

Βιογραφικό σημείωμα

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ΕΚΠΑΙΔΕΥΣΗ

2002 – 2006 Γεωπονικό Πανεπιστήμιο Αθηνών (ΓΠΑ)
Τμήμα Επιστήμης και Τεχνολογίας Τροφίμων
Διδακτορικό Δίπλωμα Γεωπονικών Επιστημών
Επιστημονικό πεδίο ‘Μικροβιολογία Τροφίμων’ (Άριστα)

1998 – 1999 University of SUSSEX (Αγγλία)
Μεταπτυχιακό Δίπλωμα Ειδίκευσης (MSc) στη Βιοχημεία

1991 – 1998 Γεωπονικό Πανεπιστήμιο Αθηνών (ΓΠΑ)
Πτυχίο Επιστήμης και Τεχνολογίας Τροφίμων.
Βαθμός Πτυχίου 7.77 (Λίαν Καλώς, 2^{ος} στη σειρά αποφοίτησης)

ΣΥΜΜΕΤΟΧΗ ΣΕ ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ (ΤΡΕΧΟΝΤΑ)

ΘΑΛΗΣ (2012-2015) Genome sequencing and characterization of *Streptococcus macedonicus*, *Streptococcus thermophilus*, *Lactobacillus delbrueckii* subsp. *lactis* and *Lactobacillus acidipiscis*.
Physiological, evolutionary and technological implications

ΕΛΛΗΝΟΓΑΛΛΙΚΗ ΣΥΝΕΡΓΑΣΙΑ (2010-2012) Διερεύνηση του μηχανισμού της βακτηριοκτόνου δράσης του αντιμικροβιακού πεπτιδίου Μασεδοσίνη που παράγεται από το *Streptococcus macedonicus* ACA-DC 198

ΥΠΟΤΡΟΦΙΕΣ

- 2002 – 2006** Υποτροφία ‘Ηράκλειτος’ (ΥΠΕΠΘ) για την εκπόνηση Διδακτορικής διατριβής
- 2006** Υποτροφία FEMS για τη συμμετοχή στο διεθνές συνέδριο ‘2nd FEMS Congress of European Microbiologists’ (Μαδρίτη)
- 2005** Υποτροφία FEMS Young Scientist Meeting Grant για τη συμμετοχή στο διεθνές συνέδριο ‘Analysis of Microbial Cell at the Single Cell Level’ (Αυστρία)

ΕΙΔΙΚΗ ΕΚΠΑΙΔΕΥΣΗ

Workshop on Functional and Structural Proteomics, 6-7 October 2011, Pasteur Institute, Athens, Greece

27th Annual course in Flow Cytometry, Research Methods and Applications, 12-18 June 2004, Bowdoin College, Brunswick, Maine, USA

Applications of Light microscopy in Biomedical Research and Medical Diagnosis, 17-22 May 2004, Hellenique Pasteur Institute, Greece

ΚΡΙΤΗΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ

Applied and Environmental Microbiology (Member of the Editorial Board 2011-2013)

International Journal of Food Microbiology

Applied Microbiology and Biotechnology

Journal of Applied Microbiology

Molecular Biotechnology

LWT - Food Science and Technology

Dairy Science and Technology

International Dairy Journal

Annals of Microbiology

World Journal of Microbiology and Biotechnology

Journal of Basic Microbiology

Chiang Mai Journal of Science

African Journal of Biotechnology

ΣΥΓΓΡΑΦΗ ΒΙΒΛΙΩΝ

Papadimitriou K. and E. Tsakalidou 'Stress responses of lactic acid bacteria' Springer Science & Business Media, LLC, New York (2011)

ΔΗΜΟΣΙΕΥΣΕΙΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΑ ΠΕΡΙΟΔΙΚΑ ΜΕ ΚΡΙΤΕΣ

Papadimitriou K., S. Ferreira, N.C. Papandreou, E. Mavrogonatou, P. Supply, B. Pot and E. Tsakalidou (2012) Complete genome sequence of the dairy isolate *Streptococcus macedonicus* ACA-DC 198 (Accepted in Journal of Bacteriology)

Asteri I.A., E. Boutou, R. Anastasiou, B. Pot, C.E. Vorgias, E. Tsakalidou and **K. Papadimitriou** (2011) *In silico* evidence for the horizontal gene transfer of the σ^B -regulated in Gram-positive bacteria *gsiB* to lactic acid bacteria. Applied and Environmental Microbiology 77, 3526-3531

