

## ***Biorefinery: Challenges on making Science and changing lives in Amazon***

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The Biorefinery is a concept through which fuels, plastics, and other important chemicals can be obtained from renewable sources, replacing their traditional extraction, contributing to the reduction of pollutant emissions and greenhouse gases. In this opportunity, concepts, possibilities, and strategies related to the biorefinery will be presented, such as catalysis and the preparation of biomaterials considering the Amazonian reality, its oils, butters, fruits, and residues, as well as the technologies and research developed by the University and its interaction with society to overcome the contradictions of this region, so important for the planet.

### **Biography**

Luís Adriano Nascimento was born in Belém and obtained his B.Sc. (2002), M.Sc. (2006) and Ph.D. (2011) at the Federal University of Pará (Brasil), and was post doctorate fellow (2021-22) at the Universidad de Córdoba (Spain). After an Adjunct Professor appointment (2010) at Federal Institute of Pará (Castanhal, Brazil), since 2011, he has been an Associate Professor at the Institute of Biological Sciences of the Federal University of Pará, where he was Director of the Faculty of Biotechnology between 2016 and 2017. Since the inauguration of the Guamá Science and Technology Park in July 2016, he has been vice-coordinator of the Amazon Oils Laboratory, where he is dedicated to research and service activities, serving both large companies such as Agropalma, Natura, Beraca, Amazon Oil, and DendeTauá, as well as cooperatives and associations of family farmers. He works in the areas of Biofuels and Residual Biomasses, waste valorization, catalyst preparation, as well as studies with vegetable oils and fats and cyanobacteria. He is affiliated with the Graduate Programs in Chemistry (PPGQ) and Biotechnology (PPGBIOTEC). He has experience in Chemistry, with emphasis on Chemical Kinetics and Catalysis, Chemistry of Natural Products, Oleochemistry, and Inorganic Physical Chemistry and he has been involved in national and international scientific collaborations with partners from countries such as Spain, Italy, France, the United States, Thailand, Canada, Mexico, Ecuador, and Cameroon. He is a guest editor for the journals: *Molecules*, *Polymers*, and *Frontiers in Chemistry*. Currently, he is the Coordinator of the Graduate Program in Biotechnology, Member and President of the UFPA SISGEN (National System for the Management of Genetic Heritage and Associated Traditional Knowledge) Committee, as well as a member of the Brazilian Chemical Society and the Brazilian Catalysis Society, which selected him as "Catalysis Researcher 2021", an award that recognizes researchers under 40 years old who have made outstanding contributions to catalysis development in our country and the dissemination of Brazil on the international stage.