

Athanasios Goulas
MSc, PhD Food Technologist

PERSONAL DETAILS

Work address: Alexander Technological Educational Institute of
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PROFESSIONAL EXPERIENCE

Dec. 2018 to current day **Assistant Professor**, Alexander Technological Educational Institute of Thessaloniki (A.T.E.I.), School of Food Technology.

May 2008 to Dec. 2018 **Technical Control & Metrology Dept** - Commerce Division of Thessaloniki Prefecture, Central Macedonia.

Oct. 2009 to Feb. 2013 **Lab Assistant**, Alexander Technological Educational Institute of Thessaloniki (A.T.E.I.), School of Food Technology.

Jan. 2007 to Apr. 2008 **Technical Development Specialist** Clasado BioSciences (UK)

Oct. 2003 to Dec. 2006 **Research Associate**, Reading University, School of Food Biosciences (UK).

Mar. 1997 to Feb. 1999 **Sub-lieutenant**, Greek Army.

EDUCATION – PRACTICAL TRAINING

Oct. 2000 to Sep. 2003 **PhD** - Reading University School of Food Biosciences (UK).

Oct. 1999 to Oct. 2000 **MSc** – Food Technology Quality Assurance Option, Reading University School of Food Biosciences (UK).

Oct. 1992 to Jan. 1997 **BSc** – Food Technology, Alexander Technological Educational Institute of Thessaloniki (A.T.E.I.), School of Food Technology.

Mar. 1996 to Sep. 1996 **Practical Training Erasmus** - Netherlands Dairy Research Institute – NIZO (The Netherlands).

FURTHER QUALIFICATIONS

- Aug. 1993** **German** - Zertifikat Deutsch als Fremdsprache, Goethe Institut
- Dec. 1995** **English** - First Certificate in English του Πανεπιστημίου του Cambridge
- Jun. 2000** **Royal Institute of Public Health certificate on HACCP principles and application (UK).**
- Jul. 2004** **Food Safety Management Systems Auditor/Lead Auditor**
Food Industry Training Reading Scientific Service Ltd, (UK).
- Sep. 2007** **ECDL European Computer Driving License**
- Nov. 2008** **Hellenic Food Authority training program, «Official control of plant products».**
- Feb. 2009** **Hellenic Food Authority training program, «General principles of food safety management systems auditing (FSMS – HACCP)».**
- Dec. 2010** **Hellenic Food Authority training program, «Official control of milk products».**
- Mar. 2012** **Hellenic Food Authority training program «Legal requirements of the official market control – preliminary investigation procedure».**
- Jun. 2012** **Hellenic Food Authority training program «Rapid Alert System for Food and Feed (RASFF) – Management of emergency situations».**

SCHOLARSHIPS

Scholarship from the State Scholarship Foundation of Greece from September 1999 to March 2003.

PATENTS GRANTED

1. Inventors: **Goulas, A.K.**, Tzortzis, G. (2007). *Process for the production of oligosaccharides*, Pub.No.: WO/2007/054459.
2. Inventors: Tzortzis, G., **Goulas, A.K.**, Goulas, T. (2007). *Alpha-Galactosidase from Bifidobacterium bifidum and its use*, Pub.No.: WO/2007/071987.
3. Inventors: Tzortzis, G., **Goulas, A.K.**, Goulas, T. (2007). *Galactosidase with alpha-galactosyltransferase activity*, Pub.No.: WO/2007/088324.
4. Inventors: Tzortzis, G., **Goulas, A.K.**, Goulas, T. (2007). *Beta-Galactosidase with transgalactosylating activity*, Pub.No.: WO/2007/110619.

CONFERENCE PRESENTATIONS AND PUBLICATIONS

- 2002** Grandison, A.S., **Goulas, A.** & Rastall, R.A. (2002). The use of dead-end and cross-flow nanofiltration to purify prebiotic oligosaccharides from reaction mixtures. *Songklanakar Journal of Science and Technology*, **24**, pp915-928.

CONFERENCE PRESENTATIONS AND PUBLICATIONS

Mar. 2006 **Conference presentation** «*Membrane separations for the production and fractionation / purification of enzymatically synthesized oligosaccharides*» Society of Chemical Industry (SCI).

PARTICIPATION IN RESEARCH PROJECTS

Nov. 2008 to Oct. 2010 **Research Associate** «*Isolation and physicochemical characterization of kefir polysaccharides*».