Papadimitriou K., I.A. Asteri, E. Boutou, B. Pot, C.E. Vorgias and E. Tsakalidou (2011) Comparative and evolutionary analysis of plasmid pREN isolated from *Lactobacillus rennini*, a novel member of the theta-replicating pUCL287 family.. FEMS Microbiology Letters 318, 18-26

Zoumpopoulou G., **K. Papadimitriou**, M. G. Polissiou, P.A. Tarantilis and E. Tsakalidou (2010) Fourier transform infrared spectroscopy reveals changes in the cellular composition of *Salmonella enterica* serovar Typhimurium in the presence of antimicrobial compound(s) of *Lactobacillus* strains. International Journal of Food Microbiology 144, 202-207

Maragkoudakis P. A., K. C. Mountzouris, G. Zoumpopoulou, C. Rosu, **K. Papadimitriou**, E. Dalaka, A. Hadjipetrou, G. Theofanous, G. P. Strozzi, N. Carlini, G. Zervas and E. Tsakalidou (2009) Feed supplementation of *L. plantarum* PCA 236 modulates gut flora and milk fatty acid composition in dairy goats. International Journal of Food Microbiology 141 Suppl 1:S109-16

Papadimitriou K., I. A. Asteri, E. Boutou, R. Anastasiou, B. Pot, C. E. Vorgias and E. Tsakalidou (2010) Characterization of pLAC1, a cryptic plasmid isolated from *Lactobacillus acidipiscis* and comparative analysis with its related plasmids. International Journal of Food Microbiology 141, 222-8

Papadimitriou K., E. Boutou, G. Zoumpopoulou, P. A. Tarantilis, M. Polissiou, C. E. Vorgias and E. Tsakalidou (2008) RNA arbitrarily primed PCR and Fourier Transform Infrared Spectroscopy

reveal plasticity in the acid tolerance response of *Streptococcus macedonicus*. *Applied and Environmental Microbiology* 74, 6068-6076

Papadimitriou K., H. Pratsinis, G. Nebe-von-Caron, D. Kletsas and E. Tsakalidou (2007) Acid tolerance of *Streptococcus macedonicus* assessed by flow cytometry and single cell sorting. *Applied and Environmental Microbiology* 73, 465-476

Papadimitriou K., H. Pratsinis, G. Nebe von Caron, D. Kletsas and E. Tsakalidou (2006) Rapid assessment of the physiological status of *Streptococcus macedonicus* by flow cytometry and fluorescence probes. *International Journal of Food Microbiology* 111, 197-205

Caspari T., M. Dahnel, G. Kanter-Smoler, HD. Lindsay, K. Hofmann, **K. Papadimitriou**, P. Sunnerhagen and AM. Carr (2000). Characterization of *Schizosaccharomyces pombe* Hus1: a PCNA-related protein associates with Rad1 and Rad9. *Molecular Cell Biology* 20(4), 1254-62

Tsakalidou E., R. Anastasiou, **K. Papadimitriou**, E. Manolopoulou and G. Kalantzopoulos (1998) Purification and characterization of an intracellular X-prolyl-dipeptidyl aminopeptidase from *Streptococcus thermophilus* strain ACA-DC 4. *Journal of Biotechnology* 59, 203-211

ΑΝΑΚΟΙΝΩΣΕΙΣ

Διεθνείς

Manolopoulou E., M. Georgalaki, R. Anastasiou, M. Papadeli, A. Aktypis, G. Zoumpopoulou, P. Maragoudakis, I. Asteri, **K. Papadimitriou**, G. Kalantzopoulos and E. Tsakalidou (2012) The ACA-DC Greek Collection of microorganisms. 1st International Conference of the Worldwide Traditional Cheeses Association, Ragusa, Italy

Tsakalidou E., R. Anastasiou, M. Papadelli, G. Zoumpopoulou, P. Maragoudakis, M. Georgalaki and **K. Papadimitriou** (2011) *Streptococcus macedonicus* produces the lantibiotic Macedocin when grown in milk - From biosynthesis to applications. 1st International Conference on Microbial Diversity: Environmental Stress and Adaptation, Milan, Italy

