



Monielle Sant'Ana Leal, PhD
Postdoctoral Researcher in Tissue
Engineering and Regenerative Medicine

Dr. Monielle Sant'Ana Leal is a biologist with MSc and PhD degrees in Sciences from the Federal University of São Paulo (UNIFESP), Brazil, with training in Structural and Functional Biology. She currently conducts research at the Brazilian Center for Research in Energy and Materials (CNPEM), working in the fields of Tissue Engineering and Regenerative Medicine, with a focus on the development and application of advanced human skin models for the investigation of pathophysiological mechanisms and the evaluation of therapeutic strategies.

Her research focuses on understanding the cellular and molecular mechanisms that regulate inflammation, wound healing, and tissue regeneration, particularly in conditions associated with metabolic and inflammatory dysregulation. Her studies combine tissue engineering and experimental biology approaches to investigate fundamental processes involved in the maintenance and restoration of tissue homeostasis.

Currently, she investigates the factors that impair tissue repair in diabetes, with the goal of identifying biological mechanisms relevant to the development of innovative therapeutic strategies. Her work contributes to advances in regenerative medicine, translational research, and alternative methods to animal use.