

PERSONAL INFORMATION

Name: **Puig Castellví, Francesc**

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PROFESSIONAL EXPERIENCE

06/2021 – Present *EGID/Inserm* (Lille, France). **Postdoctoral researcher.**

Tasks: Set-up the data analysis workflows and databasing system for the metabolomics platform. Study of the human metabolome and its interaction with the gut microbiome in the context of the diabetes disease.

10/2018 – 02/2021 *AgroParisTech* (Paris, France). **Postdoctoral researcher.**

Tasks: Characterization of the microbial degradation of waste material with metabolomics, metataxonomics, metagenomics and chemometric approaches. Supervision of a master student.

02/2014 – 07/2018 *CSIC* (Barcelona, Spain). **PhD.**

Tasks: Analysis of the alterations in the metabolome of *Saccharomyces cerevisiae* derived from environmental perturbations with chemometrics.

07/2012 – 09/2013 *Laymatec SL* (Tarragona, Spain). **Lab technician + quality control.**

Tasks: Implementation of a microbiology unit in a water quality test laboratory in accordance to ISO standards.

EDUCATION

2014 – 2018 PhD in Analytical Chemistry and Environment. University of Barcelona (Spain).

2011 – 2012 MSc in Biotechnology and genetics. University of the Balearic Islands (Spain).

2008 – 2012 Degree in Biochemistry. University of Rovira I Virgili (Spain).

2006 – 2010 Degree in Chemistry. University Rovira I Virgili (Spain).

SCIENTIFIC CONTRIBUTIONS

I have published 17 articles in scientific journals.

TEACHING ACTIVITIES

2019 – 2020 Lecturer at the “Ecotechnologies for Sustainability and Environment Management” Master program from École Polytechnique (Paris, France). Microbial ecology for the environment Unit. 2 h/year (2 years).

2020 – 2021 Lecturer at the advanced course entitled “Metabolomics as a tool for environmental research”. Summerschool oriented to master and PhD students. Universidade de Aveiro (Aveiro, Portugal). 2 h/year (2 years).

REVIEWING ACTIVITIES

2016 – present Reviewer for scientific journals: *Analytical Chemistry*, *Chemometrics and Intelligent Laboratory Systems*.

2020 Proposal evaluator.

SCIENTIFIC SOCIETIES

- 2020 – present** Member of the RFMF (Réseau Français de Métabolomique et Fluxomique).
2016 – present Member of the GERMN (Specialized Group in NMR of Spain).

LANGUAGES

- Spanish** Native
Catalan Native
English Professional working proficiency
French Professional working proficiency

COMPUTER SKILLS

- Windows and Linux environments
- Office and OpenOffice
- NMR software: MNova, TopSpin, NMRProcFlow
- LC-MS software: MassLinx, Xcalibur.
- Multivariate analysis: PCA, PLS, MCR, ICA, CCA...
- Domain of programming in Matlab. Toolboxes: PLS_Toolbox, bioinformatics...
- Domain of programming in R. Packages: ggplot2, tidyverse, igraph, phyloseq, mixomics...
- Basic domain of programming in Python.
- Basic domain of web creation: HTML, CSS, HUGO.

AWARDS

- Best PhD Thesis in NMR, awarded by the specialized group in NMR from the Spanish Royal Society of Chemistry.
- Best poster at the Chemometrics in Analytical Chemistry congress (Barcelona, Spain). Title: *“Chemometric Strategy for Untargeted ¹H NMR Metabolic Profiling of Yeast Extracts using MCR-ALS”*.