

## CV

Luis Cruz completed a PhD in Chemistry (2010) at Faculty of Sciences of University of Porto (FCUP) under Prof. Victor Freitas supervision. Between 2011-2016, he was post-doc researcher under a FCT fellowship. In 2017, LC got a Researcher Assistant position at REQUIMTE-LAQV in the frame of a QREN project (NORTE-01-0145-FEDER-000011) and since 2018 he is an Independent Researcher in Food Quality and Technology Group. LC has a total of 33 full papers (12 as corresponding author) in international peer reviewed journals (h-index 11) and one patent submitted (NPAT353'2019 - Lipophilization of flavylum salts, biological properties and technological applications). He also has 2 book chapters, 12 oral presentations and 36 poster communications in national and international meetings.

LC became an expert in anthocyanins and flavylum chemistry which include synthesis, characterization and physicochemical studies for food, cosmetic and energy applications. In the last 5 years, LC extended his research activities in an independent manner, entering into new research topics not considered by his group before such as new strategies for the color stabilization of anthocyanins by developing innovative lipophilization methods and through the interaction with ionic liquids, micelles, cucurbiturils and dendrimers.

In 2017, he was the Scientific Coordinator of the funded project "ANTHOPHILIC: Development of novel anthocyanin-lipophilic bioactives for technological applications" in collaboration with Prof. Pina group from UNL. He is currently Principal Investigator of the FCT project FoodSmarTag "Novel Anthocyanin-Based Smart Sensors for Food Packaging" (PTDC/OCE-ETA/31250/2017, 228.235,90 €), having UA and UNL as partners. Furthermore, he is team member of several FCT funded projects namely FoodNanoSense (PTDC/AGR-TEC/6547/2014), ANTHO4SKIN (PTDC/AGR-TEC/3078/2014), SOLFLAV (PTDC/QEQ-QFI/1971/2014), WINPUT (PTDC/QUI-OUT/29013/2017). He is also involved in the European Project IBERPHENOL consortium (0377\_IBERPHENOL\_6\_E). He participated in the organization committee of the 7th International Workshop of Anthocyanins 2013 and XXIV Luso-Galego Chemistry Meeting 2018.

Luis Cruz concluded the supervision of one MSc student (Marta Guimarães), one MSc fellow (Natércia Teixeira), one PhD student (André Sousa), one post-doc fellow (Joana Sousa) and several graduated students. Currently, he is supervising one MSc fellow (Marta Guimarães), one post-doc (Hiléia Souza) and one PhD student (Vânia Gomes) in a frame of FoodSmarTag project. Concerning teaching activities, he was invited assistant of organic chemistry classes at FCUP (2007/2008) and he was lecturer at Escola Superior de Saúde from Polytechnic Institute of Porto (2017/2018). In addition, Luis Cruz has established solid international networking with experts in the anthocyanins field namely with R. Blackburn from University of Leeds, K. Yoshida from Nagoya University, O. Dangles from University of Avignon and recently with Prof. Eduardo Megia from USC. He has also been collaborating with some companies (Smallmatek, Keracol).