

# Resume of Meng Gao

## **Basic Information**



School:	School of Life and Health Sciences
Gender:	Female
Date of Birth:	198212
Title:	Lecturer
Education:	Ph.D of Biomedical Engineering
Tutor:	Master degree
E-mail	gaomeng@hbut.edu.cn
Interest of research:	Protein engineering

## **Academic Background**

From September 1999 to July 2003, Jilin University, Bachelor's degree in Physics;  
From September 2003 to July 2010, Beijing University, Ph.D of Biomedical Engineering.

## **Enrollment Information**

1. Enrollment Discipline: Master of Biochemistry
2. Research direction: Protein engineering
3. Enrollment Year: 2023-2024

## **Representative Projects**

1. The National Natural Science Foundation of China Youth Project "Studying the coupled folding-binding mechanism of intrinsically disordered proteins via molecular dynamics simulations", China, Project leader.

## **Representative Articles**

1. Molecular dynamics simulations revealed topological frustration in the binding-wrapping process of eIF4G with eIF4E, *Physical Chemistry Chemical Physics*, 2024, 26(3): Page 2073-2081.
2. (-)-Epigallocatechin-3-gallate, a Polyphenol from Green Tea, Regulates the Liquid-Liquid Phase Separation of Alzheimer's Related Protein Tau, *Journal of Agricultural and Food Chemistry*, 2023, 71(4): Page 1982-1993.
3. In vitro characterization and molecular dynamics simulation reveal mechanism of 14-3-3  $\zeta$  regulated phase separation of the tau protein, *International Journal of Biological Macromolecules*, 2022, 208: Page 1072-1081.
4. Topological frustration leading to backtracking in a coupled folding-binding process, *Phys. Chem. Chem. Phys.*, 2022, 24, Page 2630.
5. Introducing intrinsic disorder reduces electrostatic steering in protein-protein interactions, *Biophysical Journal* 2021, 120, Page 2998-3007.