

Mònica Escolà Casas

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Professional Experience

PostDoc at IDAEA (Spanish National Research Council) (Barcelona) 1-2-2020 until now
Beatriu de Pinós fellow with the project EXSIMBIO, which studies root-biofilm interactions and its applications to wastewater treatment.

Research Technician at Catalan Institute for Water Research (Girona) 19-8-2019 to 31-1-2020
Initial implementation of the sewage-epidemiology section of the European Project "SCOREWater".

Scientist at MS-Omics (Copenhagen and Vedbaek) 3-4-2018 to 31-3-2019
Analytical-chemistry method development, experimental design, sample management, sample analysis and data processing.

Gap year 1-3-2017 to 2-4-2018
Travelling through South America.

Research Assistant at Aarhus University (Roskilde) 1-11-2015 to 28-2-2017
Environmental research: project coordination, experimental design, analytical-chemistry method-development and data analysis

Education

PhD in Environmental Sciences 11-2012 to 10-2015
Aarhus University, Department of Environmental Science (Roskilde)
Research stay at Anoxkaldnes (Lund)

- PhD project: "Biofilm systems for the removal of micro-pollutants from wastewater"

MSc in Environmental Chemistry and Health 10-2010 to 6-2012
University of Copenhagen, Det Biovidenskabelige Fakultet (Copenhagen)

- MSc project: "Analysis of Antimalarial Drugs in Water"

Bachelor in Environmental Sciences 10-2003 to 6-2008
Universitat de Barcelona, Facultat de Biologia (Barcelona)

- BSc project: "Nitrate elimination from water by ion-exchange resins and re-valorization of the residue"

Research Experience

Expertise in advanced wastewater treatment

- Moving Bed Biofilm Reactors (MBBRs), Sand Filtration, Constructed Wetlands, Ozonation and Sludge Reactors
- Removal of trace organic pollutants
- Water quality analysis

Experimental design and interpretation of experimental data

Analytical chemistry

- Method development, optimization and analysis by HPLC-MS/MS (Triple Quadrupole), High Resolution MS/MS (Orbitrap), HPLC-UV and GC-MS
- Quantification and identification synthetic organic-compounds, biomarkers and metabolites
- Separation, quantification and identification of enantiomers
- Extraction techniques

Publications

17 publications (7 as **first author**) in peer-reviewed scientific journals

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Assistance to 5 international conferences with poster presentation and to 1 **platform presentation** in the conference Micropol 2015 (Singapore)