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教 科目

Teaching activity: Immunology and Microbiology; Modern Biotechnology

研究方向

Research interest: Antibody fusion protein and recombinant cytokine for immunotherapy; Immune checkpoint inhibitor; Antibody-drug conjugate; Biotransformation and Microbial Fermentation.

Research project:

1. , , 20S11901600,

PD-L1 Wnt - ,

2020-10 2023-09 A novel Immune-stimulating Antibody Conjugates (ISAC) targeting PD-L1 and Wnt signaling for the treatment of glioma. Scientific and Innovative Action Plan of Shanghai, No. 20S11901600 (2020-2023).

2. , , 18431902800,
SIRP α -Fc , 2018-04 2021-06/
Preclinical study of a novel immune checkpoint inhibitor SIRP α Fc fusion protein. Scientific and Innovative Action Plan of Shanghai, No. 18431902800 (2018-2021).

3. 81572979
IL2/sorafenib 2016-01 2019-12/
Construction of site-specific IL-2/Sorafenib conjugates using unnatural amino acids and the antitumor activity and mechanism. National Natural Science Foundation of China, No. 81572979(2016-2019).

4. “ ” 2021.10-2024.07
/Shanghai high-level local university innovation team “Cancer metastasis and original biologics”(2021-2024).

/Education

2010 /PhD, School of Pharmacy, Fudan University,
Shanghai, China

2000 /Master, School of Pharmacy, Fudan University,
Shanghai, China

1992 /Bachelor, School of Pharmacy, Shanghai
Medical University, Shanghai, China.

工作 /Work experience

2022- / Professor, Macau University of Science
and Technology

2011-2022 /Associate professor, Fudan University,
Shanghai, China

1997-2011 / Lecturer, Fudan University, Shanghai, China

1992-1997

/ Assistant, Shanghai Medical University,

Shanghai, China

代表性文章/Publications

1. Wang S, Fu Y, Kuerban K, Liu J, Huang X, Pan D, Chen H, Zhu YZ, Ye L*. Discoidin domain receptor 1 (DDR1) is a potential target correlated with tumor invasion and immune infiltration in gastric cancer. *Frontiers in Immunology*. 2022; 13:933165.
2. Liu J, Meng Z, Xu T, Kuerban K, Wang S, Zhang X, Fan J, Ju D, Tian W, Huang X, Huang X, Pan D, Chen H, Zhao W and Ye L*. A SIRPaFc Fusion Protein Conjugated with the Collagen-Binding Domain for Targeted Immunotherapy of Non-Small Cell Lung Cancer. *Frontiers in Immunology*. 2022;13:845217.
3. , , , , , * . Wnt/ β -catenin pathway inhibition promotes the sensitivity of gastric cancer cells to PD-1 antibody. *Journal of Cellular Biochemistry*. 2022;42:47-54.
4. Li J, Zhang H, Bei S, Zhang X, Li H, Ye L*, Feng L* Disruption of Wnt/ β -catenin pathway elevates the sensitivity of gastric cancer cells to PD-1 antibody. *Cellular and Molecular Immunology*. 2022, 15, 557-569.
5. Zhang H, Bi Y, Wei Y, Liu J, Kuerban K, Ye L*. Blocking Wnt/ β -catenin Signal Amplifies Anti-PD-1 Therapeutic Efficacy by Inhibiting Tumor Growth, Migration, and Promoting Immune Infiltration in Glioblastomas. *Molecular Cancer*. 2021;20(7):1305-1315.
6. Kuerban K, Gao X, Zhang H, Liu J, Dong M, Wu L, Ye R, Feng M, Ye L*. Doxorubicin-loaded bacterial outer-membrane vesicles exert enhanced anti-tumor efficacy in non-small-cell lung cancer. *Advanced Science*. 2020;10(8): 1534-1548.
7. Wang K, Kuerban K, Wan Q, Yu Z, Ye L*, Chen Y*. Introduction of Mercaptoethyl at Sorafenib Pyridine-2-Amide Motif as a Potentially Effective Chain to Further get Sorafenib-PEG-DGL. *Molecules*. 2020;25: 573.

