

# BIOGRAPHY

18<sup>th</sup> April 2011



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**Title and name**

Dr. Kostantinos Koutsoumanis

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**Nationality**

Greek

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**Panel**

Panel on Biological Hazards

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**Education**

B.S. Agricultural University of Athens, Dpt. Of Food Science and Technology, Athens, Greece, 1997.

Ph.D. Agricultural University of Athens, Dpt. Of Food Science and Technology, Athens, Greece, 2000  
(Food Microbiology)

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**Scientific and risk assessment experience**

Risk Assessment of pathogens in Foods

Predictive Microbiology

Stochastic modeling of microbial behaviour

Stress adaptation of pathogenic bacteria

Microbial physiology

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**Main scientific publications**

Koutsoumanis K., A. Pavlis, G.-J.E. Nychas, and K. Xanthiakos (2010) Probabilistic Model for *Listeria monocytogenes* Growth during Distribution, Retail Storage, and Domestic Storage of Pasteurized Milk. *Appl. Envir. Microbiol.* 76, 2181–2191

K. Koutsoumanis (2009) Modeling food spoilage in Microbial Risk Assessment. *Journal of Food Protection*, 72, 425–427

K. Koutsoumanis (2008) A study on the variability in the growth limits of individual cells and its effect on the behavior of microbial populations. *International Journal of Food Microbiology*, 128, 116–121

Gougouli, M., Angelidis, A.S., Koutsoumanis, K. (2008) A study on the kinetic behavior of *Listeria monocytogenes* in ice cream stored under static and dynamic chilling and freezing conditions *Journal of Dairy Science* 91, 523–530

Koutsoumanis, K., Angelidis, A.S. (2007) Probabilistic modeling approach for evaluating the compliance of ready-to-eat foods with new European union safety criteria for *Listeria monocytogenes* *Applied and Environmental Microbiology* 73, 4996–5004

K. Xanthiakos, D. Simos, A.S. Angelidis, G.-J.E. Nychas and K. Koutsoumanis. (2006) Dynamic modeling of *Listeria monocytogenes* growth in pasteurized milk. *Journal App. Microbiol.* 100, 1289–1298

Koutsoumanis K. and Sofos, J.N. (2005). Effect of inoculum size on the combined temperature, pH and aw limits for growth of *Listeria monocytogenes*. *International Journal of Food Microbiology*, 104, 83–91.

Koutsoumanis, K., Taoukis, P.S. and Nychas, G.-J.E. (2005) Development of a Safety Monitoring and Assurance System (SMAS) for chilled food products. *International Journal of Food Microbiology* 100, 253–260

Koutsoumanis, K., and Sofos, J.N. (2004) A comparative study on growth limits of *Listeria monocytogenes* as affected by temperature, pH and aw when grown in suspension or on a solid surface. *Food Microbiology* 21, 415–422

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Koutsoumanis K.P. (2001) Predictive modelling of the shelf life of fish at non-isothermal conditions.  
*Applied Environmental Microbiology* 67, 1821-1829

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