



## PERSONAL DATA:

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## CURRENT POSITION:

Postdoctoral Researcher at the IPLA-CSIC (<http://www.ipla.csic.es>).

## EDUCATION:

Biology graduate, 2001; Master graduate, 2003.  
PhD Food Microbiology, European Mention, 2007 (Awarded with honours).

## PROFESIONAL EXPERIENCE:

- Doctoral fellowship, Instituto de Productos Lácteos de Asturias - CSIC. Supervisors: Dr. Abelardo Margolles and Dr. Clara G. de los Reyes-Gavilán. 2002-2007.
- Postdoctoral contract (Clarín Program from the Asturias Community). Department of Microbiology, University of Bordeaux, ENITAB. Supervisor: Prof. Dr. María C. Urdaci. 2007-2009.
- Postdoctoral contract (Juan de la Cierva, Spanish MINECO). Instituto de Productos Lácteos de Asturias – CSIC. 2009-currently.
- Short-term stays in the French INRA (2004, 2005), University of Limoges (2009) and in the Probiogenomics Group in the University of Parma (2009, 2011).

## SCIENTIFIC WORKS/CONFERENCES

- To date, I have 59 accepted SCI publications. According to Scopus database (Author ID in Scopus: 7103257987), they sum 674 citations, giving an h-index of 15. The applicant is the first or last author in 35 and corresponding author in 21. In addition, he has published 11 works in non peer-reviewed journals, including 7 book chapters, and he has presented 51 communications to national and international meetings, including 6 invited talks to national and international meetings.

## PROFESSIONAL BACKGROUND/SKILLS

- I have skills in Molecular Microbiology, Food Microbiology, Bioinformatics, Commensal Microbe-Human interactions, Response of Probiotic Bacteria to Stress, Cell Biology, Immunology, Genomics, Metagenomics, Proteomics, Metaproteomics and Metatranscriptomics.

## ORGANIZING EXPERIENCE

- Organising Committee of the “3rd International Symposium on propionibacteria and bifidobacteria”. Oviedo. Spain. 2010.
- Organising Committee of the “1º Congreso Sobre Denominaciones de Origen de Quesos Españoles” Oviedo, Spain. 2011.
- Organising Committee of the “35th International Congress of the Society for Microbial Ecology and Disease (SOMED)”. Valencia, Spain. 2012.

## **OTHER ACTIVITIES:**

- One world patent (WO 2013034795 A1) and one national patent (registered; P201131138).
- Principal Investigator of three Research Projects, one of them for science divulgation, financed through competitive public national calls. Collaborator in other 12 national and international projects.
- English and French properly written and spoken (native in Spanish).
- 2 currently supervised Ph.D. theses.
- Several supervised MSc. and student projects in the ENITAB and CSIC.
- Collaborator of International Life Science Institute.
- Project evaluator for international institutions (Czech Science Foundation and *Agencia Nacional de Promoción Científica y Tecnológica* from Argentina).

