

QIQI XIE

Bioinformatics Scientist. Data scientist. Biologist. Master of Medicine.

I received the B.S. degree in Bachelor of Medicine from Nanchang University, City, China, in 2015 and the M.S. degree in Clinical Surgery from Lanzhou University, City, China, in 2019. I am currently undertaking doctoral training at Indiana University Bloomington, specializing in cancer stem cells, and I plan to pursue postdoctoral training in the future.

I am broadly interested in gbm, breast cancer, bone tumor, and neuropathic pain. Fluent in Bioinformatics, NGS analysis, scRNA-seq, and machine learning.



EDUCATION

- | | | |
|-------------------|--|--|
| 2026

2023 | <ul style="list-style-type: none">● Ph.D. in Oncology
Indiana University Bloomington<ul style="list-style-type: none">• Indiana University School of Medicine Bloomington | 📍 Bloomington, IN 47405 |
| 2019

2016 | <ul style="list-style-type: none">● Master of Orthopedics
Lanzhou University<ul style="list-style-type: none">• Mechanism of TRPM2-GSK3B Signaling Pathway in Diabetic Osteoporosis | 📍 Gansu, CN |
| 2015

2010 | <ul style="list-style-type: none">● Diploma of Clinical Medicine
Nanchang University | 📍 Jiangxi, CN |

CERTIFICATE

- | | | |
|------|--|--|
| 2018 | <ul style="list-style-type: none">● Outstanding Graduates | 📍 Lanzhou University |
| 2016 | <ul style="list-style-type: none">● National Scholarships● The First-Prize Scholarship● The Third-Prize Scholarship | 📍 Lanzhou University |
| 2014 | <ul style="list-style-type: none">● The Third-Prize Scholarship | 📍 Nanchang University |
| 2012 | <ul style="list-style-type: none">● The Second-Prize Scholarship | 📍 Nanchang University |

CONTACT

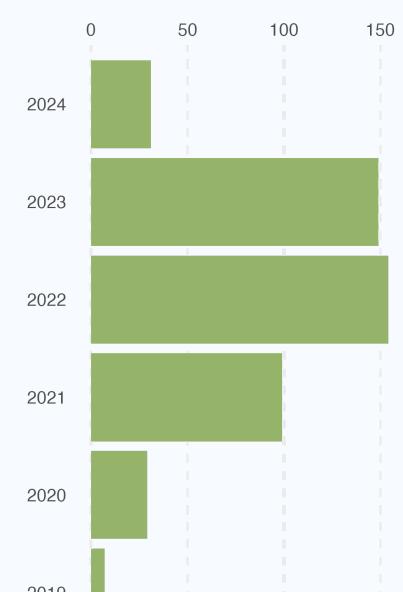
- ✉ QiqiXie@iu.edu
- 🐦 [@QiqiXie](https://twitter.com/Qiqi_Xie)
- 🔗 <https://github.com/Qiqi-Xie>
- 🔗 <https://orcid.org/0000-0003-4099-5287>
- 🔗 [Icy505264](https://www.jianshu.com/u/bcb81276c29d)
- 📞 [\(86\) 15719612948](tel:(86)15719612948)
<https://www.jianshu.com/u/bcb81276c29d>
- 🔗 <https://www.wolai.com/qiqixie>



Citation = 470

H-index = 12

I10-index = 17



2011

- National College English Competition Encouragement Award
📍 Nanchang University

↳ GRANTS

2023
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2022

- Qinghai Provincial Breast Center Key Specialty Construction
Participation

2022
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2021

- Popularization and application of early diagnosis and treatment technology for breast cancer in Qinghai Province
Participation

2021
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2020

- Study on the mechanism of single cell sequencing in bone metastasis of Breast Cancer
Participation

2020
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2019

- Pain mechanism and treatment of spinal diseases
Participation
- The mechanism of exosome microRNAs in osteoporosis
Participation

2019
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2018

- Mechanism of TRPM2-GSK3B ta Signaling Pathway in Diabetic Osteoporosis
Participation

