

Part A. PERSONAL INFORMATION		CV date		24/04/2019
First and Family name	MARGARITA AGUILERA GÓMEZ			
Social Security, Passport, ID number	52524554Y	Age	46	
Researcher numbers	Researcher ID	M-8238-2013		
	Orcid code	0000-0002-3204-9787		

A.1. Current position

Name of University/Institution	UNIVERSITY OF GRANADA		
Department	MICROBIOLOGY		
Address and Country	SPAIN		
Phone number	626423976	E-mail	maguiler@ugr.es
Current position	ASSOCIATE PROFESSOR	From	2012
Espec. cód. UNESCO	MICROBIOLOGY 2414		
Palabras clave	MICROBIOTA, BIOTECHNOLOGY, MOLECULAR TAXONOMY, PROBIOTICS, GENETICALLY MODIFIED MICROORGANISMS. MICROBIAL ENZYMES, FOOD SAFETY		

A.2. Education

PhD	University	Year
PhD. In Pharmacy, Pharm D.	UNIVERSITY OF GRANADA	2002
Bachelor science degree in food science and technology	University of Granada	2012
Bachelor science degree in biochemistry	University of Granada	1997
Bachelor science degree in pharmacy	University of Granada	1995
Master degree in biotechnology	University of Granada	2002
master degree in microbial ecology	University of Granada	1999
Master Degree in Manufacturing of Advanced Therapy Medicinal Products, specialization as Qualified Person	Andalusian Initiative for Advanced Therapies	2010

A.3. JCR articles, h Index, thesis supervised:

- Number of doctoral theses supervised in the last 10 years: 7; 1 on-going.
- Analysis data of the Web of Science Appointments Report until 2019: Total Publications: 86 Articles, Reviews, and Regulatory Science Articles
- H Index: 18 - Average Appointments per item: 17.58
- Total times cited: 1336; Q1: 7; Total number of times cited without proper citations: 1295
- Research Periods recognised: Sexenios: 3 in 2018
- Academic Docent Periods recognised: Quinquennials: 4 (2019)

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Margarita Aguilera is Associate Professor at the University of Granada (Microbiology Department), where she is member of BIO-190 research group since 1998. She is a current member of the Institute of Nutrition and Food Technology (INYTA) and also she is member of the Institute BioHealth (IBS). She achieved her PhD PharmD at the University of Granada under the directions of Prof. Antonio Suárez, Prof. Mercedes Monteoliva and Prof. Alberto Ramos. She has a wide and continuous academic formation along the years: Bachelor Science Degree in Pharmacy (UGR, 1995), in Biochemistry (UGR, 1997), in Food Science and Technology (2012), Master Science in Microbial Ecology (UGR, 1999), and in Biotechnology (UGR, 2002). She was awarded research grants and agreements in several European countries at the GBF (Braunschweig, Germany); INRA, (Jouy en Josas, France); Yorkill

Hospital University of Glasgow, (UK); European Commission at the JRC-IHCP (Institute for Health and Consumer Protection (2006-2008) and at European Food Safety Authority (2014-2018). She has also been involved in clinical translational projects and management roles with the coordination a Pharmacogenetic Unit at the University Hospital (HUVN-Granada 2008-2012). Her main character and achievements reflect her multidisciplinary and solid expertise in the fields of microbial taxonomy and phylogeny, omics technologies, gut microbiota culture, anaerobic culturing, pharmacogenomics, genetically modified microorganisms and microbial food enzymes. She has published 45 papers in SCI impacted journals, 14 book chapters, supervised as Director and Co-director 7 PhDs, and several Master thesis and PhD students from different programs (Researcher ID M-8238-2013; Orcid code: 0000-0002-3204-9787; H-index 18). IP in three projects and collaborator in more than 20 projects at International, National and Regional under public/private/transfer of technology. Her networking will be very useful for the project development. Moreover, she has a long trajectory seating International and EU programs and courses and she has been involved actively in Innovation training docent Projects funded by UGR.