## SCI publications (\* denotes corresponding author).

1. Abelardo Margolles, Laura García, **Borja Sánchez**, Miguel Gueimonde and Clara G. de los Reyes-Gavilán\*. 2003. Characterisation of a *Bifidobacterium* strain with acquired resistance to cholate – A preliminary study. *International Journal of Food Microbiology* 82: 191-198.
2. Luis Noriega, Miguel Gueimonde, **Borja Sánchez**, Abelardo Margolles and Clara González de los Reyes-Gavilán\*. 2004. Effect of the adaptation to high bile salts concentrations on glycosidic activity, survival at low pH and cross-resistance to bile salts in *Bifidobacterium*. *International Journal of Food Microbiology* 94:79-86.
3. **Borja Sánchez**, Luis Noriega, Patricia Rúas-Madiedo, Clara G. de los Reyes-Gavilán and Abelardo Margolles\*. 2004. Acquired resistance to bile increases fructose-6-phosphate activity in *Bifidobacterium*. *FEMS Microbiology Letters* 235:35-41.
4. Clara G. de los Reyes-Gavilán\*, Patricia Rúas Madiedo, Luis Noriega, Isabel Cuevas, **Borja Sánchez**, Abelardo Margolles. 2005. Effect of acquired resistance to bile salts on enzymatic activities involved in the utilisation of carbohydrates by bifidobacteria. An overview. *Lait* 85: 113-123.
5. **Borja Sánchez**, Marie-Christine Champomier-Vergès\*, Patricia Anglade, Fabienne Baraige, Clara G. de los Reyes-Gavilán, Abelardo Margolles and Monique Zagorec. 2005. Proteomic análisis of the global changes in protein expresión during bile salt exposure of *Bifidobacterium longum* NCIMB 8809. *Journal of Bacteriology* 187: 5799-5808.
6. **Borja Sánchez**, Clara G. de los Reyes-Gavilán and Abelardo Margolles\*. 2006. The F1F0-ATPase of *Bifidobacterium animalis* is involved in bile tolerance. *Environmental Microbiology* 8: 1825-1833.
7. Lorena Ruiz, **Borja Sánchez**, Patricia Ruas-Madiedo, Clara G. de los Reyes-Gavilán, and Abelardo Margolles\*. 2007. Cell envelope changes in *Bifidobacterium animalis* subsp. *lactis* as a response to bile. *FEMS Microbiology Letters* 274: 316-322.
