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Dept. of Biotechnology (ETSIA, UPM)



Qualifications	Degree in Pharmacy, University Complutense of Madrid (UCM) 1986 PhD in Pharmacy, UCM 1990 (doctorate extraordinary award)
Employment	2012- Associate Professor (PTU) Microbiology, UPM. 2004-12 Associate Professor Microbiology, UPM. 1994-2004 Postdoctoral contract, UPM. 1992-1994 Postdoctoral stay in the Toxicology dept Sandoz A.G., Basel, Switzerland.
Board and committee positions	2013- Member of the Doctorate Commission of Biotechnology dept.
5 Selected publications	B. Benito and M. Gonzalez-Guerrero “Unravelling potassium nutrition in ectomycorrhizal associations” <i>New Phytologist</i> (2014) 201: 707-709. B. Benito , R. Haro, T. Cuin, A. Amtmann and I. Dreyer. “The twins K ⁺ and Na ⁺ in plants”. <i>Journal Plant Physiol</i> (2014). 171: 723-731. Benito, B. , Garcíadeblás, B. Rodríguez-Navarro, A. HAK transporters from <i>Physcomitrella patens</i> and <i>Yarrowia lipolytica</i> mediate sodium uptake. <i>Plant and Cell Physiology</i> (2012) 54:1441–1454 A. Rodríguez-Navarro and B. Benito . “Sodium or potassium efflux ATPase A fungal, bryophyte, and protozoal ATPase”. <i>Biochimica Biophysica Acta</i> , (2010). 1798: 1841-1853. B. Benito , D. Wahl, N. Steudel, A. Cordier and S. Steiner “Effects of Cyclosporine A on the Rat Liver and Kidney Protein Pattern and the influence of Vitamine E and C coadministration” <i>Electrophoresis</i> (1995), 16, 1273-1283.
Patents	A. Rodríguez-Navarro, B. Benito y B. Garcíadeblás. Patent title: “Sodium ATPase gene of <i>Neurospora crassa</i> and its use to improve salt tolerance”. Spanish patent: P9902778, Priority country: Spain, UPM.
Peer review	- Peer review services for: Journal of Experimental Botany, Plant Physiology, Journal of Plant Physiology and New Phytologist. - Evaluator of research projects at the Spanish National Evaluation and Foresight Agency (ANEP).
Other appointments	Invited speaker to: PUMPKIN Center, Aarhus University, Denmark. “ENA ATPases, the other sodium pump”. 2011; Opening conference of postgraduate courses, Centro de Investigación Científica de Yucatán. Mérida, México. “ <i>Physcomitrella patens</i> como modelo para el estudio de la homeostasis iónica y la tolerancia a la salinidad”. 2010.