Shang Su

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Education

Tsinghua University, Beijing **Sep 2011-Oct 2019**

- Ph. D. in biology

Tsinghua University, Beijing **Sep 2007-Jul 2011**

- B. Sc. in biology

Research Experiences

University of Toledo Medical Center **Jul 2020- present**
Van Andel Institute **May 2019- Jun 2020**
Supervisor: Dr. Xiaohong Li *Prostate cancer bone metastasis, drug resistance and Tumor dormancy*

- Deciphering how bone microenvironment (mainly on osteoblast) is involved in metastasis and enzalutamide resistance of prostate cancer.
- Developing novel system to detect and monitoring tumor cell dormancy and re-proliferation.

Tsinghua University **Sep 2010- Jul 2018**
Supervisor: Dr. Wei Wu & Dr. Yu Rao *Targeted degradation of cancer therapeutic targets*

- Developed small-molecule degrader of therapeutic proteins by PROTAC to overcome drug resistance.
- Integrated biochemical/cellular/fluorescence microscopic techniques to characterize the potent PROTACs.

Supervisor: Dr. Wei Wu *Cell cycle regulation in cancer cells*

- Discovered S/G2-phase enrichment of β-catenin/TCF transcriptional complex in colorectal cancer cells.
- Deciphered the upstream and downstream events of β-catenin/TCF enrichment to learn more on cell cycle.

Publications

4 peer-reviewed research articles, 1 invited review and 1 preprint. H-index=4. Total citations >60 since 2014.

1. **Su S**[#], Cao J[#], Meng X[#], et al.. Enzalutamide-induced PTH1R-mediated TGFBR2 decrease in osteoblasts contributes to resistance in prostate cancer bone metastases. **BioRxiv**, 2020. DOI: 10.1101/829044. In Revision (#, co-first author)
2. **Su S**[#], Yang Z[#], Gao H, et al.. Potent and Preferential Degradation of CDK6 via Proteolysis Targeting Chimera. **Journal of Medicinal Chemistry**, 2019, 62 (16), 7575-7582. (#, co-first author)
3. An Z, Lv W, **Su S**, et. al.. Developing potent PROTACs tools for selective degradation of HDAC6 protein. ***Protein & Cell***, 2019, 10(8): 606-609.
4. Zhao Q, Lan T, **Su S**, Rao Y. Induction of Apoptosis in MDA-MB-231 Breast Cancer Cells by a PARP1-Targeting PROTAC Small Molecule. ***Chemical Communications***, 2019, 55 (3), 369-372.
5. Ding Y[#], **Su S**[#], Tang W, et. al.. Enrichment of the β-catenin–TCF complex at the S and G2 phases ensures cell survival and cell cycle progression. ***Journal of Cell Science***, 2014, 127: 4833-4845. (#, co-first author)
6. **Su S**, Wu W. Regulation of target gene transcription by Wnt/β-catenin signaling. ***SCIENTIA SINICA Vitae***, 2014, 44: 1029–1042. (Invited review in Chinese)

Invited talks and presentations

2019 Sep Enzalutamide down-regulation of TGFBR2 in osteoblasts contributes to resistance in prostate cancer bone metastasis. Oral Presentation at Cold Spring Harbor Meeting “Biology of Cancer: microenvironment & metastasis”.

Teaching Experiences

2019 Winter, Group Leader for High School Journal Club in Van Andel Education Institute.
2019 Winter & 2020 Spring, Instructor for Internal Seminar Course in Graduate School of Van Andel Institute.

Awards and Honors

- Excellent PhD student list in School of Life Sciences, Tsinghua University 2016
- Tsinghua Scholarship for Graduate Student, “WU Zhengyi 3-generation”Memorial Award 2014
- Level I Excellent Graduates of Tsinghua University (TOP 2% among 3000 graduates) 2011