DATE	11-15-2022

Part A. Personal Information

Surname(s)	Quesada	
Forename	Alberto	
Sex	M	
Age	57	
Researcher codes	WoS Researcher ID *(*)*	https://publons.com/researcher/H-2609-2015/
	SCOPUS Author ID*(*)*	https://www.scopus.com/authid/detail.uri?authorId=7103409272
	Open Researcher and Contributor ID (ORCID)	https://orcid.org/0000-0001-9952-977X

(*) At least one of these is mandatory

A.1. Current position

Post/ Professional Category	Professor	
UNESCO Code	241501 MOLECULAR BIOLOGY (MICROORGANISMS)	
Key Words	Antimicrobial resistance	
Name of the University/Institution	Universidad de Extremadura	
	Department/Centre	Biochemistry
	Full Address	Avda. De la Universidad s/n, 10003-Cáceres, Spain
	Email Address	aquesada@unex.es
	Phone Number	34-927-257106
Start date	2020 (Professor), 2001 (Associate).	

A.2. Education *(title, institution, date)*

Year	*University*	*Degree*	*Title*
1988	*Córdoba (Spain)*	*First degree*	*Biological Sciences*
1992	*Córdoba (Spain)*	*PhD*	*Biological Sciences*

A.3. Indicators of Quality in Scientific Production *(See the instructions)*

Source: Scopus (author Id=7103409272). Total Articles in Publication List: 58 Articles. Sum of the Times Cited: 2031 citations by 1586 documents. h-index: 22. Last Updated: 11/15/2022 15:52 GMT.

Part B. Free Summary of CV *(Max. of 3.500 characters, including spaces)*

Starting in January of 1989 and up to 2005, during PhD, Postdoc and earlier University positions my research contributions were focused on aspects of Plant Molecular Biology, more concretely in the identification and analysis of nitrate transporters and elements of the regulation of electron supply for nitrate and nitrite reduction. In the actual position in the Veterinary Faculty of the University of Extremadura, my interests move to antimicrobial resistance mechanisms in zoonotic bacteria, mainly enterobacteria and last resorts antibiotics like polymyxins. In the very last time, a new research line started on the regulation of tannins biosynthesis and its involvement in biotic stress of *Quercus* species.

Part C. Relevant accomplishments

C.1. Publications

1. Quesada, A., A. Galván, R. Schnell, P.A. Lefebvre, E. Fernández. 1993. Five nitrate assimilation genes are clustered in *Chlamydomonas reinhardtii. Molecular and General Genetics 240: 387-394.*
2. Quesada, A., A. Galván, E. Fernández. 1994. Identification of nitrate transporter genes in *Chlamydomonas reinhardtii*. T*he Plant Journal 6: 407-419.*
3. Galván, A., A. Quesada, E. Fernández. 1996. Nitrate and nitrite are transported by different specific transport systems and by a bispecific transporter in *Chlamydomonas reinhardtii*. *Journal of Biological Chemistry 271: 2088-2092.*
4. Marín, E., L. Nussaume, A. Quesada, B. Sotta, P. Hugueney, A. Frey, A. Marion-Poll. 1996. Molecular identification of zeaxhantine epoxidase of *Nicotiana plumbaginifolia*, a gene involved in abcisis acid biosynthesis and corresponding to *ABA* locus of *Arabidopsis thaliana*. *EMBO Journal 15: 2331-2342.*
5. Quesada, A., I. Gómez-García, E. Fernández. 2000. Involvement of chloroplast and mitochondria redox valves in nitrate assimilation. *Trends in Plant Science 5: 463-464.*
6. Quesada, A., M.I. Guijo, F. Merchán, B. Blázquez, M.I. Igeño, R. Blasco. 2007. Essential role of cytochrome bd-related oxidase in cyanide resistance of *Pseudomonas pseudoalcaligenes* CECT5344. *Applied and Environmental Microbiology 73: 5118-5124.*
7. García, N., G. Gutiérrez, M. Lorenzo, J.E. García, S. Píriz, A. Quesada. 2008. Genetic determinants for *cfxA* expression in *Bacteroides* strains isolated from human infections. *Journal of Antimicrobial Chemotherapy 62: 942-947.*
8. Hernández, M., M.R. Iglesias, D. Rodríguez-Lázaro, A. Gallardo, N. Quijada, P. Miguela-Villoldo, M.J. Campos, S. Píriz, G. López-Orozco, C. de Frutos, J.L. Sáez, M. Ugarte-Ruiz, L. Domínguez, A. Quesada. 2017. Co-occurrence of colistin-resistance genes *mcr-1* and *mcr-3* among multidrug-resistant *Escherichia coli* isolated from cattle, Spain, September 2015. Euro Surveillance, 22: 31.
9. Gallardo A, Morcuende D, Solla A, Moreno G, Pulido F, Quesada A. 2019. Regulation by biotic stress of tannins biosynthesis in *Quercus ilex*: Crosstalk between defoliation and *Phytophthora cinnamomi* infection. Physiologia Plantarum 165: 319-329.
10. Gallardo A, Iglesias MR, Ugarte-Ruiz M, Hernández M, Miguela-Villoldo P, Gutiérrez G, Rodríguez-Lázaro D, Domínguez L, Quesada A. 2021. Plasmid-mediated *Kluyvera*-like arnBCADTEF operon confers colistin (hetero)resistance to *Escherichia coli*. Antimicrobial Agents Chemotherapy 65: e00091-21.

