Sébastien Blaise is an Associate Professor in Animal Physiology at the University of Reims Champagne-Ardenne and co-leader of Team 2, *Matrix Aging and Vascular Remodeling*, within the MEDyC laboratory (UMR CNRS 7369). A physiologist by training, he completed his PhD at the NGERE unit in Nancy, where he developed one of the first experimental models of fetal programming and demonstrated how maternal diets depleted in methyl-group donors predispose offspring to non-alcoholic steatohepatitis (NASH). He then pursued postdoctoral research at the IGBMC (Strasbourg), focusing on the role of MMP11 and establishing mechanistic links between obesity and cancer biology.

His research at MEDyC examines how vascular extracellular matrix aging contributes to cardio-metabolic disorders. A first major axis investigates the early degradation of elastic fibres induced by metabolic syndrome components—including type 2 diabetes, obesity and NASH—characterised by the increased production of elastin-derived peptides (EDPs). A second axis explores how these EDPs actively participate in the progression of metabolic dysfunction. A third axis focuses on identifying therapeutic strategies capable of protecting vascular elastin from premature aging.

Dr. Blaise has authored **51 publications indexed in Scopus** (1,920 citations; h-index 26) and contributes to multiple collaborative ECM and metabolic research initiatives. He is a member of the administrative board of the French Obesity Research Association (AFERO) and supervises undergraduate to doctoral students, promoting interdisciplinary training at the interface of physiology, matrix biology and metabolic disease.