Theses related to the proposal topic and those in collaboration the Hospital HUVN translational clinical unit: 7

Part C. RELEVANT MERITS

C.1. Publications (including books): The selected publications are related to the project and are organized per year and by main topics: Omics and clinical translational research (**OMIC**), Gut Microbiota cultures (**GM**), Molecular and microbial Taxonomy (**TAX**), Genetically modified organisms (**GMO**), Food Safety Regulatory Sc (**FS**).

OMIC-2018. Jimenez G, Hackenberg M, Catalina P, Boulaiz H, Grinan-Lison C et al. Mesenchymal **stem cell's secretome** promotes selective enrichment of stem-like cells with specific cytogenetic profile. Cancer letters 2018.

OMIC-2015. Jimenez-Pranteda ML, Perez-Davo A, Monteoliva-Sanchez M, Ramos-Cormenzana A, Aguilera M. **Food Omics Validation: Towards Understanding Key Features for Gut Microbiota, Probiotics and Human Health.** Food Analytical Methods 2015;8(2):272-289.

OMIC-2016. Morata-Tarifa C, Jimenez G, Garcia MA, Entrena JM, Grinan-Lison C et al. Low adherent cancer **cell subpopulations** are enriched in tumorigenic and metastatic epithelial-to-mesenchymal transition-induced cancer stem-like cells. Scientific Reports, 2016;6:13.

OMIC-2011. Angel Garcia M, Carrasco E, Aguilera M, Alvarez P, Rivas C et al. The Chemotherapeutic Drug 5-Fluorouracil Promotes PKR-Mediated Apoptosis in a p53-Independent Manner in Colon and Breast Cancer Cells. Plos One 2011;6 (8).

OMIC-2012. Rojo Venegas K, Aguilera Gomez M, Canada Garre M, Garcia Sanchez A, Contreras-Ortega C et al. **Pharmacogenetics** of Osteoporosis: Towards Novel Theranostics for Personalized Medicine. Omics-a Journal of Integrative Biology 2012;16(12):638-651.

GM-2014. Gerasimidis K, Bertz M, Hanske L, Junick J, Biskou O et al. **Decline in Presumptively Protective Gut Bacterial Species and Metabolites** Are Paradoxically Associated with Disease Improvement in Pediatric Crohn's Disease During Enteral Nutrition. Inflammatory Bowel Diseases 2014;20(5):861-871.

GM-2013. Gomez-Llorente C, Plaza-Diaz J, Aguilera M, Munoz-Quezada S, Bermudez-Brito M et al. Three Main Factors **Define Changes in Fecal Microbiota Associated** With Feeding Modality in Infants. Journal of Pediatric Gastroenterology and Nutrition 2013;57(4):461-466.

GM-2012. Jimenez-Pranteda ML, Aguilera M, McCartney AL, Hoyles L, Jimenez-Valera M et al. Investigation of the impact of feeding *Lactobacillus plantarum* CRL 1815 encapsulated in microbially derived polymers on the rat **faecal microbiota**. Journal of Applied Microbiology 2012;113(2):399-410.

GM-2012. Jimenez-Pranteda M, Poncelet D, Elena Nader-Macias M, Arcos A, Aguilera M et al. **Stability of lactobacilli encapsulated** in various microbial polymers. Journal of Bioscience and Bioengineering 2012;113 (2):179-184.

GM-2012. Aguilera M, Rakotoarivonina H, Brutus A, Giardina T, Simon G et al. Aga1, the first alpha-Galactosidase from the **human bacteria *Ruminococcus gnavus* E1**, efficiently transcribed in gut conditions. *Research in Microbiology* 2012;163(1):14-21.

GM-2011. Fallani M, Amarri S, Uusijarvi A, Adam R, Khanna S et al. **Determinants of the human infant intestinal microbiota** after the introduction of first complementary foods in infant samples from five European centres. *Microbiology-Sgm* 2011;157:1385-1392.

GM-2010. Fallani M, Young D, Scott J, Norin E, Amarri S et al. **Intestinal Microbiota of 6-week-old Infants Across Europe: Geographic Influence Beyond Delivery Mode, Breast-feeding, and Antibiotics.** *Journal of Pediatric Gastroenterology and Nutrition* 2010;51(1):77-84.

