

WEIZHE DING

Academic Homepage: weizheding.netlify.app/

E: weizhedingphd@gmail.com

T: (+86) 18841128665

A: School of Life Sciences, Tsinghua University, Beijing, China



EDUCATION

Ph.D. Student in Biology (PTN program), Tsinghua University

Sep 2022 - Jul 2027 (expected)

B.S., Biotechnology, Liaoning University

Sep 2018 - Jul 2022

Overall GPA 3.32 / 4.00

AWARDS

2021 College Student's Internet+ Innovation Competition, Leader

Liaoning University, Top 5%

2020 University Single Scholarship

Liaoning University, Top 30%

GRANTS

2021 CAS PSIP (AI In Peptide Design)

Director, No.20214000908, 2021.08-2022.08

Funded by National Center for Nanoscience and Technology, CAS (\$1000)

2020 Provincial College Student's Innovation Program (Toxicity Prediction)

Director, No.S202110140014, 2020.10-2021.10

Funded by Liaoning Province (\$300)

2020 CAS PSIP (DASH&Meta-Analysis)

Director, No.E0X4X11311, 2020.08-2021.08

Funded by Shanghai Institute of Nutrition and Health, CAS (\$6000)

PATENTS

Chinese Patent No.CN202210202646.2

Combining multi-dimensional molecular fingerprints to predict the hERG cardiotoxicity

Chinese Patent No.CN202011124416.6

Application of eriocitrin in the preparation of drugs to inhibit cardiovascular diseases

Chinese Patent No.CN202011226676.4

Application of Polysaccharid lentinus edodes in the preparation of drugs to inhibit amylase

SKILLS

English Proficiency

CET-6: 571

ILETS: 6

Scientific Computing

GROMACS; LINUX; PYTHON; R

RESEARCH

Machine Learning Applied to Kinase

Supervisor: Guohui Li Dec 2020 - Mar 2021

Dalian Institute of Chemical Physics, CAS

Method Investigated the application of machine learning in kinases for the past ten years

Result Classified into seven directions

Natural Products Inhibit Amylase

Supervisor: Xiangyu Cao Sep 2020 - Current

Liaoning University

Method Combined in silico methods and spectroscopy for identifying novel amylase inhibitors

Result Identified a novel amylase inhibitor from *Dalbergia odorifera*

Molecular Dynamic Fingerprints

Supervisor: Hongsheng Liu Sep 2020 - Current

Liaoning University

Method Developed a higher performance model together with multi-dimensional molecular fingerprints to predict hERG cardiotoxicity

Result Improved the accuracy of hERG cardiotoxicity prediction

Nutrition Epidemiology

Supervisor: Ju-Sheng Zheng Jul 2020 - Jun 2020

Westlake University

Method Analyzed the data of LC-MS in the study of CMPF metabolic mechanism

Result Discovering CMPF as biomarker for T2DM

PUBLICATIONS

1. **Weizhe Ding** et al. Computers in Biology and Medicine (SCI, IF=6.72, Q1).

DOI: 10.1016/j.compbiomed.2022.105390

2. Jingjing Zhang*, **Weizhe Ding*** et al. SPECTROCHIM ACTA A (SCI, IF=4.13, Q1). (*co-first author)

DOI: 10.1016/j.saa.2022.121448

3. **Weizhe Ding** et al. Journal of Mudanjiang Medical College

DOI: 10.13799/j.cnki.mdjyxyxb.2021.04.017

4. Dan Liu, Meng Zeng, Jingwen Pi, Meijia Liu, **Weizhe Ding** et al. Chem. Biodiversity (SCI, IF=2.41, Q2)

DOI: 10.1002/cbdv.202001069