Jun. 2013 to Aug 2015 **Research Associate** «*Novel applications of the kefir production technology*».

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PUBLICATIONS

- 1.** Goulas, A., Kapasakalidis, P., Sinclair, H.R., Grandison, A.S. & Rastall, R.A. (2002). Purification of Oligosaccharides by Nanofiltration. *Journal of Membrane Science*, **209**, pp321-335.
- 2.** Goulas, A., Grandison, A.S. & Rastall, R.A. (2003). Fractionation of Oligosaccharides by Nanofiltration, *Journal of the Science of Food and Agriculture*, **83**, pp675-680.
- 3.** Goulas, A., Fisher, D.A., Grimble, G.K., Grandison, A.S. & Rastall, R.A. (2004). Synthesis of Isomaltooligosaccharides and Oligodextrans by the Combined Use of Dextranucrase and Dextranase. *Enzyme and Microbial Technology*, **35**, pp327-338.
- 4.** Goulas, A., Cooper, J.M., Grandison, A.S. & Rastall, R.A. (2004). Synthesis of Isomaltooligosaccharides and Oligodextrans in a Recycle Membrane Bioreactor by the Combined Use of Dextranucrase and Dextranase. *Biotechnology and Bioengineering*, **88**, pp778-787.
- 5.** Tzortzis, G., Goulas, A., Baillon, M.L., Gibson, G.R. & Rastall, R.A. (2004). *In vitro* evaluation of the fermentation properties of galactooligosaccharides synthesised by α -galactosidase from *Lactobacillus reuteri*, *Applied Microbiology and Biotechnology*, **64**, pp106-111.
- 6.** Tzortzis, G., Goulas, A. & Gibson, G.R. (2005). Synthesis of prebiotic galactooligosaccharides using whole cells of a novel strain, *Bifidobacterium bifidum* NCIMB 41171. *Applied Microbiology and Biotechnology*, **68**, pp412-416.
- 7.** Tzortzis, G., Goulas, A., Jennifer, M.G. & Gibson, G.R. (2005). A novel galactooligosaccharide mixture increases the *bifidobacterial* population numbers in a continuous *in vitro* fermentation system and in the proximal colonic contents of pigs *in vivo*. *The Journal of Nutrition*, **135**, pp1726-1731.

8. **Goulas, A.**, Tzortzis, G. & Gibson, G.R. (2007). Development of a process for the production and purification of α - and β -galactooligosaccharides from *Bifidobacterium bifidum* NCIMB 41171. *International Dairy Journal*, **17**, pp648-656.
9. Goulas, T., **Goulas, A.**, Tzortzis, G. & Gibson, G.R. (2007). Molecular cloning and comparative analysis of four β -galactosidase genes from *Bifidobacterium bifidum* NCIMB 41171. *Applied Microbiology and Biotechnology*, **76**(6), pp1365-1372.
10. Goulas, T., **Goulas, A.**, Tzortzis, G. & Gibson, G.R. (2009). A novel α -galactosidase from *Bifidobacterium bifidum* with transgalactosylating properties: gene molecular cloning and heterologous expression. *Applied Microbiology and Biotechnology*, **82**, pp471-477.
11. Goulas, T., **Goulas, A.**, Tzortzis, G. & Gibson, G.R. (2009). Comparative analysis of four β -galactosidases from *Bifidobacterium bifidum* NCIMB41171: purification and biochemical characterization. *Applied Microbiology and Biotechnology*, **82**, pp1079-1088.
12. Goulas, T., **Goulas, A.**, Tzortzis, G. & Gibson, G.R. (2009). Expression of four β -galactosidases from *Bifidobacterium bifidum* NCIMB41171 and their contribution to the hydrolysis and synthesis of galactooligosaccharides. *Applied Microbiology and Biotechnology*, **84**, pp899-907.
13. Dimitreli, G., Exarhopoulos, S., **Goulas, A.**, Antoniou, K.D., & Raphaelides, S.N. (2016). Effect of Kefiran and Milk Proteins Addition on the Rheological Behavior of Glucono- δ -Lactone Induced Milk Gels. *Journal of Food Research*, **5**, pp 122-128.
14. **Goulas, A.** & Grandison, A.S. (2008). Applications of Membrane Separation. In: Advanced Dairy Technology, (pp35-75), Ed. Britz, T. & Robinson, R., Blackwell publishing, Oxford.