8. **Borja Sánchez**, Marie-Christine Champomier-Vergès\*, Birgitte Stuer-Lauridsen, Patricia Ruas-Madiedo, Patricia Anglade, Fabienne Baraige, Clara G. de los Reyes-Gavilán, Eric Johansen, Monique Zagorec and Abelardo Margolles. 2007. Adaptation and response of *Bifidobacterium animalis* subsp. *lactis* to bile: a proteomic and physiological approach. *Applied and Environmental Microbiology* 73: 6757-6767.
9. **Borja Sánchez**, Marie-Christine Champomier-Vergès, María del Carmen Collado, Patricia Anglade, Fabienne Baraige, Yolanda Sanz, Clara G. de los Reyes-Gavilán, Abelardo Margolles\*, and Monique Zagorec. 2007. Low pH adaptation and the acid tolerance response of *Bifidobacterium longum*. *Applied and Environmental Microbiology* 73: 6450-6459.
10. **Borja Sánchez**, Marie-Christine Champomier-Vergès\*, Patricia Anglade, Fabienne Baraige, Clara G. de los Reyes-Gavilán, Abelardo Margolles and Monique Zagorec. 2008. A preliminary analysis of *Bifidobacterium longum* exported proteins by two dimensional electrophoresis. *Journal of Molecular Microbiology and Biotechnology* 14: 74-79.
11. **Borja Sánchez**, Lorena Ruiz, Clara G. de los Reyes-Gavilán, and Abelardo Margolles\*. 2008. Proteomics of stress response in *Bifidobacterium*. *Frontiers in Bioscience* 13: 6905-6919.
12. **Borja Sánchez\***, Philippe Bressollier and María C. Urdaci. 2008. Exported proteins in probiotic bacteria: adhesion to intestinal surfaces, host immunomodulation and molecular cross-talking with the host. *FEMS Immunology and Medical Microbiology*. 54: 1-17.
13. **Borja Sánchez\***, Philippe Bressollier, Stéphane Chaignepain, Jean-Marie Schmitter and María C. Urdaci. 2008. Identification of surface-associated proteins in the probiotic bacterium *Lactobacillus rhamnosus* GG. *International Dairy Journal*. 19: 85-88.
14. María C. Urdaci and **Borja Sánchez\***. 2008. Some immunomodulatory effects of probiotic bacteria might be due to porcine neutrophil elastase inhibitor, a serpin present in MRS broth. *Immunology Letters*. 122: 99-100.
15. Lorena Ruiz, Yohann Couté, **Borja Sánchez**, Clara G. de los Reyes-Gavilán, Jean-Charles Sanchez, and Abelardo Margolles\*. 2009. The cell-envelope proteome of *Bifidobacterium longum* in an in vitro bile environment. *Microbiology-SGM*. 155: 957-67.

