

**Dr. Chun-Han Chang** is a Research Fellow at the Department of Cardiovascular Aging, National Cerebral and Cardiovascular Center (NCVC), Osaka, Japan. He has extensive experience in aging models (from cell and nematode to mice), with a multidisciplinary background in functional foods and environmental toxicology. His current research centers on elucidating the systemic impact of atrial fibrillation (AF) using novel spontaneous AF mouse models. He investigates senescence-associated mechanisms and develops natural compound-based senolytic therapies—particularly focusing on Seno-H herbs that selectively eliminate senescent cells. Dr. Chang also monitors live imaging of senolysis using genetically engineered mice and multiphoton microscopy, with the aim of visualizing aging reversal in vivo. By integrating omics analyses, disease modeling, and translational strategies, his work advances next-generation therapeutics for cardiovascular aging and metabolic comorbidities.