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Dr. Simony Carvalho Mendonça is Assistant Professor at the Faculty of Pharmacy, Federal University of Rio de Janeiro (UFRJ). She holds a Ph.D. in Natural Products Chemistry from the Institute of Natural Products Research (IPPN-UFRJ). Her academic and professional background encompasses Pharmacy, Natural Products Chemistry, Pharmacognosy, Analytical Chemistry, and Mass Spectrometry. Her work focuses on the discovery and characterization of bioactive compounds from Brazilian biodiversity, employing advanced analytical techniques including LC-MS/MS, GC-MS, metabolomics, chemometrics, and countercurrent chromatography. She has experience in plant extract dereplication, isolation and structural characterization of secondary metabolites, and the development of analytical methods for complex natural matrices. More recently, she has incorporated computational approaches, machine learning, and artificial intelligence into metabolomics and natural products studies. Current interests include the identification of plant-derived metabolites with potential applications against emerging and neglected infectious diseases, as well as the promotion of biodiversity-based innovation and bioeconomy initiatives. This multidisciplinary expertise enables the integration of fundamental science with technological development and applied research. Through innovative analytical strategies and collaborative interdisciplinary research, she seeks to advance knowledge on natural products and promote the sustainable use of biodiversity, contributing to the development of novel solutions for global health challenges.	