

Aula Burdese – 14/09/2026 h 11:00

Seminar title: “Playing with LEGO at the Atomic Scale: Ionic Modulation of Transition-Metal Oxides for Biomaterials Design”

Short CV:

Marcelo de Assis is a Researcher at the Institute for Advanced Marine Studies (IEAMar), São Paulo State University (UNESP), Brazil, and Principal Investigator of the Sustainable Materials and Interfaces for Life and Environment Laboratory (SMILE Lab). He holds a PhD in Chemistry through a joint doctoral program between the Federal University of São Carlos (UFSCar), Brazil, and Universitat Jaume I (UJI), Spain. His international research experience includes a Marie Skłodowska-Curie Fellowship at the International Iberian Nanotechnology Laboratory (INL), Portugal, a Margarita Salas Fellowship at Universitat Jaume I (UJI), and a Juan de la Cierva Fellowship at Universidad Católica de Valencia (UCV), Spain. His research focuses on the design of functional nanomaterials and biomaterials for regenerative medicine, particularly transition-metal oxides, defect and ionic engineering, reactive oxygen species modulation, marine-derived biomaterials, and advanced manufacturing approaches such as electrospinning and 3D bioprinting. He is currently the Principal Investigator of the FAPESP-funded ROS4Heal project, which investigates responsive biomaterials based on semiconductor nanoparticles for tissue regeneration.