

Peipei Ping

Dr. Peipei Ping is Professor of Physiology, Medicine/Cardiology, and Bioinformatics; Director of Integrated Data Science Training in Cardiovascular Medicine at UCLA. She is internationally recognized for her achievements in multi-omics phenotyping, mitochondrial biology, data science, and cardiovascular medicine. She has pioneered several advancements, including the first characterization of the global cardiac mitochondrial proteome dynamics and elucidation of its role in cardiac phenotypes; the first unveiling of heterogeneous structures and regulation of cardiac proteasomal systems; the first global measurement of protein half-lives of entire organelle proteomes; the creation of novel data science technology platforms for managing and reusing datasets; and the first-of-its-kind construction of a relational database of protein molecular and phenotypic cardiovascular data. Her current work aims to integrate multi-omics data, develop novel data mining and machine learning strategies for text data (e.g., EHRs and PubMed), and promote data annotation and curation in accordance with FAIR principles. She is a strong advocate for open science and data open source policy, and has worked diligently to implement the effective dissemination of data in public domains through open source tools, platforms, and methods. Dr. Ping has published 200+ original articles or reviews in peer-reviewed journals, and has led several large initiatives globally that have supported cross-disciplinary science. These include serving as Director for the BD2K Center of Excellence (COE) for Biomedical Computing at UCLA, Director of the Myocardial Ischemic Injury and Protection Program Project, Chair of the NHLBI Mitochondrial Initiative Working Group, Director of the NHLBI Proteomics Center at UCLA, and past Chair of the HUPO Cardiovascular Initiative.