Stephan E. Lehnart, M.D. Dr.med.
Professor of Translational Cardiology, Department of Cardiology and Pneumology
University Medical Center Göttingen, Georg-August University Göttingen, Germany

At the Heart Research Center Göttingen, our interdisciplinary team identifies the molecular mechanisms that underlie key processes of heart muscle function and the pathophysiology of frequent and rare cardiovascular diseases. We combine a broad spectrum of quantitative and advanced proteomic and high-resolution imaging techniques from the in vivo to subcellular levels. Major examples of our research interests are medically relevant membrane protein complexes: Dysferlin, Phospholamban, and Ca^{2+} transporters, as well as the development of potential therapeutic interventions. I am a founding core-PI of the campus-wide Excellence Cluster "Multi-scale Bioimaging – from Molecular Machines to Networks of Excitable Cells (MBExC)" (PMID: 37806897). Recent discoveries of the MBExC include the elucidation of the roles of different Ferlin proteins in cardiac vesicle fusion and membrane repair (PMID: 39011635). The biomedical spectrum of available models covers a human stem cell biobank, bioengineered tissues, organoids, and novel research strategies for in-depth analysis of cardiac biopsies from patients (PMID: 36084744). https://mbexc.de/