi, L.-M., Katapodis, P., Gonou-Zagou, Z., Kapsanaki-Gotsi, E., Christakopoulos, P. (**2010**). Optimization of biomass production with enhanced glucan and dietary fibres content by *Pleurotus ostreatus* ATHUM 4438 under submerged culture. *Biochemical Engineering Journal 50* (3), 131-138.
36. Gogou, E., Katapodis, P., Taoukis, P.S. (**2010**). High pressure inactivation kinetics of a *Thermomyces lanuginosus* xylanase evaluated as a process indicator. *Journal of Food Science 75* (6), E379-E386.
37. Xiros, C., Katapodis, P., Christakopoulos, P. (**2011**). Factors affecting cellulose and hemicellulose hydrolysis of alkali treated brewers spent grain by Fusarium oxysporum enzyme extract. *Bioresource Technology* 102 (2), 1688-1696.
38. Papaspyridi, L.-M., Katapodis, P., Gonou-Zagou, Z., Kapsanaki-Gotsi, E., Christakopoulos, P. (**2011**). Growth and biomass production with enhanced β-glucan and dietary fibre contents of Ganoderma australe ATHUM 4345 in a batch-stirred tank bioreactor. *Engineering in Life Sciences* 11 (1), 65-74.
39. Papaspyridi L. -M., Sinanoglou2V. J., Strati I. F., 3, Katapodis P., Christakopoulos P. (**2012**). Fatty acid profile of Pleurotus ostreatus and Ganoderma australe grown naturally and in a batch bioreactor. *Acta Alimentaria* in press.
40. Alexandrakis Z., Katsaros G., Stavros P., Katapodis P., Nounesis G., Taoukis P. (**2013**). Comparative Structural Changes and Inactivation Kinetics of Pectin Methylesterases from Different Orange Cultivars Processed by High Pressure. *Food and Bioprocess Technology* April in press