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Institute of Cancer Stem Cell
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Research interests

1. Exploration of related molecular mechanisms, expression regulation, signal transduction and clinical significance of key tumor genes in tumorigenesis and development.
2. The mechanism of drug resistance and self-renewal of cancer stem cells in tumorigenesis and development.
3. Application of high-throughput sequencing and omics techniques to explore the occurrence and development of tumors

Education

- 2016-2019 Master of Science in Cell Biology;
Institute of Cancer Stem Cell; Dalian Medical University
Advisor: Wei Guo; Wuguo Deng
- 2012-2016 Bachelor of Science in Biological Sciences;
College of Life Sciences; Henan University

Research experience

- 2016- The discovery and identification of synergizing regulatory factors of hTERT in colon cancer development (in research, supported by NSFC: 81572706)
BPTF modulates hTERT signaling and cancer stem cell traits in hepatocellular carcinoma development(partial participation)
Advisor: Wei Guo; Wuguo Deng;
Institute of Cancer Stem Cell; Dalian Medical University
- 2015-2016 Research on application of CRISPR/Cas9 Technology in Cotton Genome Function
Advisor: Wei Gao;
State Key Laboratory of Cotton Biology; Henan University
- 2013-2016 Verification and Analysis of Genetic Improvement of Stress Resistance in Transgenic Cotton
Advisor: Shouming Xu;
State Key Laboratory of Cotton Biology; Henan University

Skills

Cell Biology: Immunohistochemistry, Immunofluorescence, Co-Immunoprecipitation, Pull Down, ChIP, Luciferase Assays, Flow Cytometry, Lentiviral Transduction, DNA/RNA Transfection, Gene Silencing, Mouse model

Cancer Research: Cell Signaling, Apoptosis, Cell Proliferation, Cell Imaging, Cell stemness, migration, invasion

Molecular Biology: PCR, Plasmid construction

R, CET6: 468.

Publications

1. Zhao, X., Zheng, F., Li, Y., Hao, J., Tang, Z., Tian, C., Yang, Q., Zhu, T., **Diao, C.**, and Zhang, C.J.R.B. (2018). [BPTF promotes hepatocellular carcinoma growth by modulating hTERT signaling and cancer stem cell traits.](#)