16. **Borja Sánchez**, Soledad Arias, Stéphane Chaignepain, Muriel Denayrolles, Jean-Marie Schmitter, Philippe Bressollier and María C. Urdaci\*. 2009. Identification of surface proteins involved in the adhesion of a probiotic *Bacillus cereus* strain to mucin and fibronectin. *Microbiology-SGM*. 155: 1708-1716.
17. **Borja Sánchez\***, Stéphane Chaignepain, Jean-Marie Schmitter and María C. Urdaci. 2009. A method for the identification of proteins secreted by lactic acid bacteria grown in complex media. *FEMS Microbiology Letters*. 225: 226-229.
18. **Borja Sánchez\***, Jean-Marie Schmitter and María C. Urdaci. 2009. Identification of novel proteins secreted by *Lactobacillus rhamnosus* GG grown in de Man-Rogosa-Sharpe broth. *Letters in Applied Microbiology*. 48: 618-622.
19. Lorena Ruiz, **Borja Sánchez\***, Clara G. de los Reyes-Gavilán, Miguel Gueimonde and Abelardo Margolles. 2009. Co-culture of *Bifidobacterium longum* and *Bifidobacterium breve* alters protein expression profiles and enzymatic activities. *International Journal of Food Microbiology*. 133: 148-153.
20. **Borja Sánchez\***, Jean-Marie Schmitter and María C. Urdaci. 2009. Identification of novel proteins secreted by *Lactobacillus plantarum* that bind to mucin and fibronectin. *Journal of Molecular Microbiology and Biotechnology*. 17:158-162.
21. **Borja Sánchez**, Clara G. de los Reyes-Gavilán, Abelardo Margolles and Miguel Gueimonde\*. 2009. Probiotic fermented milks: present and future. *International Journal of Dairy Technology*. 62: 472-483.
22. **Borja Sánchez\***, Manuel Zúñiga, Fernando González-Candelas, Clara G. de los Reyes-Gavilán and Abelardo Margolles. 2010. Bacterial and eukaryotic phosphoketolases: phylogeny, distribution and evolution. *Journal of Molecular Microbiology and Biotechnology* 18: 37-51.
23. **Borja Sánchez\***, Naïma Saad, Jean-Marie Schmitter, Philippe Bressollier and María C. Urdaci. 2010. Adhesive properties, extracellular protein production and metabolism in the *Lactobacillus rhamnosus* GG strain when grown in the presence of mucin. *Journal of Microbiology and Biotechnology*. 20: 978–984.
24. **Borja Sánchez\***, María Fernández-García, Abelardo Margolles, Clara G. de los Reyes-Gavilán and Patricia Ruas-Madiedo. 2010. Technological and probiotic selection criteria of a bile-adapted *Bifidobacterium animalis* subsp. *lactis* strain. *International Dairy Journal*. 20: 800-805.
25. Patricia Burns, **Borja Sánchez**, Gabriel Vinderola, Patricia Ruas-Madiedo, Lorena Ruiz, Abelardo Margolles, Jorge Reinheimer and Clara G. de los Reyes-Gavilán\*. 2010. Inside the adaptation process of *Lactobacillus delbrueckii* subsp. *lactis* to bile. *International Journal of Food Microbiology*. 142: 132–141.
26. **Borja Sánchez\***, Abelardo Margolles, Patricia Ruas-Madiedo, Clara G. de los Reyes-Gavilán, and Miguel Gueimonde. 2010. Emerging probiotics: the human milk commensal microbiota as an example. *Agro Food Industry Hi-Tech*. 21: 34-36.
27. **Borja Sánchez\***, María Urdaci and Abelardo Margolles. 2010. Extracellular proteins secreted by probiotic bacteria as mediators of effects that promote mucosa-bacteria interactions. *Microbiology-SGM*. 156: 3232–3242.
28. **Borja Sánchez**, Marta L. Cabo\*, Abelardo Margolles and Juan José R. Herrera. 2010. A proteomic approach to cold-acclimation of *Staphylococcus aureus* CECT 976 grown at room and human body temperatures. *International Journal of Food Microbiology*. 144: 160–168.
29. Francesca Turroni, Francesca Bottacini, Elena Foroni, Imke Mulder, Jae-Han Kim, Aldert Zomer, **Borja Sánchez**, Alessandro Bidossi, Alberto Ferrarini, Vanessa Giubellini, Massimo Delledonne, Bernard Henrissat, Pedro Coutinho, Marco Oggioni, Gerald F. Fitzgerald, David Mills, Abelardo Margolles, Denise Kelly, Douwe van Sinderen, and Marco Ventura\*. 2010. Genome analysis of *Bifidobacterium bifidum* PRL2010 reveals metabolic pathways for host-derived glycan foraging. *Proceedings of the Natural Academy of Sciences U. S. A.* 107: 19514-19519.
30. **Borja Sánchez\***, Carmen González-Tejedo, Patricia Ruas-Madiedo, María C. Urdaci, and Abelardo Margolles. 2011. *Lactobacillus plantarum* extracellular chitin binding protein and its role in the interaction between chitin, Caco-2 cells and mucin. *Applied and Environmental Microbiology*. 77: 1123-1126.