Tsakalidou E., R. Anastasiou, E. Boutou, C.E. Vorgias and **K. Papadimitriou** (2011) Osmotic stress resistant mutants of *Streptococcus macedonicus* preserve their ability to produce the bacteriocin peptide Macedocin under hypersomotic conditions in contrast to the wild-type. 10th Symposium on Lactic Acid Bacteria, Egmond aan Zee, The Netherlands

Papadimitriou K., I. A. Asteri, E. Boutou, R. Anastasiou, B. Pot, C.E. Vorgias and E. Tsakalidou (2011) *In silico* evidence for the horizontal gene transfer of *gsiB*, a σ B-regulated gene in Gram positive bacteria, to lactic acid bacteria. 10th Symposium on Lactic Acid Bacteria, Egmond aan Zee, The Netherlands

Papadimitriou K., R. Anastasiou, E. Boutou, C.E. Vorgias and E. Tsakalidou (2010) Genetically acquired osmotic stress resistance of *Streptococcus macedonicus* results in sustained production of the bacteriocin peptide Macedocin under hyperosmotic conditions. 1st International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology, Thessaloniki, Greece

Asteri I.A., E. Boutou, R. Anastasiou, B. Pot, C.E. Vorgias, E. Tsakalidou and **K. Papadimitriou** (2010) *In silico* evidence for the horizontal gene transfer of the σ B-regulated in Gram-positive bacteria *gsiB* to lactic acid bacteria. 1st International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology, Thessaloniki, Greece

Papadimitriou K., E. Boutou, H. Pratsinis, G. Zoumpopoulou, P. A. Tarantilis, M. Polissiou, D. Kletsas, C. E. Vorgias and E. Tsakalidou (2008) Diversity of the Acid Tolerance Response of *Streptococcus macedonicus*. 9th FEMS Symposium on Lactic Acid Bacteria, Egmond aan Zee, The Netherlands

Papadimitriou K., E. Boutou, G. Zoumpopoulou, P. A. Tarantilis, M. Polissiou, C. E. Vorgias and E. Tsakalidou (2008) RNA arbitrarily primed PCR and Fourier Transform Infrared Spectroscopy reveal plasticity in the acid tolerance response of *Streptococcus macedonicus*. 33rd FEBS Congress & 11th IUBMB Conference, Athens, Greece

Boutou E., **K. Papadimitriou**, C. Paliakassis, V. Pappa, S. Gagos, H-W Stuerzbecher and C E. Vorgias (2008) Analysis of structure – function relationship of the key DNA repair and recombination factor rad51. FEBS Congress & 11th IUBMB Conference, Athens, Greece

Manolopoulou E., M. Georgalaki, R. Anastasiou, M. Papadeli, A. Aktypis, G. Zoumpopoulou, P. Maragoudakis, I. Asteri, K. Papadimitriou, G. Kalantzopoulos and E. Tsakalidou (2007) The ACA-DC Greek Collection of microorganism. The 11th International Conference on Culture Collections, Goslar, Germany

Papadimitriou K., Zoumpopoulou G., Tarantilis P., Polisiou M. and E. Tsakalidou (2006) Discrimination of acid tolerant phenotypes of *Streptococcus macedonicus* by Fourier Transform

Infrared Spectroscopy and Principal Component Analysis. The 20th International ICFMH Symposium. Food safety and food biotechnology: diversity and global impact, Bologna, Italy

Papadimitriou K., H. Pratsinis, G. Nebe-von-Caron, D. Kletsas and E. Tsakalidou (2006) Multiparameter flow cytometry and single cell sorting as tools for the study of bacterial stress physiology. 2nd International Congress on Bioprocesses in Food Industries, Patras, Greece

Papadimitriou K., H. Pratsinis, D. Kletsas and E. Tsakalidou (2006) Adaptation of *S. macedonicus* to acidic environments involves up-regulation of both F-ATPase and glucose specific PEP-PTS transporter. 2nd FEMS Congress of European Microbiologists, Madrid, Spain

Papadimitriou K., H. Pratsinis, D. Kletsas and E. Tsakalidou (2005) Application of flow cytometry and fluorescence probes to illustrate the acid stress physiology of *Streptococcus macedonicus*. 8th FEMS Symposium on Lactic Acid Bacteria, Egmond aan Zee, The Netherlands