TAX-2018. Menasria T, Aguilera M*, Hocine H, Benammar L, Ayachi A et al. **Diversity and bioprospecting** of extremely halophilic archaea isolated from arid and semi-arid wetland ecosystems for halophilic-active hydrolytic enzymes. *Microbiological Research* 2018;207:289.

TAX-2015. Perez-Davo A, Aguilera M, Gonzalez-Paredes A, Lujan Jimenez- Pranteda M, Monteoliva-Sanchez M. *Halobellus ramosii* sp nov., **an extremely halophilic archaeon isolated** from a saline-wetland wildfowl reserve. *International Journal of Systematic and Evolutionary Microbiology* 2015;65:3847-3852.

TAX-2014. Perez-Davo A, Aguilera M, Ramos-Cormenzana A, Monteoliva- Sanchez M. *Alkalibacillus almallahensis* sp nov., **a halophilic bacterium isolated** from an inland solar saltern. *International Journal of Systematic and Evolutionary Microbiology* 2014; 64:2066-2071

TAX-2009. Aguilera M, Jimenez-Pranteda ML, Kharroub K, Gonzalez-Paredes A, Durban JJ et al. *Marinobacter lacisalsi* sp nov., **a moderately halophilic bacterium isolated** from the saline-wetland wildfowl reserve Fuente de Piedra in southern Spain. *International Journal of Systematic and Evolutionary Microbiology* 2009; 59:1691-1695.

TAX-2008. Aguilera M, Teresa Quesada M, Guerra del Aguila V, Antonio Morillo J, Angustias Rivadeneyra M et al. Characterisation of *Paenibacillus jamilae* strains that **produce exopolysaccharide during growth** on and detoxification of olive mill wastewaters. *Bioresource Technology* 2008;99(13):5640-5644.

GMM-2011. Folloni S, Bellocchi G, Kagkli D-M, Pastor-Benito S, Aguilera M et al. **Development of an-ELISA Reverse-Based Assay** to Assess the Presence of Mycotoxins in Cereal Flour. *Food Analytical Methods* 2011;4(2):221-227.

GMM-2009. Aguilera M, Querci M, Pastor S, Bellocchi G, Milcamps A et al. **Assessing Copy Number of MON 810 Integrations** in Commercial Seed Maize Varieties by 5' Event-Specific Real-Time PCR Validated Method Coupled to 2 (-Delta Delta CT) Analysis. *Food Analytical Methods* 2009;2(1):73-79.

FS-2017/2018- Ricci A, et al (..Aguilera M.) et al. **List of QPS-recommended biological agents intentionally added to food or feed as notified to EFSA.** *Efsa Journal* 2017;15(3); Silano V, Bolognesi C, Castle L, Cravedi JP, Fowler P (..Aguilera M.) et al. **Safety evaluation of the food enzymes:** *Efsa Journal* 2017;15(5).; *Efsa Journal* 2017;15(10); *Efsa Journal* 2018;16(1); *Efsa Journal* 2018;16(5); *Efsa Journal* 2018;16(4); *Efsa Journal* 2018;16(5); *EFSA Journal* 2018;16(4):5228,20; *Efsa Journal* 2018;16(7); *Efsa Journal* 2018;16(7); *Efsa Journal* 2017;15(8); *Efsa Journal* 2017;15(8).

C.2. Research projects and grants

- **CONSORTIUM OBEMIRISK- Knowledge platform for assessing the risk of Bisphenols on gut microbiota and its role in obesogenic phenotype: looking for biomarkers.** Countries-Institution: Spain-UGR, Belgium-ILVO, Lodz_TUL, Slovakia-UMVP, and France-INRA. PI-Consortium coordinator: MARGARITA AGUILERA GÓMEZ. Cod. According to financier: GP/EFSA/ENCO/2018/03-GA04 Partnering grant; EUROPEAN FOOD SAFETY AUTHORITY. Duration: 29/03/2019-29/06/2021. Total amount: 100.000 EURO (200.484 Total cofunding).