31. Lorena Ruiz, Patricia Ruas-Madiedo, Miguel Gueimonde, Clara G. de los Reyes-Gavilán, Abelardo Margolles\*, **Borja Sánchez**. 2011. How do bifidobacteria counteract environmental challenges? Mechanisms involved and physiological consequences. *Genes and Nutrition*. 6: 307-318.
32. **Borja Sánchez**, Patricia López, Ana Suárez, Abelardo Margolles and María C. Urdaci. 2011. A flagellin-producing *Lactococcus* strain: interactions with mucin and enteropathogens. *FEMS Letters*. 318: 101-107.
33. Funmilola A. Ayeni, **Borja Sánchez**, Bolanle A. Adeniyi, Clara G. de los Reyes-Gavilán, Abelardo Margolles, and Patricia Ruas-Madiedo\*. 2011. Evaluation of the probiotic potential of Weissella and Lactobacillus strains isolated from Nigerian traditional dairy fermented foods. *International Journal of Food Microbiology*. 147: 97-104.
34. Silvia Arboleya, **Borja Sánchez**, Nuria Fernández, Gonzalo Solís, Clara G. de los Reyes-Gavilán, Miguel Gueimonde\*. 2011. Breast-milk lactobacilli and bifidobacteria: opportunities for the development of infant formulas. *Agro Food Industry Hi-Tech*. 22: 24-26.
35. **Borja Sánchez\***, Lorena Ruiz, Adolfo Suárez, Clara G. de los Reyes-Gavilán, Abelardo Margolles. 2011. Human cecum content modulates production of extracellular proteins by food and probiotic bacteria. *FEMS Letters*. 324:189-194.
36. Lorena Ruiz, Miguel Gueimonde, Patricia Ruas-Madiedo, Angela Ribbera, Clara G. de los Reyes-Gavilán, Marco Ventura, Abelardo Margolles\*, **Borja Sánchez**. 2012. Molecular clues to understand the aerotolerant phenotype of *B. animalis* subsp. *lactis*. *Applied and Environmental Microbiology*. 78: 644-650.
37. Patricia López, Irene González-Rodríguez, **Borja Sánchez**, Miguel Gueimonde, Abelardo Margolles\*, Ana Suárez. 2012. Treg-inducing membrane vesicles from *Bifidobacterium bifidum* LMG13195 as potential adjuvants in immunotherapy. *Vaccine*. 30: 825-829.
38. Rebeca Martín\*, **Borja Sánchez**, Juan Evaristo Suárez and María C. Urdaci. 2012. Characterization of the adherence properties of human Lactobacilli strains to be used as vaginal probiotics. *FEMS Microbiology Letters*. 328: 166–173.
39. Patricia López, Irene González-Rodríguez, **Borja Sánchez**, Patricia Ruas-Madiedo, Ana Suárez, Abelardo Margolles\*, and Miguel Gueimonde. 2012. Interaction of *Bifidobacterium bifidum* LMG13195 with HT29 cells influences Treg associated chemokine receptor expression. *Applied and Environmental Microbiology*. . 78: 2850-2857.
40. **Borja Sánchez**, Lorena Ruiz, Miguel Gueimonde, Patricia Ruas-Madiedo and Abelardo Margolles\*. 2012. Towards improving technological and functional properties of probiotics in foods. *Trends in Food Science & Technology*. 26: 56-63.
41. Abelardo Margolles and **Borja Sánchez\***. 2012. Selection of a low-acetate producing *Bifidobacterium lactis* subsp. *lactis* strain. *Applied and Environmental Microbiology*. 78: 3338–3342.
42. **Borja Sánchez\*** and María C. Urdaci. 2012. Extracellular proteins from *Lactobacillus plantarum* BMCM12 prevent adhesion of enteropathogens to mucin. *Current Microbiology*. 64: 592-596.
43. Irene González, **Borja Sánchez**, Lorena Ruiz, Francesca Turrone, Marco Ventura, Patricia Ruas-Madiedo, Miguel Gueimonde, and Abelardo Margolles\*. 2012. Role of extracellular transaldolase from *Bifidobacterium bifidum* in mucin adhesion and aggregation. *Applied and Environmental Microbiology*. 78: 3992-3998.
44. **Sánchez B\***, Bernardo D, 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.
45. Miguel Gueimonde\* and **Borja Sánchez**. 2012. Enhancing probiotic stability in industrial processes. *Microbial Ecology in Health and Disease*. 23: 18562.
46. Abelardo Margolles, Miguel Gueimonde, and **Borja Sánchez\***. 2012. Genome sequence of the antarctic psychrophile bacterium *Planococcus antarcticus* DSM 14505. *Journal of Bacteriology*. 194:4465.
47. Miguel Gueimonde, Francesca Botaccini, Douwe van Sinderen, Marco Ventura, Abelardo Margolles, and **Borja Sánchez\***. 2012. Genome sequence of the human breast-milk isolate *Parascardovia denticolens* IPLA 20019. *Journal of Bacteriology*. 194:4776-4777.