8. Dong M, Ye T, B

16. Song G, Yang D, Wang Y, Chris de Graaf, Zhou Q, Jiang S, Liu K, Cai X, Dai A, Lin G, Liu D, Wu F, Wu Y, Zhao S, Ye L, Han GW, Lau J, Wu B, Hanson MA, Liu Z, Wang M & Stevens RC. Human GLP-1 receptor transmembrane domain structure in complex with allosteric modulators. *Nature*. 2017;546: 312-315. doi:10.1038/nature22378.
17. Song P, Wang Z, Zhang X, Fan J, Li Y, Chen Q, Wang S, Liu P, Luan J, Ye L*, Ju D*. The role of autophagy in asparaginase-induced immune suppression of macrophages. *Cell Death & Disease*. 2017;8: e2721.
18. Jiang S, Wang Q, Feng M, Li J, Guan Z, An D, Dong M, Peng Y, Kuerban K, Ye L*. C2-ceramide enhances sorafenib-induced apoptosis via Caspase-dependent and PI3K/AKT/mTOR signaling pathways in HCC cells. *Asian Pacific Journal of Cancer Biology*. 2017;101:1535-1546.
19. Hu X, Shi S, Wang H, Yu X, Wang Q, Jiang S, Ju D, Ye L*, Feng M*. Blocking autophagy improves the anti-tumor activity of afatinib in lung adenocarcinoma with activating EGFR mutations in vitro and in vivo. *Scientific Reports*. 2017;7:4559.
20. Chen Q#, Ye L#, Fan J, Zhang X, Song P, Wang Z, Wang S, Li Y, Luan J, Wang Y, Chen W, Zai W, Yang P, Cao Z, Ju D. Autophagy suppression potentiates the anti-glioblastoma effect of asparaginase in vitro and in vivo. *Oncotarget*. 2017;8(53):91052-91066.
21. Li J, Wang W, Han L, Feng M, Lu H, Yang L, Hu X, Shi S, Jiang S, Wang Q, Ye L*. Human apolipoprotein A-I exerts a prophylactic effect on high fat diet-induced atherosclerosis in a rabbit model via inflammation inhibition. *Acta Biochimica et Biophysica Sinica*. 2017, 49(2), 149-158.
22. Jiang S, Fan J, Wang Q, Ju D, Feng M, Li J, Guan Z, An D, Wang X, Ye L*. Diosgenin induces ROS-dependent autophagy and cytotoxicity via mTOR signaling pathway in chronic myeloid leukemia cells. *Pharmacology*. 2016, 23: 243-252.
23. Ye L, Fan J, Shi X, Tao Q, Ye D, Xian Z, Zeng X, Li Y, Feng M, Ju D.

Tumor necrosis therapy antibody interleukin-2 fusion protein elicits prolonged and targeted antitumor effects in vivo. *Antibiotics*. 2014, 98: 4053-4061.

24. Song P#, Ye L#, Fan J, Li Y, Zeng X, Wang Z, Wang S, Zhang G, Ping Yang, Cao Z, Ju D. Asparaginase induced apoptosis and cytoprotective autophagy in chronic myeloid leukemia cells. *Oncology*. 2015, 6(6): 3861-3873.

25. Feng M, Liao Z, Han L, Li J, Ye L*. Enhancement of microbial hydroxylation of 13-ethylgon-4-ene-3,17-dione by *Metarhizium anisopliae* using nanoliposome technique. *J. Ind. Microbiol. Biotechnol.* 2014, 41(4): 619-627.

26. Ye L#, Zhang C#, Li J, Shi X, Feng M. Effects of external calcium on the biotransformation of ginsenoside Rb1 to ginsenoside Rd by *Paecilomyces bainier 229-7*. *World J. Microbiol. Biotechnol.* 2012, 28(3): 857-863.

27. Ye L, Liu X, Zhou W, Feng M, Shi X, Li J, Chen D, Zhou P. Microbial transformation of astragalosides to astragaloside IV by *Absidia corymbifera* AS2. *Process Biochem* 2011 46 9 1724-1730.

28. Ye L, Zhou C, Zhou W, Zhou P, Chen D, Liu X, Shi X, Feng M. Biotransformation of ginsenoside Rb1 to ginsenoside Rd by highly substrate-tolerant *Paecilomyces bainier 229-7*. *Bioresour. Technol.* 2010 101 20 7872-787.

Licensed Patents

The application of *Metarhizium anisopliae* mutant in steroid hydroxylation. ZL 2011 1 0199550.7.

Microbial transformation of astragalosides to astragaloside IV by *Absidia corymbifera* AS2. ZL 2010 1 0615265.4

Biotransformation of ginsenoside Rb1 to ginsenoside Rd. ZL 2011 1 0207782.2

Optimization methods for biotransformation of desogestrel using nano-liposome technique. ZL 2013 1 048 4977.0

/Textbook

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