2018
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2017

- Endogenous cannabinoids regulate astrocyte-mediated pain: the MAPK-Glu-Gln shuttle pathway
Participation

☞ PUBLICATIONS

2023

- Correlation between mismatch repair and survival of patients with gastric cancer after 5-FU-based adjuvant chemotherapy
J Gastroenterol
 - Zhao F, Li E, Shen G, Dong Q, Ren D, Wang M, Zhao Y, Liu Z, Ma J, Xie Q, Liu Z, Li Z, Gao L, Zhao J
 - SCI, IF=6.772, JCR Q1

2022

- SKI knockdown suppresses apoptosis and extracellular matrix degradation of nucleus pulposus cells via inhibition of the Wnt/β-catenin pathway and ameliorates disc degeneration
Apoptosis
 - Wu ZL, Chen YJ, Zhang GZ, Xie QQ, Wang KP, Yang X, Liu TC, Wang ZQ, Zhao GH, Zhang HH
 - SCI, IF=5.561, JCR Q2

2021

- **An Immune-Related Long Non-Coding RNA Signature to Predict the Prognosis of Ewing's Sarcoma Based on a Machine Learning Iterative Lasso Regression**

Front Cell Dev Biol

- Enhui Ren, Yajun Deng, Wenhua Yuan, Guangzhi Zhang, Zuolong Wu, *Qiqi Xie**
- SCI, IF=6.681, JCR Q2
- Corresponding_author

- **Development of a Machine Learning-Based Autophagy-Related lncRNA Signature to Improve Prognosis Prediction in Osteosarcoma Patients**

Front Mol Biosci

- Guangzhi Zhang, Zuolong Wu, Chunying Li, Enhui Ren, Wenhua Yuan, Yajun Deng, *Qiqi Xie**
- SCI, IF=5.240, JCR Q3
- Corresponding_author

- **Role of the Wnt pathway in the formation, development, and degeneration of intervertebral discs**

Pathol Res Pract

- Zuo-Long Wu, *Qiqi Xie**, Tai-Cong Liu, Xing Yang, Guang-Zhi Zhang, Hai-Hong Zhang
- SCI, IF=3.250, JCR Q4
- Co-first_authors

- **Screening of osteoarthritis diagnostic markers based on immune-related genes and immune infiltration**

Scientific Reports

- Wenhua Yuan, *Qiqi Xie**, Keping Wang, Wei Sheng, Xiaofei Feng, Zheng Liu, Jintao Shi, Xiaobo Zhang, Kai Zhang, Yajun Deng, Haiyu Zhou
- SCI, IF=4.371, JCR Q3
- Co-first_authors

- **A four-methylated lncRNA signature predicts survival of osteosarcoma patients based on machine learning**

Genomics

- Yajun Deng, Wenhua Yuan, Enhui Ren, Guangzhi Zhang, Zuolong Wu, *Qiqi Xie**
- SCI, IF=5.732, JCR Q3
- Corresponding_author

- **An immune-related gene signature for determining Ewing sarcoma prognosis based on machine learning**

Journal of Cancer Research and Clinical Oncology

- Enhui Ren, Yajun Deng, Wenhua Yuan, Zuolong Wu, Guangzhi Zhang, *Qiqi Xie**
- SCI, IF=4.550, JCR Q3
- Corresponding_author

