

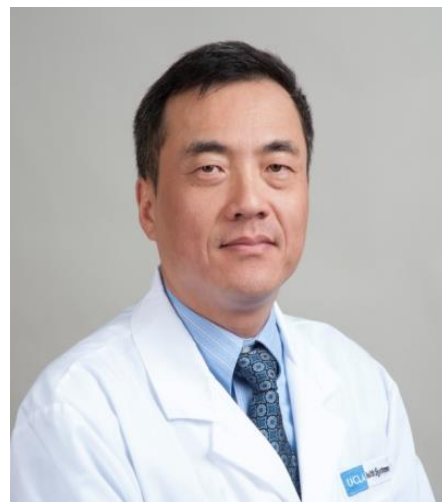


UniversitätsKlinikum Heidelberg

## DZHK Seminar Speaker

### Prof. Dr. Yibin Wang

David Geffen School of Medicine,  
University of California Los Angeles (UCLA)  
Professor of Molecular Medicine  
Chair of Cardiovascular Theme at UCLA  
Vice Chair for Research and Director of the Division of  
Molecular Medicine in the Department of Anesthesiology  
and Perioperative Medicine



**Place:** Auditorium, Medical Clinic (INF 410)

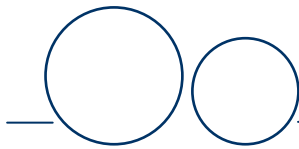
**Date:** Friday, June 9<sup>th</sup>

**Time:** 3.00 pm

## RNAs and Amino Acids: Novel Players and Therapeutic Targets for Heart Failure

**Abstract:** Heart failure is a chronic disease with complex etiologies and heterogeneous pathological processes, affected by both genetic and environmental factors. Our efforts in the past two decades have been focused on dissecting the genetic basis of stress induced cardiac remodeling at functional, cellular and molecular levels. Taking advantage of the recent progress in molecular genetics and systems biology, our lab explored the intricate regulatory gene networks implicated in the pathogenesis of heart failure. We identified several previously unknown pathways contributing to the important aspects of cardiac pathology, including cardiac hypertrophy, metabolic remodeling and transcriptome reprogramming. These insights have led to a new level of understanding to the disease mechanism as well as potential new therapies of heart failure.

**Biography:** Dr. Yibin Wang is currently a Professor of Molecular Medicine in the David Geffen School of Medicine at UCLA. He is the Chair of Cardiovascular Theme at UCLA, the Vice Chair for Research and Director of the Division of Molecular Medicine in the Department of Anesthesiology and Perioperative Medicine. Dr. Wang received his Ph.D. in molecular genetics and cell biology from Baylor College of Medicine and post-doctoral training in neurobiology and molecular cardiology at The Scripps Research Institute and University of California at San Diego. Dr. Wang's research mainly focuses on genetic and molecular mechanisms of heart failure and metabolic disorders. His lab has made major advances in uncovering stress-signaling mechanisms in the pathogenesis of heart failure, and revealed functional importance amino acids catabolism in heart failure and metabolic disorders. In addition, his lab reported novel regulatory mechanisms in cardiac transcriptome reprogramming involving RNA splicing regulation and non-coding RNA mediated epigenetic modulation. He has published over 180 peer-reviewed manuscripts in high quality scientific journals, including *Nature Medicine*, *Journal of Clinical Investigation*, *Circulation*, *Circulation Research*, and *PNAS*. Dr. Wang received an Established Investigator Award from American Heart Association in 2005. He was awarded the title of Chang-Jiang Scholar from Minister of Education of



China in 2009, and Chinese National Expert for “Thousand Talent Plan” in 2011. He was selected as Thomas Smith lecturer at 2016 AHA Scientific Conference by the AHA-BCVS. He currently serves in the editorial board of *Journal of Biological Chemistry*, *Circulation Research*, and *Journal of Molecular and Cellular Cardiology*. Dr. Wang is the principal investigator of several NIH grants. He is a member of the leadership committees for AHA and ISHR North American Section. He has served in more than 30 Ph.D. thesis committees, and is currently the course master and Associate Director of the Molecular, Cellular and Integrated Physiology Ph.D. program at UCLA.

**Host: Prof. Dr. med. Johannes Backs**

DZHK Professor

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