



COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Carla Patrícia Silva

Type (Academic or Industrial): Academic

Country: Portugal

Leadership position in the COST:

Working Group in which you are involved: WG1

E-mail: patricia.silva@ua.pt

Laboratory/Company: CESAM, University of Aveiro (UA)

Laboratory/Company info (limited to 400 characters):

CESAM is an UA Associated Laboratory evaluated as Excellent Research Unit by FCT (2019) and a multi- and interdisciplinary unit that gathers researchers from 5 UA Departments (Environment, Biology, Physics, Chemistry, Geosciences) and from Univ. Lisbon. In the last 5 yrs, CESAM members have published 2500 ISI papers, of which 60% in international collaborations. CESAM's facilities are fully equipped with cutting edge resource.

Link to the home page of the Laboratory/Company:

<http://www.cesam.ua.pt/>

<http://www.cesam.ua.pt/patriciasilva>

Fields of expertise (limited to 400 characters):

- o Development of analytical techniques (e.g. ELISA, HPLC, MEKC) for the quantification of pharmaceuticals in the aquatic environment
- o Evaluation of the persistence of antibiotics in the aquatic environment by means of photodegradation studies
- o Production, characterization and application of alternative adsorbent materials from residues
- o Application of photocatalytic and adsorptive processes for water remediation

5 Main publications or patents:

- Science of the Total Environment 749 (2020) 141661 (10.1016/j.scitotenv.2020.141661)
- Environmental Research 188 (2020) 109730 (doi: 10.1016/j.envres.2020.109730)
- Journal of Molecular Liquids 299 (2020) 112098 (doi: 10.1016/j.molliq.2019.112098)
- Journal of Hazardous Materials 370 (2019) 212-218 (doi: 10.1016/j.jhazmat.2018.02.053)
- Bioresource Technology 250C (2018) 888-901 (doi: 10.1016/j.biortech.2017.11.102)

Collaborations:

- Portugal: within UA - Dep. Chemistry; Dep. Environment and Planning; Dep. Biology; outside UA – ESTESC; industries such as RAIZ, Navigator Company and Águas de Portugal
- Abroad: Germany - BAM, Univ. Humboldt, Technical Univ.; Spain - Univ. León, INCAR; Italy - Istituto Italiano di Tecnologia

Facilities:

University of Aveiro, and specifically Department of Chemistry and CESAM, offer facilities fully equipped with cutting edge equipment- and human-resources.