Rongxin **Zhang**

Ph.D. candidate · BIOINFORMATICS

Profile

Hometown Nantong City, Jiangsu Province, China

State Key Laboratory of Bioelectronics,

School of Biological Science and Medical Engineering,

Laboratory Southeast University

Birth 1995.10.24 Gender Male

Working Mail rongxinzhang@outlook.com
Personal Website https://rongxinzhang.top

Education

Ph.D. Candidate of Engineering (Supervisor: Prof. Xiao Sun)

2018-now

Department of Bioinformatics and System Biology

State Key Laboratory of Bioelectronics

School of Biological Science and Medical Engineering

Southeast University

Bachelor of Science (Supervisor: Prof. Qianghu Wang)

2014-2018

Department of Bioinformatics

School of Biomedical Engineering and Informatics

School of Basic Medical Sciences
Nanjing Medical University

Skills

Programming; R, Python, PHP et al.

Software and website developing

Working in Linux environment

Proficiency in using common bioinformatics software or databases

Data mining and statistical analysis

Sequencing data analysis; RNA-seq, ChIP-seq, DNase-seq et al.

Have a background in biology and medicine

Research Interests

Human Epigenetics & Disease (Cancer)

Non-canonical Nucleic Acid Secondary Structures, especially G-quadruplexes

Bioinformatics Software & Database Development

Machine Learning Tasks in Bioinformatics or Medical Informatics

Sequencing Data Analysis

Research Experience ____

Designed and built two Bioinformatics databases, iCAN and Mir2Drug.

Participated in a study to assess the risk of development of type 2 diabetes in the Chinese urban population by using machine learning approaches.

Identified Glioblastoma Multiforme samples from scRNA sequencing data.

Analyzed the potential role of G-quadruplexes in the SARS-CoV-2 genome, the human 3D genome, and the human transcriptome.

Awards

Outstanding Graduates of Nanjing Medical University The Contest of LAN QIAO CUP (JAVA Programming Language Competition) China College Students Computer Design Competition (Software Development and A Innovation Cup of Computer Design Competition Triple-A Students of Nanjing Medical University	Third Prize pplication) Second Prize Second Prize	2018 2017 2017 2016 2015
Publications		
基因组 G-四链体与疾病的关系(The association between genomic G-quadruplex and disease) Chinese Review [Accepted]		2020
Hao Li, <i>Rongxin Zhang</i> , Xiao Sun Whole genome identification of potential G-quadruplexes and analysis of the G-	生命的化学(Chemistry of L	
quadruplex binding domain for SARS-CoV-2 (PDF)		2020
<i>Rongxin Zhang</i> , Ke Xiao, Yu Gu, Hongde Liu, Xiao Sun	Frontiers in gen	etics
Enhancer IncRNAs influence chromatin interactions in different ways (PDF)	:	2019
Hou Yue, <i>Rongxin Zhang</i> , Xiao Sun	Frontiers in gen	etics
Integrative characterization of G-Quadruplexes in the three-dimensional		2040
chromatin structure (PDF)		2019
Hou Yue, Fuyu Li, <i>Rongxin Zhang</i> , Sheng Li, Hongde Liu, Zhaohui S. Qin, Xiao Sun Machine Learning Models in Type 2 Diabetes Risk Prediction: Results from a Cross-	Epigen	etics
sectional Retrospective Study in Chinese Adults (PDF)		2019
Xiong Xiaolu, <i>Rongxin Zhang (Co-first author)</i> , Yan Bi, Weihong Zhou, Yun Yu,		
Dalong Zhu	Current medical sci	ience
Institute collection and analysis of Nanobodies (iCAN): a comprehensive database		2017
and analysis platform for nanobodies (<u>PDF</u>)		2017
Zuo Jing, Jian Li, <i>Rongxin Zhang</i> et al. An Integrating Approach for Genome-Wide Screening of MicroRNA Polymorphisms	BMC geno	omics
Madiated Days Despense Alterations (DDE)		2017

2017

International journal of genomics

Mediated Drug Response Alterations (PDF)

Wang Xianyue, Hong Jiang, Wei Wu, *Rongxin Zhang* et al.