Papadimitriou K., H. Pratsinis, D. Kletsas and E. Tsakalidou (2005) Insight of *Streptococcus macedonicus* physiology under acid stress assessed by flow cytometry. 3rd International Conference on Analysis of Microbial Cells at the Single Cell Level, Semmering, Austria

Εθνικές

Tsakalidou E., M. Papadelli, R. Anastasiou, G. Zoumpopoulou, P. Maragkoudakis, **K. Papadimitriou** and M. Georgalaki (2011) *Streptococcus macedonicus* - a multifunctional strain isolated from cheese. 62nd Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens

Georgalaki M., **Papadimitriou K.**, Anastasiou R., Haritou V., Van Driessche G., Devreese B., Tsakalidou E. (2011) Macedovicin, a second food-grade lantibiotic produced by *Streptococcus macedonicus* ACA-DC 198. 62nd Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens

Asteri I.A., Boutou E., Anastasiou R., Pot B., Vorgias C.E., Tsakalidou E. and **Papadimitriou K.** (2010) Characterization of plasmid pREN isolated from *Lactobacillus rennini*, a novel member of the theta-replicating pUCL287 family. 61st Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Alexandroupoli

Asteri I.A. Boutou E., Vorgias C.E., Tsakalidou E. and **Papadimitriou K.** (2010) Identification of mannose and sorbose as novel osmolytes for *Lactobacillus acidipiscis*. 61st Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Alexandroupoli

- Papadimitriou K.**, R. Anastasiou, E. Boutou, K. Vorgias and E. Tsakalidou (2009) Osmotic stress-resistant mutants of *S. macedonicus* preserve their ability to produce the bacteriocin peptide macedocin under hyperosmotic conditions. 60st Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens
- Asteri I. A., **K. Papadimitriou**, E. Boutou, R. Anastasiou, K. Vorgias and E. Tsakalidou (2009) Sequencing and characterization of the novel cryptic plasmid pPS1 carrying a general stress protein isolated from *Pediococcus pentosaceus*. 60st Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens
- Boutou E., **K. Papadimitriou**, V. Pappa, H-W Stürzbecher and C. Vorgias (2009) Rad51-m6, a “dominant negative” form of Rad51 recombinase, alters cell cycle progression via modifications in p21^{waf1}, p53 and BRCA1 expression, in MCF-7 mammary carcinoma cells. 60st Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens
- Asteri I.A., **K. Papadimitriou**, E. Boutou, C.E. Vorgias and E. Tsakalidou (2008) Differential gene expression of *Lactobacillus acidiphiscis* under osmotic stress conditions assessed by RNA arbitrarily primed PCR. 1st National MicroBioKosmos (MBK) Conference, Athens
- Manolopoulou E., M. Georgalaki, R. Anastasiou, M. Papadeli, A. Aktypis, G. Zoumpopoulou, P. Maragoudakis, I. Asteri, **K. Papadimitriou**, G. Kalantzopoulos and E. Tsakalidou (2008) The ACA-DC Greek Collection of microorganisms. 1st National MicroBioKosmos (MBK) Conference, Athens
- Boutou E., **K. Papadimitriou**, C. Paliakassis, V. Pappa, H-W Stuerzbecher and C E. Vorgias (2008) Single amino-acid residue substitution of Rad51 strongly affect its behaviour in carcinoma cells. 30th Scientific Conference of Hellenic Association for Biological Sciences, Thessaloniki
- Boutou E., **K. Papadimitriou**, V. Pappa, H-W. Stuerzbecher and C.E. Vorgias (2007) Single amino acids substitutions of RAD51 recombinase result in prominent alteration in its sub-cellular localization and cell cycle progression of mammary carcinoma cells. 59th Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens
- Papadimitriou K.**, E. Boutou, C.E. Vorgias and E. Tsakalidou (2006) Identification of acid stress responsive genes of *Streptococcus macedonicus* by RNA Arbitrarily Primed PCR. 58th Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Patras

Papadimitriou K., H. Pratsinis, D. Kletsas and E. Tsakalidou (2004) Adaptive response of *Streptococcus macedonicus* to low pH assessed by two-color flow cytometry. 56th Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Larissa

Papadimitriou K., H. Pratsinis, D. Kletsas and E. Tsakalidou (2003) Rapid assessment of the physiological status of *Streptococcus macedonicus* by two-color flow cytometry. 55th Meeting of the Hellenic Society of Biochemistry and Molecular Biology, Athens