

PI: Jun Wang, PhD

Assistant Professor

Department of Pediatrics, McGovern Medical School

The University of Texas Health Science Center at Houston

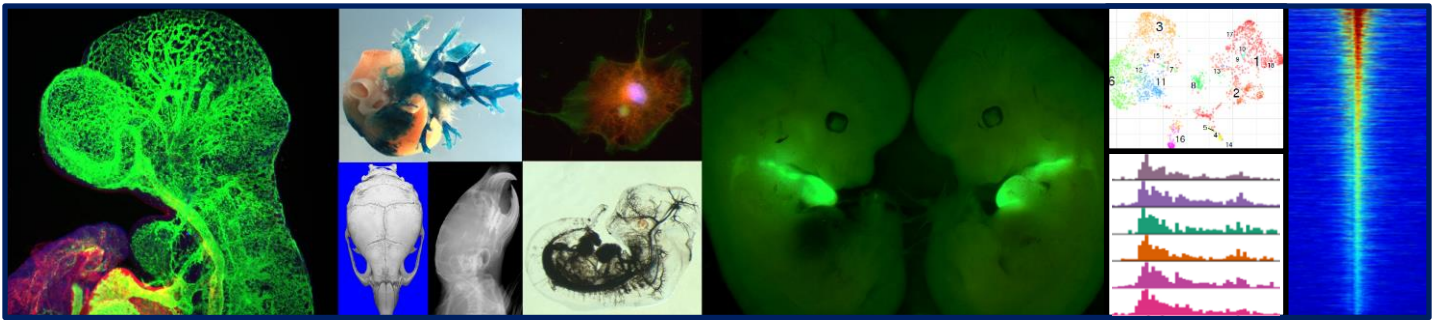
Email: jun.wang@uth.tmc.edu

Website: <https://med.uth.edu/pediatrics/faculty/jun-wang-ph-d/>



“Molecular regulation of heart and head development, diseases and regeneration”

Wang lab research is aimed at understanding signaling pathways such as Hippo, Wnt and Bmp pathways as well as non-coding RNAs in regulating craniofacial and cardiovascular development, diseases and regeneration, using approaches include a combination of genetic mouse models, molecular and biochemical techniques, imaging, cell culture and manipulation, genomics, proteomics, CRISPR-Cas9 genome editing and next generation sequencing techniques.



Research focus in the Wang lab: 1) the migrating multipotent cells named Neural Crest Cells (NCCs). NCCs make significant contribution to many different tissues and organs including the heart and head. 2) Cardiac Conduction System (CCS) homeostasis and regeneration. Dysfunction of CCS leads to cardiac arrhythmia, a major cause of death worldwide. 3) Congenital Heart Diseases (CHDs), the most common birth defects occur in everyone 1 out of 100 newborns.

For more information, please check our website: <https://med.uth.edu/pediatrics/wang-lab/research/>.

Environment. The PI has been devoted to on mentorship to advance students' training and reach their career goals. Wang lab, consist of postdoctoral fellows, graduate students, research associate and research assistant, is a highly collaborative team. Incoming students will take advantage of both in-lab collaborations and active collaborations with other labs including local collaborations at UT Health, MD Anderson Cancer Center, and Baylor College of Medicine, as well as national and international collaborations. We are currently well supported by funds from NIH, DOD and UT.

