

Maria C. URDACI, Ph.D.

Date of Birth: September, 1958

Affiliation:

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Academic History:

1981	Faculty of Sciences,	Biological Sciences Valencia University, Spain
1982	Faculty of Sciences,	MS in Microbiology Valencia University, Spain
1984	Faculty of Medicine	U.E.R. Medical Sciences Health and Development Bordeaux University, France
1987	Institut Pasteur & Univ. Bordeaux,	PhD in Microbiology Bordeaux University, France
1992	Accreditation to supervise PhD researches (HDR). Bordeaux University, France	

Professional/Scientific Career:

1983-1987	Associated Assistant	Food Microbiology Bordeaux University, France
1988-1989	Postdoctoral Fellow	Department of Genetics, Bordeaux 2 University, France
1990-1994	Associate Professor	Genius Biotechnology Limoges University, France
1994-1996	Associate Professor	Department of Microbiology, Bordeaux University, France

1996-2007	Professor	Bordeaux Sciences Agro Microbiology & Biochemistry Laboratory University of Bordeaux
2008-present	Professor	Microbiology Laboratory CBMN UMR 5248, Bordeaux Sciences Agro, University of Bordeaux

Awards/Professional Societies/ Expert:

1988	Young Investigator's Award, Ministerio de Educacion y Ciencia, Spain.
2009	Visiting Professor to the University Kasertsart–Bangkok
2004-2013	Expert in the Committee Experts Specialists (CES) of Biotechnology at French National Agency for Food Sanitary Control (ANSES (ex-AFSSA): the EFSA equivalent for France (Microbial enzymes and OGM safety sections)
2009-present	Member of ANSES Expert Committee, panel “phytosanitary products: macro and microorganisms”.
2005-present	Expert at different Advisory Committees (CEE, Research Council of Hong Kong, Cerela Argentina, AERES, CIFOOG, Gent University, INRA...).
2012-2016	Direction of the axis gastrointestinal health at the Institute of Nutrition Aquitaine-Quebec (INAQ).

Research Area/ Interests:

Our research activities are conducted in the field of microbiology, immunology and molecular biology. We study the interactions between Probiotics, Microbiota & Host health. *Bacillus* and *Lactobacillus* probiotics are principally studied. We characterize bacterial compounds involved in their beneficial effects and study their interaction with the host. Immunomodulatory properties and cell signaling in intestinal mucosa are studied in detailed way. Our interest is also focused on the study of intestinal microbiota and its modulation using molecular methods. Murine models (anti-inflammatory, obesity, insulin resistance...) are used to study “in vivo” the effect of probiotics, prebiotics and polyphenolic substances.

Selected publication:

Original article, 94; books and popular science magazines: 14; Patents 4.

1. Ripert G, Racedo SM, Elie AM, Jacquot C, Bressollier P, **Urdaci MC**. 2016. Secreted compounds of the probiotic *Bacillus clausii* O/C inhibit the cytotoxic effects induced by *Clostridium difficile* and *Bacillus cereus* toxins. *Antimicrob Agents Chemother*. 60: 3445-54.
2. Lefevre M, Racedo S, Ripert G, Housez B, Cazaubiel M, Maudet C, Justen P, Marteau P, **Urdaci MC**. 2015. Probiotic strain *Bacillus subtilis* CU1 stimulates immune system of elderly during common infectious disease period: a randomized, double blind placebo-controlled study. *Immun & Ageing* 12: 24-35.
3. Dudonné S, Varin TV, Forato Anhê F, Dubé P, Roy D, Pilon G, Marette A, Jacquot C, **Urdaci MC**, Levy E, Desjardins Y. 2015. Modulatory effects of a cranberry extract co-supplementation with *Bacillus subtilis* probiotic on phenolic compounds bioavailability and gut microbiota composition in high-fat diet-fed mice. *Pharma Nutrition*, 3: 89-100.
4. Le Barz M, Anhê FF, Varin TV, Desjardins Y, Levy E, Roy D, **Urdaci MC**, Marette A. 2015. Probiotics as complementary treatment for metabolic disorders. *Diabetes Metab J*. 39: 291-303.
5. Carasi P, Racedo SM, Jacquot C, Romanin DE, Serradell MA, **Urdaci MC**. 2015. Impact of Kefir derived *Lactobacillus kefir* on the mucosal immune response and gut microbiota. *J Immunol. Res*. 2015: ID 361604.
6. Hevia A, López P, Suárez A, Jacquot C, **Urdaci MC**, Margolles A, Sánchez B. 2014. Association of levels of antibodies from patients with inflammatory bowel disease against extracellular proteins of food and probiotic bacteria. *BioMed Research International*, 2014:ID 351204
7. Bernardo D, Sánchez B, Al-Hassi HO, Mann ER, **Urdaci MC**, Knight SC, Margolles A. 2012. Microbiota/host crosstalk biomarkers: regulatory response of human intestinal dendritic cells exposed to *Lactobacillus* extracellular encrypted peptide. *PLoS One* 7(5): e36262.
8. Sánchez B, **Urdaci MC**. 2012. Extracellular Proteins from *Lactobacillus plantarum* BMCM12 Prevent Adhesion of Enteropathogens to Mucin. *Curr Microbiol*. 64(6): 592-6.
9. Sánchez B., López P., González-Rodríguez I., Suárez A., Margolles A. **Urdaci MC**. 2011. A flagellin-producing *Lactococcus* strain: interactions with mucin and enteropathogens. *FEMS Microbiol Lett* 318: 101-107.
10. Pinchuk I., Bressollier P., Verneil B., Fenet B., Sorokulova I. B., Megraud F., **Urdaci M.C**. 2001. In vitro anti-*Helicobacter pylori* activity of the probiotic strain *Bacillus subtilis* 3 is due to secretion of antibiotics. *Antimicrob. Agents Chemother*. 45: 3156-61.