

Dr. Yang Cao is a professor at the University of Science and Technology of China (USTC) and the First Affiliated Hospital. She earned her Ph.D. from USTC in 2015. After completing postdoctoral and assistant researcher positions at Washington University, Yale University, and UCLA, she returned to USTC in 2023 to establish the Cardiovascular Genetics Laboratory. Her research is supported by the National Natural Science Foundation's Excellent Young Scientists Fund, among other grants. Dr. Cao's work focuses on dissecting the genetic mechanisms of heart failure (HF). She utilizes multi-omics data from a cohort of 100 inbred mouse strains (HMDP) and large human datasets (e.g., UK Biobank, GTEx) to investigate tissue-tissue crosstalk, gut microbiota, mitochondrial metabolism, and immune responses in HF. Her work has been published in *Science*, *Circulation*, *Cell Metabolism*, *Circulation Research*, *Nature Communications*, *EMBO Journal*, and other journals.