



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE \_\_\_\_4851\_\_\_\_

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di \_\_Biotecnologie Mediche e Medicina Traslazionale.

Scientist- in - charge: \_\_Dott.ssa. Laura Mauri\_\_\_\_\_

[Rafael Picazo Espinosa]

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Picazo Espinosa
Name	Rafael
Date of birth	[05, 12, 1983]

### PRESENT OCCUPATION

Appointment	Structure
Jobseeker	--

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree in Biology	2003-2008	University of Granada, Spain	2008
Specialization			
PhD in Microbiology	2009-2013	University of Granada, Spain	Not earned.
Master in Microbiology	2008-2010	University of Granada, Spain	2010
Degree of medical specialization	--	--	--
Degree of European specialization	--	--	--
Other	--	--	--



## REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of Association	City

## FOREIGN LANGUAGES

Languages	level of knowledge
English	C2 - Competent User
French	B2 - Independent User
Portuguese	B2 - Independent User
German	A2+/B1 - Independent User
Serbian	A1/A2 - Basic User

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2007-2008	Initiation Scholarship at Mixobacteria Group CVI 103, Microbiology Department, Faculty of Sciences, University of Granada, Spain.
2007-2008	Collaboration Scholarship at Mixobacteria Group CVI 103, Microbiology Department, Faculty of Sciences, University of Granada, Spain.
2009-2013	PhD student under the Excellence Scholarships Program at Instituto del Agua (Water Research Institute), Universidad de Granada. C/ Ramón y Cajal No 4, 18003 Granada, Spain. PhD degree not earned.
2019-2020	Research Scholarship in Chemotherapy for Biology Degree holder under the POINT4PAC PrecisionOncology by Innovative Therapies and Technologies project (POCI-01-0145-FEDER-016405) at Instituto Politécnico de Leiria - Faculdade de Ciências da Universidade de Lisboa-BiolSI, Laboratório Bugworkers at Tec Labs, in collaboration with iMed-Faculdade de Farmácia da Universidade de Lisboa.

## TRAINING OR RESEARCH ACTIVITY

2009-2013 - Research in the biofuels field, particularly in the study of lipase activity from supernatants of several bacterial strains isolated from wastewater treatment plant sludges.

2010-2011 - Laboral Tutor. Practical formation in the laboratory, tutorization and evaluation of a High Level Professional Education (Health speciality) student

2011-2012 - Conducting practical classes (9 credits, 90 hours, the maximum stipulated for a PhD student under the Excellence Scholarships Program) in General Microbiology (Biology degree) and Microbiology (Optics and Optometry degree).

2012 - Research Visit at Technology and Metallurgy Faculty, University of Belgrade (Serbia).

Collaboration with the Biotechnology and Biochemical Engineering Group, and realization of studies of *Candida antarctica* lipase activity in different supports and conditions.



2013 - Research Visit at Textiles and Clothing Department, University of California at Davis, Davis (USA)

Development of bound enzyme systems on high specific surface nanocellulosic materials

2019-2020 - Production of organic and aqueous extracts from Pharmabug® collection bacterial strains, HTS (high throughput screening) of obtained extracts against tumour cell lines (HCT-116 colon adenocarcinoma cell line) and Solid Phase Extraction fractionation of extracts for further HTS screening and characterization.

## PROJECT ACTIVITY

Year	Project

## PATENTS

Patent

## CONGRESSES AND SEMINARS

Date	Title	Place
2020	Encontro Nacional sobre Investigação em Alterações Climáticas Poster presentation: Deep sea ocean bacteria may be the source of sustainable anti-cancer drugs	Faculdade de Ciências da Universidade de Lisboa.
2016	MIT Short Programs Courses. Course: Climate Change - From Science to Solutions	Massachusetts Institute of Technology. 77 Massachusetts Avenue, Bldg E48401 Cambridge, MA 02142
2012	39 th International Conference of the Slovak Society of Chemical Engineering. Poster presentation: Enzymatic Production of Bioactive Protein Hydrolysates from Egg White: Effects of Egg White Protein Pretreatment.	Slovak Society of Chemical Engineering, Slovakia.
2011	XXIII National Congress of the Spanish Microbiology Society.	Spanish Society of Microbiology, Spain.
2011	X National Congress on Lupus.	Spanish Federation of Lupus and Granada Association of Lupus, Spain.
2010	Course on Genomes Annotation and Assembly by Supercomputation	University of Castilla y León, Spain. University of Granada, Spain.



