Lingzhi Yang

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Education

ChongQing Medical University(CQMU)   **Sep. 2021 – June. 2024**
M.M. in Clinical Medicinee   *Chongqing, China*
GPA: 89.2/100

ChongQing Medical University(CQMU)   **Sep. 2017 – June. 2021**
BMed in Clinical Medicine   *Chongqing, China*
GPA: 89.81/100 (3.94/5)   Ranking: 2/129

Huazhong University of Science and Technology(HUST)   **Sep. 2016 – Sep. 2017**
Joint Training Program in Clinical Medicine   *Wuhan, China*
GPA:91.10/100 (4.20/5)   Ranking: 2/129

Publications

Journal:

[1] **Lingzhi Yang**, Wei Huang, Risk of incident atrial fibrillation with low-to-moderate alcohol consumption is associated with gender, region, alcohol category: a systematic review and meta-analysis. **EP Europace**
It is important to identify modifiable risk factors in AF management. It is observed that males, beer drinkers, Europeans, and Asians in moderate alcohol consumption groups and Europeans in low alcohol consumption groups are at risk of developing AF. This study proposes the warrant for more studies to clarify alcohol's effect on predisposing AF.
[PDF] [DOI] [ProjectPage]

[2] **Lingzhi Yang**, Wei Huang, Hub Genes Identification, Small Molecule Compounds Prediction for Atrial Fibrillation and Diagnostic Model Construction Based on XGBoost Algorithm. **Frontiers in Cardiovascular Medicine**
The pathogenesis of AF is complex and current therapeutic strategies have important limitations. CXCL12 might be a biomarker that could be used for distinguishing subsets of AF. This study indicated that CXCL12 might be an important intermediate in the development of AF by increasing the infiltration of mast cells, neutrophils, and $\gamma\ \delta$ T cells, and reducing infiltration of regulatory T cells.
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In Submission:

[1] **Lingzhi Yang**, Wei Huang, Identification of Cuproptosis-related subphenotypes and implication of PDHB in Pulmonary Arterial Hypertension. **Scientific Reports(Under Review)**
Classifier based on Cuproptosis-related genes may be used for identifying heterogeneity of PAH. The downregulation of PDHB could affect metabolic status, mitochondrial function and immune infiltration in PAH.

[2] **Lingzhi Yang**, Wei Huang, NCAM1 Promotes the Proliferation and Migration of Pulmonary Arterial Smooth Muscle Cells via the ERK1/2 Pathway. **iScience(Under Review)**
NCAM1 may be associated with pulmonary arterial hypertension and promotes the proliferation and migration of PASMCs via the ERK1/2 signaling pathway.

Projects

- **Pregnant Women With Pulmonary Hypertension in China (NCT05198206):**   **January 2021**
  Background: Despite of noteworthy advancements in the treatment of patients with PAH, pregnancy is still regarded as contraindication for the substantial risks to both maternal and fetal health. It is of vital to investigate the current diagnostic and treatment status in China and provide a basis for identifying high-risk pregnant women and optimizing clinical practice.
  Current result: we established a nationwide observational cohort and identified patients at higher risk of adverse outcome. A risk stratification strategy for these group of patients is raised and presents good performance in clinical practice.
  Contribution: I participated in study conception, data collection and provided statistical support in this project.

- **ADAMTSL4 in Idiopathic Pulmonary Hypertension and CTEPH (NCT05478226):**   **January 2021**
  Background: Currently, idiopathic pulmonary artery hypertension (IPAH) and chronic thromboembolic pulmonary hypertension (CTEPH) are lack of specific biomarker for diagnosis and risk stratification. Multi-omics technology makes it possible to screen for potential marker used for clinical practice.
  Result: By using plasma proteomic and tissue transcriptomic data, we identified significantly increased ADAMTSL4 expression and good clinical features correlation.
  Contribution: By searching public database, I chosed GSE15197 dataset for transcriptomic analysis and found the consistent increase of ADAMTSL4 in lung tissues in IPAH patients.

- **Exploration of the Mechanisms of the α-klotho-FGF23 Axis in Neurological Dysfunction Associated with Chronic Kidney Disease (CKD):** January 2019
  Backgroud: Neurological dysfunction can occur as a complication of chronic kidney disease (CKD). Resolving the problem is of importance for long-term management of CKD patients. Restoring the imbalance of alpha-klotho-FGF23 axis in CKD has showed great promise since that it played critical role in mineral metabolism, vascular function, oxidative stress, inflammation and hormonal modulation.
  Contribution: I carried out literature search and conceived experimental plan.
- **"Neuroscience and Cognitive Science Summer Program" jointly organized by Peking University Life Sciences Joint Center and McGovern Institute for Brain Research Center:** January 2018

Intership

Standardized Training for Resident Physicians at the First Affiliated Hospital of Chongqing Medical University. **From 2021 to 2024**

Awards

National Scholarship for Master's Degree Students.	January 2022
Meritorious student at Department Level	January 2022
Outstanding Individual in Scientific and Technological Innovation Chongqing Medical University.	January 2022
Outstanding Graduate of Chongqing Medical University.	January 2020
Second Prize in the "Concept Cup" Experimental Competition.	January 2019
"Excellent Award" at the Chongqing Medical University Undergraduate Basic Medical Science Innovation Forum and Experimental Design Competition.	January 2018
Second Prize at the University Level in the "Foreign Language Teaching and Research Press (FLTPR)" National English Writing Competition	January 2019
Second Prize in Category C of the National English Contest for College Students.	January 2019
"Outstanding Communist Youth League Member" of the Second Affiliated Hospital of Chongqing Medical University. January 2019	
Meritorious Student Scholarship at the Department Level, Chongqing Medical University.	January 2020
Meritorious Student Scholarship at the Department Level, Chongqing Medical University.	January 2019
Merit Student Scholarship at the University Level, Chongqing Medical University.	January 2018
Meritorious Student Scholarship at the Department Level, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology.	January 2017
Self-Improvement Scholarship of the School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology.	January 2017
Excellent Academic Performance Scholarship of the School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology.	January 2017

Skills

License: License of Practicing Physician.
Languages: CET-4(642), CET-6(600).
Experimental skills: RNA extraction and real-time PCR.
Bioinformatic skills: Proficient in multiple RNA-seq and microarray, and scRNA-seq and snRNA-seq methods with relevant analysis experience. Proficient in utilizing multiple bioinformatics databases, including but not limited to NCBI, Ensembl, UniProt, KEGG, STRING, Reactome, JASPAR, and CMAP.
Programming language: Familiar with R, Python, and Linux.

Self evaluation

- I am a good learner, listener and collaborator. I hold the belief that the journey of a thousand miles begins with a single step.
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.