ZHANG Lan

Associate Professor
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BIO

Education

- **PhD**, Shenyang Pharmaceutical University, Natural Medicinal Chemistry (2015)
- **B.S**., Yantai University, Pharmacy (2010)

Employment

Academic Appointments

- Associate Professor, School of Life Science and Engineering, Southwest Jiaotong University, China (2018-present)
- Postdoctoral Fellow, State Key Laboratory of Biotherapy, Sichuan University, China (2015-2018)

RESEARCH INTERESTS

- Medicinal Chemistry, Chemical Biology, Pharmacology

SELECTED PUBLICATIONS

Principal Publications of the Last Five Years

- Discovery of a novel small-molecule inhibitor of Fam20C that induces apoptosis and inhibits migration in triple negative breast cancer, **European Journal of Medicinal Chemistry**, 2021, 210:113088.
- Flubendazole elicits anti-cancer effects via targeting EVA1A-modulated autophagy and apoptosis in Triple-negative Breast Cancer, **Theranostics**, 2020, 10(18): 8080-8097.
- Discovery of a Novel Dual-Target Inhibitor of ERK1 and ERK5 That Induces Regulated Cell Death to Overcome Compensatory Mechanism in Specific Tumor Types, **Journal of Medicinal Chemistry**, 2020, 63: 3976-3995.
- Targeting autophagy-related protein kinases for potential therapeutic purpose, **Acta Pharmaceutica Sinica B**, 2020, 10(4):569-581.
- Discovery of 5-bromo-4-phenoxy-N-phenylpyrimidin-2-amine derivatives as novel ULK1 inhibitors that block autophagy and induce apoptosis in non-small cell lung cancer, **European Journal of Medicinal Chemistry**, 2020, 208: 112782.
- Design, synthesis and biological evaluation of benzamide derivatives as novel NTCP inhibitors that induce apoptosis in HepG2 cells, **Bioorganic & Medicinal Chemistry Letters**, 2019, 29(19): 126623.

- Small-Molecule Activator of UNC-51-Like Kinase 1 (ULK1) That Induces Cytoprotective Autophagy for Parkinson's Disease Treatment, **Journal of Medicinal Chemistry**, 2018, 61(7):2776-2792.
- UNC-51-like Kinase 1: From an Autophagic Initiator to Multifunctional Drug Target, **Journal of Medicinal Chemistry**, 2018, 61(15):6491-6500.
- Discovery of a Small-Molecule Bromodomain-Containing Protein 4 (BRD4) Inhibitor That Induces AMP-Activated Protein Kinase-Modulated Autophagy-Associated Cell Death in Breast Cancer, **Journal of Medicinal Chemistry**, 2017, 60(24):9990-10012.
- Discovery of a small molecule targeting ULK1-modulated cell death of triple negative breast cancer in vitro and in vivo, **Chemical Science**, 2017, 8: 2687-2701.

Selected Awards and Honors

Professional Activities

RESEARCH

TEACHING

Primary Teaching areas

- Medicinal Chemistry
- Pharmacology

Current Courses

- Medicinal Chemistry
- Medicinal Chemistry Experiment

GRADUATE SUPERVISION

In the News