



Melike Lakadamyali, PhD

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Super-Resolution Imaging of Chromatin Structure and Dynamics in Health and Disease

Dr. Lakadamyali obtained her BS in Physics in 2001 from the University of Texas, Austin and her PhD in Physics in 2006 from Harvard University. Dr. Lakadamyali started her independent group at ICFO-Institute of Photonic Sciences in Barcelona in 2010 and was awarded tenure in 2015. In 2017 she moved to the University of Pennsylvania's Department of Physiology at the Perelman School of Medicine as an Assistant Professor and was promoted to Associate Professor in 2020.

She received several honors including the European Molecular Biology Organization (EMBO) Young Investigator award, Technical University of Munich-Institute for Advanced Study Hans Fischer Fellowship and the Linda Pechenik Montague Investigator award. Her research focuses on the development of advanced light microscopy methods that provide high spatial and temporal resolution. Her lab is applying these advanced microscopy methods to study how the cytoskeleton and motor proteins regulate trafficking and spatial organization of organelles in the cytoplasm. In addition, her lab is studying how chromatin structure regulates gene activity and cell identity.