2020

- **Development of a novel immune-related genes prognostic signature for osteosarcoma**
Scientific Reports
 - Zuolong Wu, Guangzhi Zhang, Yajun Deng, Enhui Ren, Wenhua Yuan,
*Qiqi Xie**
 - SCI, IF=4.371, JCR Q3
 - Corresponding_author
- **Protein Kinase A Is Involved in Neuropathic Pain by Activating the p38MAPK Pathway to Mediate Spinal Cord Cell Apoptosis**
Mediators of Inflammation
 - Yajun Deng, Liang Yang, *Qiqi Xie*, Fengbiao Yang, Guoqiang Li, Guangzhi Zhang, Shaoping Li, Zuolong Wu, Jing Wang, Xuwen Kang*
 - SCI, IF=4.711, JCR Q3
 - Co-first_authors
- **MCM2 and NUSAP1 Are Potential Biomarkers for the Diagnosis and Prognosis of Pancreatic Cancer**
BioMed Research International
 - Yajun Deng, Hanyun Ma, Jinyong Hao*, *Qiqi Xie**, Ruochen Zhao*
 - SCI, IF=3.411, JCR Q3
 - Corresponding_author
- **Decreased expression of NUSAP1 predicts poor overall survival in cervical cancer**
Journal of Cancer
 - *Qiqi Xie*, Wen Ou-yang, Mingwei Zhang, Huimei Wang, Qiuyuan Yue*
 - SCI, IF=4.200, JCR Q3
 - First_authors
- **GRB10 and E2F3 as Diagnostic Markers of Osteoarthritis and Their Correlation with Immune Infiltration**
Diagnostics
 - Yajun Deng, Enhui Ren, Wenhua Yuan , Guangzhi Zhang, Zuolong Wu,
*Qiqi Xie**
 - SCI, IF=3.701, JCR Q3
 - Corresponding_author
- **Identification of a novel autophagy-related gene signature for predicting metastasis and survival in patients with osteosarcoma**
Research Square
 - Guangzhi Zhang, Yajun Deng, Zuolong Wu, Enhui Ren, Wenhua Yuan,
*Qiqi Xie**
 - SCI
 - Corresponding_author

2019

- Identification of diagnostic markers for major depressive disorder by cross-validation of data from whole blood samples

PeerJ

- Huimei Wang, Mingwei Zhang, **Qiqi Xie**, Jin Yu, Yan Qi, Qiu Yuan Yue*
- SCI, IF=2.984, JCR Q3

- Anterior versus posterior decompression for the treatment of thoracolumbar fractures with spinal cord injury:a Meta-analysis

China journal of orthopaedics and traumatology

- Enhui Ren, Yajun Deng, **Qiqi Xie**, Liang Yang, Guangzhi Zhang, Shaoping Li, Zuolong Wu, Jing Wang, Xuewen Kang*
- SCI

- Identification of potential diagnostic and therapeutic target genes for lung squamous cell carcinoma

Oncology Letters

- Nana Zhang, Hong Wang, **Qiqi Xie**, Hua Cao, Fanqi Wu, Dan Bei Di Wu, Yixin Wan*
- SCI, IF=2.860, JCR Q4
- Co-first_authors

- Integrative analyses of genes associated with idiopathic pulmonary fibrosis

Journal of Cellular Biochemistry

- Huimei Wang, **Qiqi Xie**, Wen Ou_Yang, Mingwei Zhang*
- SCI, IF=4.423, JCR Q3

- Slow skeletal muscle troponin T, titin and myosin light chain 3 are candidate prognostic biomarkers for Ewing's sarcoma

Oncology Letters

- Yajun Deng, **Qiqi Xie**, Guangzhi Zhang, Shaoping Li, Zuolong Wu, Zhanjun Ma, Xuegang He, Yicheng Gao, Yonggang Wang, Xuewen Kang, Jing Wang*
- SCI, IF=2.860, JCR Q4
- Co-first_authors

- 2-arachidonyl glycerol modulates astrocytic glutamine synthetase via p38 and ERK1/2 pathways

Journal of Neuroinflammation

- Shenghong Wang, Hua Zhang, Bin Geng, **Qiqi Xie**, Wenzhou Li, Yajun Deng, Weidong Shi, Yunyan Pan, Xuewen Kang, Jing Wang*
- SCI, IF=8.324, JCR Q2