C.2. Research Projects and Grants

1.- Title: Resistencia Frente a los Antimicrobianos de uso clínico en cepas de *Campylobacter* aisladas de los animales y humanos. *Funded by:* Ministerio de Economía y Competitividad (AGL2012-39028-C03-03). *From: January-2013. To: December-2015. Principal Investigator:* Alberto Quesada (UEX). *Amount:* 58.500,0 €

2.- Title: Análisis molecular de determinantes de resistencia frente a la colistina. *Funded by:* Ministerio de Economía, Industria y Competitividad (AGL2016-74882-C3-2-R). *From:* January-2017. *To:* December-2019. *Principal Investigator:* Alberto Quesada (UEX). *Amount:* 110.000 €.

3.- Title: Resistencia a la colistina en enterobacterias patógenas para el hombre: mecanismos moleculares, potencial de transmisión y su asociación con la resistencia a otros antimicrobianos. *Funded by:* Consejería de Economía e Infraestructuras, Junta de Extremadura (IB16073). *From: June-2017. To: June-2020. Principal Investigator:* Alberto Quesada (UEX). *Amount:* 150000 €.

4.- Title: Un abordaje integral para valorar la eficacia de los antibioticos frente a las enterobacterias: monitorizacion de microorganismos centinela, busqueda de alternativas en nutricion animal y estudio de nuevos mecanismos de resistencia (ib20182). *Funded by*: Consejería de Economía, Ciencia y Agenda Digital, Junta de Extremadura (IB20182). *From*: Junio-2021. *To*: Junio-2024. *Principal Investigator:* Alberto Quesada (UEX). *Amount:* 149999 €.

5.- Title: Reduccion de la resistencia a los antimicrobianos en enterobacterias zoonoticas. *Funded by*: Ministerio de Ciencia e Innovación (PID2020-118405RB-I00). *From*: September-2021. *To*: September-2024. *Principal Investigator:* Alberto Quesada (UEX). *Amount:* 183920 €.

C.3. Direction of PhD projects

- University of Córdoba: Ia Gómez (2000).
- University of Extremadura: María Lorenzo (2009), Nuria García (2010), Felipe Acera (2011), Gonzalo Palomo (2011), Maria Jorge Campos (2011), María Isabel Carmona (2016), Lorena Hormeño (2016), Rocío Iglesias (2018), María Gil-Molino (2022).
- University Complutense: Diego Flores-Cuadrado (2017).

Source: TESEO.

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