48. Francesca Bottacini, Christian Milani, Francesca Turrone, **Borja Sánchez**, Elena Foroni, Sabrina Duranti, Fausta Serafini, Alice Viappiani, Francesco Strati, Alberto Ferrarini, Massimo Delledonne, Bernard Henrissat, Pedro Coutinho, Gerald F. Fitzgerald, Abelardo Margolles, Douwe van Sinderen, Marco Ventura\*. *Bifidobacterium asteroides* PRL2011 genome analysis reveals clues for colonization of the insect gut. PLoS ONE. 7: e44229.
49. Miguel Gueimonde, Marco Ventura, Abelardo Margolles, and **Borja Sánchez**\*. 2012. Genome sequence of the immunomodulatory strain *Bifidobacterium bifidum* LMG 13195. Journal of Bacteriology. 194: 6997.
50. **Borja Sánchez**; Lorena Ruiz; Miguel Gueimonde; Patricia Ruas-Madiedo; Abelardo Margolles\*. 2013. Adaptation of bifidobacteria to the gastrointestinal tract and functional consequences. Pharmacological Research. 69: 127-136.
51. Irene González-Rodríguez, Lorena Ruiz, Miguel Gueimonde, Abelardo Margolles\*, **Borja Sánchez**. 2013. Factors involved in the colonization and survival of bifidobacteria in the gastrointestinal tract. 2013. FEMS Microbiology Letters. 340: 1-10.
52. Arancha Hevia, Abelardo Margolles, **Borja Sánchez**\*. 2013. Aplicación de los niveles de anticuerpos dirigidos contra proteínas extracelulares de probióticos como marcadores de enfermedad inflamatoria intestinal. Nutrición Hospitalaria. 28(S1): 30.
53. **Borja Sánchez**, Patricia Burns, Lorena Ruiz, Gabriel Vinderola, Jorge Reinheimer, Abelardo Margolles, Patricia Ruas-Madiedo, Clara Gonzalez de los Reyes-Gavilán\*. 2013. Co-culture affects protein profile and heat tolerance of *Lactobacillus delbrueckii* subsp. *lactis* and *Bifidobacterium longum*. Food Research International. In press. <http://dx.doi.org/10.1016/j.foodres.2013.01.026>
54. **Borja Sánchez**; Lorena Ruiz; Miguel Gueimonde; Abelardo Margolles\*. 2013. Omics for the study of probiotic microorganisms. Food Research International. In press. <http://dx.doi.org/10.1016/j.foodres.2013.01.029>
55. Claudio Hidalgo-Cantabrana, **Borja Sánchez**, Deborah Moine, Bernard Berger, Clara G. de los Reyes-Gavilán, Miguel Gueimonde, Abelardo Margolles, Patricia Ruas-Madiedo. 2013. Insights into theropy phenotype of the exopolysaccharide-producing strain *Bifidobacterium animalis* subsp. *lactis* A1dOxR. Applied and Environmental Microbiology. In press. doi: 10.1128/AEM.00633-13.
56. Christian Milani, Arancha Hevia, Elena Foroni, Sabrina Duranti, Francesca Turrone, Gabriele Andrea Lugli, **Borja Sánchez**, Rebeca Martín, Miguel Gueimonde, Douwe van Sinderen, Abelardo Margolles, Marco Ventura. 2013. Assessing the Fecal Microbiota: An Optimized Ion Torrent 16S rRNA Gene-Based Analysis Protocol. PLoS ONE. 8(7): e68739.
57. Francesca Turrone, Fausta Serafini, Elena Foroni, Sabrina Duranti, Mary O'Connell Motherway, Valentina Taverniti, Marta Mangifesta, Christian Milani, Alice Viappiani, Tommaso Roversi, **Borja Sánchez**, Andrea Santoni, Laura Gioiosa, Alberto Ferrarini, Massimo Delledonne, Abelardo Margolles, Laura Piazza, Paola Palanza, Angelo Bolchi, Simone Guglielmetti, Douwe van Sinderen, Marco Ventura. 2013. The role of sortase-dependent pili of *Bifidobacterium bifidum* PRL2010 in modulating bacterium-host interactions. Proceedings of the National Academy of Sciences U. S. A. doi: 10.1073/pnas.1303897110.
58. Miguel Gueimonde, **Borja Sánchez**, Clara G. de los Reyes-Gavilán, Abelardo Margolles\*. 2013. Antibiotic resistance in probiotic bacteria. Frontiers in Microbiology. 4: 202.
59. Arancha Hevia, Noelia Martínez, Víctor Ladero, Miguel Ángel Álvarez, Abelardo Margolles, **Borja Sánchez**\*. 2013. An extracellular serine/threonine-rich protein from *Lactobacillus plantarum* NCIMB 8826 is a novel aggregation promoting factor with affinity to mucin. Applied and Environmental Microbiology. In press. doi:10.1128/AEM.01657-13.

