Resume of Kai-Zhi Jia

Basic Information

School :	School of Life and Health Science
Gender：	Male
Date of Birth：	197605
Title：	Professor
Education：	Ph.D of Microbiology
Tutor：	Master degree
E-mail:	kaizhijia1@163.com
Interest of research:	Enzymatic engineering, Synthetic biology

Academic Background

From September 1996 to July 2000, Hebei Agricultural University, Bachelor's degree in Olericulture;
From September 2000 to July 2003, Hebei Agricultural University, Master's degree of Olericulture;
From September 2003 to November 2006, Nanjing Agricultural University, Ph.D of Microbiology.

Postdoctor

2008/01-2012/06, Postdoctor, Institute of Microbiology, Chinese Academy of Sciences

Enrollment Information

1. Enrollment Discipline:Master of Bioengineering
2. Research direction: Enzymatic engineering, Synthetic biology
3. Enrollment Year: 2024-2025

Representative Projects

1.National Natural Science Foundation of China (Grant Nos. 31570054) " Regulation mechanism controlling transcriptional expression of VOSCs synthase genes during submerged fermentation of Tuber melanosporum", China, Project leader.
2. National Natural Science Foundation of China (Grant Nos. 31000024) " Molecular mechanism for butanol toxicity towards *Clostridium acetobutylicum* ", China, Project leader.
3. Open Fund Project of State Key Laboratory (Grant Nos. M2021-09) " Molecular mechanism for specific recognition of non-natural substrate DMEP by glycosyltransferase". China, Project leader.

Representative Articles

1. Depletion of L-methionine in foods with an engineered thermophilic methionine

γ-lyase efficiently inhibits tumor growth. Journal of Agricultural and Food Chemistry 2023, 71, 17141-17152.
2. Engineering the entrance of a flavonoid glycosyltransferase promotes the glycosylation of etoposide aglycone. ACS Synthetic Biology 2022, 11:1874-1880.
3. YALI0C22088g from *Yarrowia lipolytica* catalyzes the conversion of L-Methionine into volatile organic sulfur-containing compounds. Microbial Biotechnology 2021, 14:1462-1471.
4. A novel podophyllotoxin derivative with higher anti-tumor activity produced via 4′-demethylepipodophyllotoxin biotransformation by Penicillium purpurogenum. Process Biochemistry 2020, 96: 220-227.
5. Enzymatic O-glycosylation of etoposide aglycone by exploration of the substrate promiscuity for glycosyltransferases. ACS Synthetic Biology 2019, 8: 2718-2725.