



徐福意

遗传与生物信息学，教授

联系电话：15661444157

电子邮箱：xufuyiphd@gmail.com



个人简介：

徐福意，男，教授。主要从事人类复杂疾病致病基因的定位及分子遗传机制研究工作。曾参与两项国家自然科学基金项目和多项上海市市级项目。目前，主持新冠培育专项一项，参与在研 NIH 课题两项。在 Brain, Behavior, and Immunity, Frontiers in immunology, Journal of Molecular and Cellular Cardiology 等国际权威期刊发表 SCI 论文 30 余篇，其中第一和通讯作者发表论文 18 篇。

学习经历：

2010 年 9 月至 2017 年 7 月，东华大学，遗传学，博士研究生

2006 年 9 月至 2010 年 7 月，内蒙古农业大学，生物科学，本科

工作经历：

2021 年 6 月至今，滨州医学院，遗传与生物信息学，教授

2018 年 1 月至 2021 年 3 月，美国田纳西大学健康科学中心，遗传与生物信息学，博士后

主讲课程：

1、《基因组学与生物信息学：导论与方法》(研究生 选修课)

研究方向：

1. 复杂疾病致病基因的定位及分子遗传机制
2. 系统遗传学与生物信息学

科研项目：

1. 主持校级新冠培育专项—“Ace2 参与新型冠状病毒 (SARS-CoV-2) 感染后急性肾损伤的分子机制研究”(No.BY2021XGFY01,2021.09-2022.09)
2. 参与 NIH/NIDDK 项目 --“Discovery of modifier genes in cardiomyopathy”(No.R01HL151438, 2020.04-2024.04)
3. 参与 NIH/NIDDK 项目--“Genetic and Environmental Determinants of GPRC6A Regulation of Energy Metabolism Using Genetically Engineered Mice and Systems Biology”(No.R01DK120567, 2020.01-2023.03)
4. 参与国家自然科学基金项目--“利用野生小家鼠来源 1 号染色体替换系群体进行血脂代谢的系统遗传学研究”(No.31371257, 2014.01-2017.12)
5. 参与上海市创新行动计划--“小鼠近交系来源 1 号染色体替换系群体遗传特性研究”(No.12140900404, 2012.11-2015.06)
6. 参与国家自然科学基金项目--“中国野生小家鼠群体遗传结构基本框架的研究”(No.31071090, 2011.01-2013.12)

代表性论文及专利:

1. **Xu, Fuyi**, Jun Gao, Silke Bergmann, Amy C. Sims, David G. Ashbrook, Ralph S. Baric, Yan Cui et al. "Genetic dissection of the regulatory mechanisms of Ace2 in the infected mouse lung." *Frontiers in immunology* (2021): 3332. [影响因子: 7.561]
2. **Xu, Fuyi**, Jun Gao, Buyan-Ochir Orgil, Akhilesh Kumar Bajpai, Qingqing Gu, Enkhsaikhan Purevjav, Athena S. Davenport et al. "Ace2 and Tmprss2 Expressions Are Regulated by Dhx32 and Influence the Gastrointestinal Symptoms Caused by SARS-CoV-2." *Journal of Personalized Medicine* 11, no. 11 (2021): 1212. [影响因子: 4.945]
3. **Xu, Fuyi**, Yuanjian Chen, Kaitlin A. Tillman, Yan Cui, Robert W. Williams, Syamal K. Bhattacharya, Lu Lu, and Yao Sun. "Characterizing modifier genes of cardiac fibrosis phenotype in hypertrophic cardiomyopathy." *International Journal of Cardiology* 330 (2021): 135-141. [影响因子: 4.164]
4. Gu, Qingqing, **Fuyi Xu**&, Buyan-Ochir Orgil, Zaza Khuchua, Undral Munkhsaikhan, Jason N. Johnson, Neely R. Alberson et al. "Systems Genetics Analysis Defines Importance Of TMEM43/LUMA For Cardiac And Metabolic Related Pathways." *Physiological Genomics* (2021). [影响因子: 3.107]
5. **Xu, Fuyi**, David G. Ashbrook, Jun Gao, Athena Starlard-Davenport, Wenyan Zhao, Diane B. Miller, James P. O'Callaghan, Robert W. Williams, Byron C. Jones, and Lu Lu. "Genome-wide transcriptome architecture in a mouse model of Gulf War Illness." *Brain, behavior, and immunity* 89 (2020): 209-223. [影响因子: 7.217]

