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Personal Profile

Brendo Araujo Gomes is a biologist with a PhD in Plant Biotechnology and Bioprocesses from the Federal University of Rio de Janeiro (UFRJ). He is currently a FAPESP postdoctoral researcher at the School of Public Health, University of São Paulo (FSP-USP), working at the interface of natural products, mass spectrometry, metabolomics, chemoinformatics, valorization of food and agro-industrial waste and biodiversity-based bioprospection. His research focuses on the chemical and biological investigation of plant-derived natural products, with emphasis on LC-MS/MS-based metabolite annotation, dereplication strategies, chemometric analysis, molecular networking, molecular modeling and computational approaches for the prioritization of bioactive compounds. He has experience with digital platforms and workflows such as MZmine, GNPS/Feature-Based Molecular Networking, SIRIUS/CSI, MetaboAnalyst, *in silico* prediction tools and multivariate data analysis applied to natural products research. He has contributed to studies involving Brazilian biodiversity, bioactive metabolites, antiviral, antileishmanial and antivenom-related compounds, combining analytical chemistry, computational tools and biological interpretation. He also works on marker discovery, machine learning models, quality control of natural products and food matrices, and chemometric approaches to understand biotic and abiotic influences on chemical profile.