		Foundation of the Center of Supercomputation of Castilla y León, Spain.
2006	Science and Environmental Education Sessions	University of Granada, Spain.
2006	Course on Biology of the Reproduction and Development.	University of Granada, Spain.
2005	International Course in Diagnosis in Medical Parasitology (1 st Edition)	Institute of Biotechnology, University of Granada, Spain.
2004	I Introduction Course in Iberian Bats: Biology and Conservation.	University of Granada, Spain

## PUBLICATIONS

### Books

Bioresources for Third-Generation Biofuels, Biofuel's Engineering Process Technology, Dr. Marco Aurelio Dos Santos Bernardes (Ed.), InTech, DOI: 10.5772/17134. Available from:

<https://www.intechopen.com/books/biofuel-s-engineering-process-technology/bioresources-for-third-generation-biofuels>

### Articles in reviews

Comparative Study of Batch and Fluidized Bed Bioreactors for Lipase-Catalyzed Ethyl Cinnamate Synthesis

Sonja M. Jakovetić, Nevena D. Luković, Nevenka M. Bošković-Vragolović, Dejan I. Bezbradica, Rafael Picazo-Espinosa, and Zorica D. Knežević-Jugović

Industrial & Engineering Chemistry Research 2013 52 (47), 16689-16697

DOI: 10.1021/ie402069c

### Congress proceedings

Deep sea ocean bacteria may be the source of sustainable anti-cancer drugs

Rafael Picazo-Espinosa (Polytechnic Institute of Leiria), Catarina I. G. Pinto (Research Institute for Medicines - iMed.Ulisboa; Faculty of Pharmacy, Universidade de Lisboa), Vanda Marques (Research Institute for Medicines - iMed.Ulisboa, Faculty of Pharmacy, Universidade de Lisboa), Cecilia M. P. Rodrigues (Research Institute for Medicines - iMed.Ulisboa, Faculty of Pharmacy, Universidade de Lisboa), Helena Vieira (BiolSI - Biosystems & Integrative Sciences Institute, Faculty of Sciences, University of Lisboa)

Lipase Activity Assay: Improvements to the Classical p-Nitrophenol

Palmitate Spectrophotometrical Method.

Rafael Picazo Espinosa, University of Granada, Spain. 41st International Conference of the Slovak Society of Chemical Engineering (SSCHE), Tatranské Matliare in Hotel Hutník (Slovakia), 26-30 May 2014 (Session Reaction Engineering and Catalysis ). <http://doi.org/10.5281/zenodo.47427>

Enzymatic Production of Bioactive Protein Hydrolysates from Egg White: Effects of

Egg White Protein Pretreatment.

Zorica D. Knežević-Jugović, Andrea B. Stefanović, Milena G. Žuža, Mirjana G. Antov, Picazo



<p>Espinosa Rafael, Verica Manojlović, Branko Bugarski. Proceedings of the 39th International Conference of Slovak Society of Chemical Engineering, J. Markoš, ed., Tatranske Matliare, Slovakia, 21-25. May, 2012, Proceedings, pp. 1419-1425 (ISBN 978-80-89475-04-9).</p>
<p>Utilización de grasas de aguas residuales para la producción de micro-combustibles (Utilization of wastewaters fats for the production of micro-fuels) Picazo-Espinosa R , Hernández S , SantaCruz-Calvo L , Vílchez JI , Narváez-Reinaldo JJ , González-López J , Manzanera M . Departamento de Microbiología . Instituto Universitario de Investigación del Agua . Universidad de Granada. XXIII Congreso Nacional de la Sociedad Española de Microbiología. 11-14 de julio de 2011 (Microbiology Department, Water Research Institute, University of Granada. 23rd Spanish Society of Microbiology National Congress, Salamanca, Spain, July 11th-14th 2011).</p>
<p>Utilización de la aplicación multiplataforma i-Tunes como herramienta de apoyo para la docencia universitaria (i-LabBook) (Use of the multiplatform application i-Tunes as university education tool (i-LabBook)) Picazo-Espinosa R , SantaCruz-Calvo L , Vílchez JI , Narváez-Reinaldo JJ , Caña-Roca JF , Domínguez T , García DC , Alarcón A , Vilchez S , Manzanera M . Departamento de Microbiología . Instituto Universitario de Investigación del Agua . Instituto Universitario de Biotecnología . Departamento de Bioquímica . Universidad de Granada. XXIII Congreso Nacional de la Sociedad Española de Microbiología (Microbiology Department, Water Research Institute, Biotechnology Department, Biochemistry Department, University of Granada. 23rd Spanish Society of Microbiology National Congress, Salamanca, Spain, July 11th-14th 2011).</p>
<p>Rizorremediación de suelos sometidos a sequía con especies tolerantes a la falta de agua (Rhizoremediation of draught affected contaminated soils with water scarcity tolerant species) Picazo-Espinosa R , SantaCruz-Calvo L , Vílchez JI , Narváez-Reinaldo JJ , Julca-Chávez I , Calvo C , González-López J , Manzanera M . Departamento de Microbiología . Instituto Universitario de Investigación del Agua . Universidad de Granada. XXIII Congreso Nacional de la Sociedad Española de Microbiología (Microbiology Department, Water Research Institute, University of Granada. 23rd Spanish Society of Microbiology National Congress, Salamanca, Spain, July 11th-14th 2011).</p>

## OTHER INFORMATION


Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.



Place and date: \_\_\_\_Granada, \_07/12/2021\_\_