## Book chapters.

1. Sampo J. Lahtinen, Borja Sanchez, Sofia Forsten, Arthur C. Ouwehand and Miguel Gueimonde. Chapter 4: Enumeration and viability assessment of probiotic bacteria. (EDITORS) José de Assis Fonseca Faria, Adriano Gomes da Cruz, Nagendra Shah, Hassan Korbekandi. In: Probiotic and Prebiotic Foods: Technology, Stability and Benefits to the Human Health. Nova Science Publishers, Inc. (ISBN: 978-1-61728-825-8)

2. Borja Sánchez, Lorena Ruiz, Douwe van Sinderen, Abelardo Margolles\*, and Aldert L. Zomer. Acid and bile resistance and stress response in bifidobacteria. (EDITORS) Mayo, B., and van Sinderen, D. In: Bifidobacteria: Genomics and Molecular Aspects. Horizon Scientific Press (ISBN: 978-1-904455-68-4)
3. Abelardo Margolles, Patricia Ruas-Madiedo, Clara G. de los Reyes-Gavilán, Borja Sánchez and Miguel Gueimonde. Chapter 20: Bifidobacterium. (EDITOR) Dongyou Liu. In: Molecular Detection of Human Bacterial Pathogens. Taylor & Francis CRC Press (ISBN: 978-1-4398124-0-2)
4. Miguel Gueimonde, Clara Gonzalez de los Reyes-Gavilán and Borja Sánchez. Stability of lactic acid bacteria in foods and supplements. (EDITORS) S. Salminen, A. Ouwehand, S. Lahtinen and A. von Wright. In: Lactic Acid Bacteria: Microbiological and Functional aspects. 4th edition. CRC Press (Taylor & Francis Group), Florida (2011) (ISBN-13: 978-1-4398367-7-4)
5. Patricia Ruas-Madiedo\*, Borja Sánchez, Claudio Hidalgo-Cantabrana, Abelardo Margolles and Andrew Laws. Exopolysaccharides from lactic acid bacteria and bifidobacteria. (EDITORS) Y.H. Hui and E.O. Evranuz. Handbook of plant-based fermented food and beverage technology. 2nd Ed. CRC Press, Florida, USA. Pp.125-152 (2012, ISBN: 978-1-4398-5022-0, eBook ISBN: 978-1-4398-5023-7, doi: 10-1201/b12084-9). (Taylor & Francis Group)
6. Borja Sánchez, Lorena Ruiz, Miguel Gueimonde, Marco Ventura and Abelardo Margolles. 5.10.10.OMICS TECHNOLOGIES - EXPLORATION OF THE INTERACTION OF PRO AND PREBIOTICS WITH THE HOST. (EDITOR) Vladislav Kotchetkov. Encyclopedia of Life Support Systems (<http://www.eolss.net>) (en prensa) UNESCO Publishing-EOLSS Publishers, Oxford, UK. (2012)
7. Borja Sánchez, Irene González-Rodríguez, Clara González de los Reyes-Gavilán, Patricia Ruas-Madiedo, Abelardo Margolles. Bifidobacteria and their Interaction with the Gastrointestinal Environment. Enrica Pessione (EDITOR). En: Probiotics and humans' reciprocal reactions. Publisher: CRC Press (Taylor & Francis group), Boca Raton, FL, USA (2013) (ISBN: 9781466575554).

### **Non-SCI publications (\* denotes corresponding author).**

1. Clara G. de los Reyes-Gavilán\*, Abelardo Margolles, Patricia Ruas-Madiedo, Luis Noriega, Borja Sánchez e Isabel Cuevas. 2004. Modificación de propiedades probióticas y tecnológicas en microorganismos del género *Bifidobacterium* como consecuencia de la adquisición de resistencia a sales biliares. CTC Alimentación 21: 30-34.
2. Borja Sánchez, Miguel Gueimonde, Ana Suárez, Patricia Ruas-Madiedo y Abelardo Margolles- 2010. Interacciones de las bifidobacterias con las células intestinales humanas. CTC Alimentación 45: 7-14.
3. Press release: Descifran el genoma de una bacteria intestinal con características probióticas. <http://www.csic.es>. 2010.
4. e-article: Nuevas bifidobacterias con bajos niveles de ácido acético. R+D CSIC. URL: <http://www.dicat.csic.es/rdcsic/rdcsicesp/rdal45esp.htm> 2011.
5. e-article: Un péptido para tratar enfermedades inflamatorias intestinales. R+D CSIC. <http://www.dicat.csic.es/rdcsic/rdcsicesp/rdal48esp.htm> 2012.