6. **Xu, Fuyi**, Jun Gao, Undral Munkhsaikhan, Ning Li, Qingqing Gu, Joseph F. Pierre, Athena Starlard-Davenport et al. "The genetic dissection of Ace2 expression variation in the heart of murine genetic reference population." *Frontiers in Cardiovascular Medicine* 7 (2020): 186. [影响因子: 6.050]
7. Gao, Jun, John Collyer, Maochun Wang, Fengping Sun, and **Fuyi Xu**. "Genetic dissection of hypertrophic cardiomyopathy with myocardial rna-seq." *International journal of molecular sciences* 21, no. 9 (2020): 3040. [影响因子: 5.924]
8. Gao, Jun, Yuhua Lyu, Defu Zhang, Kiran Kumar Reddi, Fengping Sun, Jianzhong Yi, Chengqian Liu, and **Fuyi Xu**. "Genomic Characteristics and Selection Signatures in Indigenous Chongming White Goat (*Capra hircus*)." *Frontiers in Genetics* 11 (2020): 901. [影响因子: 4.599]
9. Gao, Jun, **Fuyi Xu**[&], Athena Starlard-Davenport, Diane B. Miller, James P. O'Callaghan, Byron C. Jones, and Lu Lu. "Exploring the role of chemokine receptor 6 (Ccr6) in the BXD mouse model of Gulf War illness." *Frontiers in Neuroscience* 14 (2020): 818. [影响因子: 4.677]
10. Chen, Yuanjian, **Fuyi Xu**[&], Undral Munkhsaikhan, Charlie Boyle, Theresa Borecky, Wenyuan Zhao, Enkhsaikhan Purevjav et al. "Identifying modifier genes for hypertrophic cardiomyopathy." *Journal of Molecular and Cellular Cardiology* 144 (2020): 119-126. [影响因子: 5.000]
11. Zheng, Qing Yin, Lihong Kui, **Fuyi Xu**[&], Tihua Zheng, Bo Li, Melinda McCarty, Zehua Sun et al. "An Age-Related Hearing Protection Locus on Chromosome 16 of BXD Strain Mice." *Neural Plasticity* 2020 (2020). [影响因子: 3.599]
12. Omariba, Gideon, **Fuyi Xu**[&], Maochun Wang, Kai Li, Yuxun Zhou, and Junhua Xiao. "Genome-wide analysis of MicroRNA-related single nucleotide polymorphisms (SNPs) in mouse genome." *Scientific reports* 10, no. 1 (2020): 1-9. [影响因子: 4.380]
13. **Xu, Fuyi**, Maochun Wang, Shixian Hu, Yuxun Zhou, John Collyer, Kai Li, Hongyan Xu, and Junhua Xiao. "Candidate Regulators of Dyslipidemia in Chromosome 1 Substitution Lines Using Liver Co-Expression Profiling Analysis." *Frontiers in genetics* 10 (2020): 1258. [影响因子: 4.599]
14. Wang, Maochun, **Fuyi Xu**[&], Ke Chen, Xiaoning Li, Kai Li, Yuxun Zhou, and Junhua Xiao. "A multiplex SNP genotyping by allele-specific PCR based on stem-loop and universal fluorescent primers of Chr1 daxin mice." *Electrophoresis* 40, no. 11 (2019): 1600-1605. [影响因子: 3.535]
15. Hook, Mike, **Fuyi Xu**[&], Elena Terenina, Wenyuan Zhao, Athena Starlard-Davenport, Pierre Mormede, Byron C. Jones, Megan K. Mulligan, and Lu Lu. "Exploring the involvement of

Tac2 in the mouse hippocampal stress response through gene networking." *Gene* 696 (2019): 176-185. 「影响因子: 3.688」

16. **Xu, Fuyi**, Shixian Hu, Tianzhu Chao, Maochun Wang, Kai Li, Yuxun Zhou, Hongyan Xu, and Junhua Xiao. "Sequence analysis of chromosome 1 revealed different selection patterns between Chinese wild mice and laboratory strains." *Molecular Genetics and Genomics* 292, no. 5 (2017): 1111-1121. 「影响因子: 3.291」
17. **Xu, Fuyi**, Tianzhu Chao, Yiyin Zhang, Shixian Hu, Yuxun Zhou, Hongyan Xu, Junhua Xiao, and Kai Li. "Chromosome 1 Sequence Analysis of C57BL/6J-Chr1KM Mouse Strain." *International journal of genomics* 2017 (2017). 「影响因子: 2.326」
18. **Xu, Fuyi**, Tianzhu Chao, Yingming Liang, Kai Li, Shixian Hu, Maochun Wang, Yuxun Zhou, Hongyan Xu, and Junhua Xiao. "Genome sequencing of chromosome 1 substitution lines derived from Chinese wild mice revealed a unique resource for genetic studies of complex traits." *G3: Genes, Genomes, Genetics* 6, no. 11 (2016): 3571-3580. 「影响因子: 3.154」

&并列第一作者

荣誉获奖:

社会兼职:

1. 美国心脏协会会员