2018

- **High-affinity glutamate transporters and chronic pain**
Journal of Central South University (Medical Sciences)
 - Zhang H, Wang S, *Qiqi Xie*, Li W, Shi W, Ma J, Wang J*
 - CSCD
 - Article in chinese
- **Bioinformatics analysis of gene chip data related to early pathological pain induced by SNI rat model**
Life Science Research
 - Xie Q, Li W, Shi W, Deng Y, Ren E, Ma J, Kang X, Wang J*
 - CSCD, First_authors
 - Article in chinese
- **Advances in application of gemstone energy spectrum CT in skeletal system**
Life science Research
 - Xie Q, Li W, Shi W, Deng Y, Ren E, Ma J, Kang X, Wang J*
 - CSCD, First_authors
 - Article in chinese
- **Bioinformatics analysis of osteoarthritis expression profile microarray integration**
Hua Zhong Ke Ji Da Xue Xue Bao Yi Xue Ban
 - Xie Q, Li W, Shi W, Deng Y, Ren E, Ma J, Kang X, Wang J*
 - CSCD, First_authors
 - Article in chinese
- **Effects of diabetes on bone biomechanics in ovariectomized rats**
Chinese Journal of Medical Physics
 - Xie Q, Li W, Shi W, Deng Y, Ren E, Ma J, Pan Y, Kang X, Wang J*
 - CSCD, First_authors
 - Article in chinese
- **Selection of sites for detecting bone mineral density in diabetic osteoporosis rats by DXA**
Chinese Journal of Medical Physics
 - Li W, Xie Q, Ren E, Deng Y, Pan Y, Ma J, Kang X, Wang J*
 - CSCD, Co-first_authors
 - Article in chinese
- **Visual analysis of related literature on quantitative computed tomography in diagnosis of osteoporosis**
Chinese Journal of Medical Physics
 - Deng Y, Xie Q, Li W, Shi W, Ma J, Pan Y, Kang X, Wang J*
 - CSCD, Co-first_authors
 - Article in chinese

- The expression and clinical significance of formyl peptide receptor 1 in glioma were analyzed based on bioinformatics
Cancer, aberration, mutation
 - Dong Q, Xie Q, Hu J, Wang M, Yuan G, Pan Y*
 - CSCD, Co-first_authors
 - Article in chinese
- The correlation between quantitative parameters of EDCT and bone biomechanics
Chinese Journal of Medical Physics
 - Dong Q, Xie Q, Zhao R, Huang X, Li W, Zhang Y, Pan Y*
 - CSCD, Co-first_authors
 - Article in chinese
- Preliminary study on the evaluation of biomechanics by EDCT
Chinese Journal of Medical Physics
 - Huang X, Xie Q, Deng Y, Zhao R, Dong Q, Zhou J*
 - CSCD, Co-first_authors
 - Article in chinese
- Progress in the study of skeletal endocrine function
Life science Research
 - Li W, Xie Q, Shi W, Deng Y, Ma Y, Xie J, Kang X, Wang J*
 - CSCD, Co-first_authors
 - Article in chinese

CONFERENCE PROCEEDINGS

2020
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2018

- The 3th Academic Conference of Chinese Medical Association on Osteoporosis and Bone Mineral Salt
 - Shanxi, CN
- The 9th International Symposium on Osteoporosis and Bone Mineral Salt Diseases
 - Suzhou, CN
- The 13th Annual Congress of Chinese Orthopaedic Association
 - Xiamen, CN

PROFESSIONAL SKILLS

Wet-lab Experimental

- I am good at Immunohistochemistry, Immunofluorescence, Western Blot, RT-PCR, RNAi, Exosome identification, Open-field Test, Water Maze Test, Forced Swimming Test, Von Frey Hair Test, Cold Hot Plate Test, and Tereotactic Injection.

Experimental instruments

- I can operate the following experimental instruments: micro-drop PCR system, automatic protein expression quantitative system, high-content live cell imaging quantitative analysis system and cell metabolic analyzers.

Software

- I have advanced experience in using Microsoft Office, Illustrator, Photoshop, GraphPad Prism, SPSS, ImageJ, Image-Pro Plus, Cytoscape, Funrich.

Statistics

- I have moderate experience in using R and Python for statistical modeling and data visualization.

Machine learning

- I know how to do machine learning (including deep learning) and have applied some technologies to my projects.

Data analysis

- I have advanced experience in using R and Shell for data preprocessing, data cleaning and data interpretation. RNA-seq, ChIP-seq, ATAC-seq, scRNA-seq, scATAC-seq Analysis. Spatial Transcriptomics.