- **"Hosting sites for EU-FORA Programme" MICROBIOTA ANALYSIS FOR RISK ASSESSMENT OF BISPHENOLS AND ITS POTENTIAL IMPACT ON GUT MICROBIOME DYSBIOSIS AND OBESITY** PI: MARGARITA AGUILERA GÓMEZ, Cod. According to

financer: GP/EFSA/ENCO/2018/05. Entidad financiadora: EUROPEAN FOOD SAFETY AUTHORITY. Duration: 01/09/2019-31/08/2021. Total amount: 58.700 EURO

- **Estudio de la exposición a sustitutos del bisfenol a disruptores endocrinos en niños en edad escolar y su relación con la obesidad; PI: Ana Rivas Cod.** According to financier: FUNDACIÓN MAPFRE. Duration of the project 01/02/2019 - 01/02/2020. Total amount: 40.000 EURO

- **Analysis of the global intestinal microbial diversity (bacteria, archaea, viruses, fungi) in healthy individuals vs. sick.** Search for genetic host molecular structures that are decisive in the process of microbial colonization. **PI: Margarita Aguilera:** 1 Cod. according to financier: GREIB_PT 03_2011 Start date: 01/01/2011 Duration of the project: 730 days; Total amount: 10,000

- **Development of a pharmacogenetics unit in the HVN, pilot trial to individualize oncological therapies directed with monoclonal antibodies in the clinical trial phase.** Autonomic project. **Margarita Aguilera IP.** Number of researchers: 5 cod. PI-0363/2008. Start date: 01/01/2009 Duration of the project: 1095 days Total amount: 48,300

- **Comparative pharmacogenetic study of polymorphisms of the molecular structures involved in drug resistance in progenitor cell lines of breast, colon and melanoma cancer.** National Project. **Margarita Aguilera IP.** Number of researchers: 4 cod. FIS-10/2149 Start date: 01/01/2011 Duration of the project: 761 days Total amount: 76,300

- **Development of a system of identification and selection of products and activities of interest in human nutrition and nutrition in microorganisms.** National Project. **Collaborator M. Aguilera;** Researcher: Antonio Suárez García. Scope of the project: National Collaborating Researcher Number of researchers: 3 Start date: 01/01/2007 Duration of the project: 1095 days Total amount: 90,000

- **INFABIO: Effect of diet and lifestyle on the risk of gastrointestinal infections and allergies in early life; Knowledge of the consumer attitudes and needs.** European Project, **Collaborator M. Aguilera.** Coordinator: Christine Edwards, Participants: 7 countries. BX50. Start date: 01/01/2003 Duration of the project: 1095 days Total amount: 45,000

C.3. Contracts: Contract with HERO ESPAÑA to determine the intestinal microbiota in infants receiving Lactum probiotic using molecular techniques (FISH and TRFLP). (2009); Contract as Function Group VI-15 at the European Commission. Joint Research Center. Institute for Health and Consumer Protection (2008); Seconded National Expert at the European Food Safety Authority (2014-2018); - Contract of Knowledge Transference between University and SME: OTRI- Probiotics and Fertypharm (2018-2019).

C.4. Patents: Use of the RNA-dependent protein kinase (PKR) protein or the gene encoding PKR, to obtain data useful for predicting and predict response to treatment with pyrimidine analogs patent WO2012113965-A1; ES2393984-A1. Garcia Chaves MA, Aguilera Gomez M, Calleja Hernandez MA, Marchal corrales JA, Esteban Rodriguez M et al., inventors; SAS; UGR; CSIC.

C.5. Compilation of other merits: Book chapters published: 15; Congress Communications: 110; as Invited Speaker: 10; Pharmacogenetics Unit Coordinator at UGR HVN-Hospital; TFM, DEAs, TFGs: 25; Internacionalizacion UGR: Stays: ERASMUS-PDI, English as Media of Instruction; Scientific Society Memberships: SEM(1998), ASM(2015); ISMicrobiota (2018).