

# BIOGRAPHY

25/06/2012



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**Title and name**

Research Scientist, Baltasar Mayo

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**Nationality**

Spain

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**Panel**

Additives and products or substances used in animal feed (FEEDAP)

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**Education**

Doctor in Biology, from 1988, by the University of Oviedo, Spain

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**Scientific and risk assessment experience**

- Manager of Quality at Mantequerías Arias SA
  - Research in the molecular analysis of antibiotic resistance genes in lactic acid bacteria
  - Analysis of transference of antibiotic resistance genes between food-borne bacteria
  - Research in antibiotic resistance gene content, copy number, and mobile genetic elements in food, and transferability of resistance determinants among food bacteria
  - Dairy microbiology, safety assessment of lactic acid bacteria to be used as starter and adjunct cultures
  - Research in gastrointestinal microbiology, selection of probiotic candidates, and safety assessment of probiotics
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**Main scientific publications**

- Food Science and Technology
  - Antibiotic resistance
  - Gastrointestinal microbiology
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- Delgado, S., F. Fracchetti, N. Rota, B. Mayo, and S. Torriani. 2011. Development and validation of a multiplex PCR-based DNA microarray hybridization method for detecting antibiotic resistance genes in cheese. *International Dairy Journal* 21: 149-157.
  - Fernández, E., Alegría, A., S. Delgado, and B. Mayo. 2010. Phenotypic, genetic and technological characterisation of *Lactococcus garvieae* strains isolated from a raw milk cheese. *International Dairy Journal* 20: 142-148.
  - Flórez, A. B., M. S. Ammor, and B. Mayo. 2008. Identification of tet(M) in two *Lactococcus lactis* isolated from a Spanish traditional starter-free cheese made of raw milk and conjugative transfer of tetracycline resistance to lactococci and enterococci. *International Journal of Food Microbiology* 121: 189-194.

- Ammor, M. S., A. B. Flórez, A. H. A. M. van Hoek, C. R. G. de los Reyes-Gavilán, H. J. M. Aarts, A. Margolles, and B. Mayo. 2008. Molecular characterization of intrinsic and acquired antibiotic resistance in lactic acid bacteria and bifidobacteria. *Journal of Molecular Microbiology and Biotechnology* 14: 6-15.
  - Delgado, S., E. O'Sullivan, G. Fitzgerald, and B. Mayo. 2007. Subtractive screening for probiotic properties of *Lactobacillus* species from the human gastrointestinal tract in the search for new probiotics. *Journal of Food Science* 72: 310-315.
  - Flórez, A. B., M. Danielsen, J. Korhonen, J. Zycka, A. Von Wright, J. Bardowski, and B. Mayo. 2007. Antibiotic survey of *Lactococcus lactis* strains to six antibiotics by Etest, and establishment of susceptibility-resistance cut-off values. *Journal of Dairy Research* 30: 1-7.
  - Flórez, A. B., M. S. Ammor, P. Álvarez-Martín, A. Margolles, and B. Mayo. 2006. Molecular analysis of tet(W) gene-mediated tetracycline resistance in dominant intestinal *Bifidobacterium* species from healthy humans. *Applied and Environmental Microbiology* 72: 7377-7379.
  - Delgado, S., A. Suárez, and B. Mayo. 2006. Identification of dominant bacteria in faeces and colonic mucosa from healthy Spanish adults by culturing and by 16S rDNA sequence analysis. *Digestive Diseases and Sciences* 51: 744-751.
  - Flórez, A. B., S. Delgado, and B. Mayo. 2005. Antimicrobial susceptibility of lactic acid bacteria isolated from a cheese environment. *Canadian Journal of Microbiology* 51: 51-58.
  - Delgado, S., A. B. Flórez, and B. Mayo. 2005. Antibiotic susceptibility of *Lactobacillus* and *Bifidobacterium* species from the human gastrointestinal tract. *Current Microbiology* 50: 202-207.
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