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EDUCATION

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| 1989-1993 | Ph.D., Queen's University, Belfast, with Professor Tony McKervey |
| 1983-1986 | M.Sc., East China University of Science & Technology |
| 1979-1983 | B.Sc., East China University of Science & Technology |

PROFESSIONAL EXPERIENCE

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| 2015- | Professor & Senior PI, Peking University Shenzhen Graduate School |
| 2002-2015 | Deputy Director of Institute of Materia Medica, Associate Professor, Hong Kong Polytechnic University |
| 1994-1998 | ROPA Fellow, Nottingham University, with Professor Gerry Pattenden |
| 1993-1994 | Postdoctoral Fellow, Queen's University, Belfast, with Professor Tony McKervey |
| 1986-1989 | Lecturer, East China University of Science & Technology |

HONORS AND AWARDS

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| 2015 | Fellow of the Royal Society of Chemistry, 2015 |
| 2014 | Xiaoyu Hu Memorial Award |
| 2012 | WuXi PharmaTech Life Science and Chemistry Award |
| 2012 | Asian Core Program Lectureship Award 2012 (To deliver lectures in Japan) |
| 2012 | Asian Core Program Lectureship Award 2012 (To deliver lectures in Beijing) |
| 1994-1998: | ROPA Fellowship (Engineering and Physical Sciences Research Council, U.K.) |
| 1991 | Prize Winner of "The Pfizer Organic Chemistry Poster Symposium" |

PROFESSIONAL SERVICE

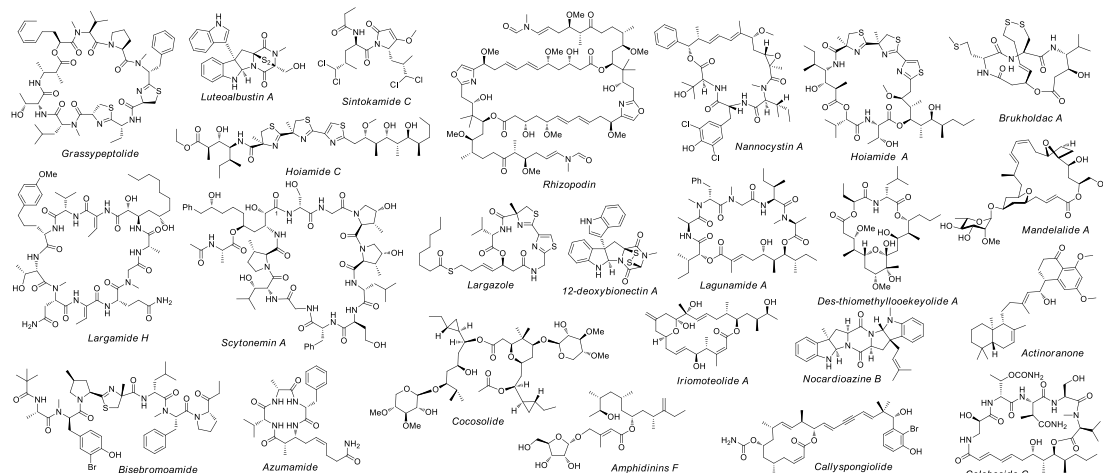
- Associate editor of the journal called "Frontiers in Chemical Biology".
- Member of Senior Editorial Board of "American Journal of Cancer Research",
- Member of Editorial Board of "Journal of Pharmaceutics".
- Member of Editorial Board of "Dataset Papers in Sciences",
- Member of Editorial Board of "Natural Products Chemistry & Research"
- Member of Editorial Board of "Chemical Biology Letters"

RESEARCH INTEREST

Our research interests span the disciplines of natural product synthesis, chemical biology and drug discovery, which include the discovery and development of new agents of medicinal value through major advances in chemical synthesis. Currently, we are working in two main areas:

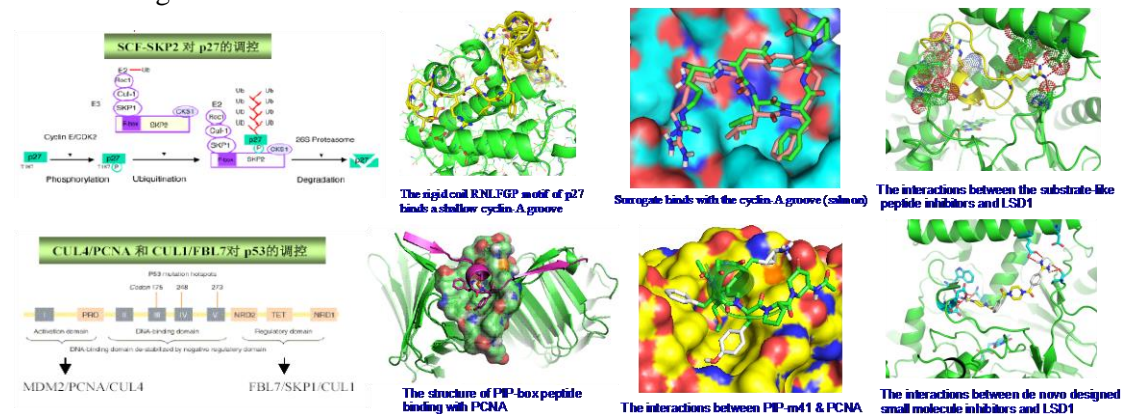
(1) Total Synthesis and Biological Evaluation of Natural Products and Their Analogues.

Natural products have provided considerable value to the pharmaceutical industry over the past half century. In particular, the therapeutic area of oncology has benefited from numerous drug classes derived from natural product sources. Chemical synthesis of natural products and their analogues has been a key tool in drug discovery and development. The synthesis allows verification of primary structure proposed on the basis of studies of natural product, and presents opportunities to modify the structure, with the ultimate aim of improving activity or physicochemical/biological properties of the lead molecule. Synthesis is also crucial in the establishment of structure-activity relationships since the ability to make analogues of the lead compound chemically is a prerequisite of drug discovery. We have been particularly devoting to the exploration of natural-products-based drug discovery. The larger part of our research program is dedicated to the training and research in synthesis and biological evaluation of natural products with known biological activities. Structures of some completed molecules are shown below:



(2) Design and Syntheses of Novel Small Molecule Bioprobes and Drugs.

Protein-protein interactions play a key role in most biological processes, and offer attractive opportunities for therapeutic intervention. The targeted manipulation of protein-protein interactions with the use of small molecules is rapidly gaining importance in the development of biological tools for dissecting living processes on a molecular level and for the discovery of conceptually novel drugs. Our research centers on rationally designed molecular probes / drug candidates, and their application to biological problems, especially in cancer biology and neurodegenerative disorders.



SELECTED PUBLICATION

1. Guo, Y.; Zhao, M.; Xu, Z.; Ye, T. "Total Synthesis and Stereochemical Assignment of Actinoranone" *Chem. Eur. J.* **2017**, *23*, 3572–3576.
2. Liao, L.; Zhou, J.; Xu, Z.; Ye, T. "Concise Total Synthesis of Nannocystin A" *Angew.*

- Chem. Int. Ed.* **2016**, *55*, 13263-13266.
- Zhou, J.; Gao, B.; Xu, Z.; Ye, T. "Total Synthesis and Stereochemical Assignment of Callyspongiolide" *J. Am. Chem. Soc.* **2016**, *138*, 6948-6951.
 - Gunasekera, S. P.; Li, Y.; Ratnayake, R.; Luo, D.; Lo, J.; Reibenspies, J. H.; Xu, Z.; Clare-Salzler, M. J.; Ye, T.; Paul, V. J.; Luesch, H. "Discovery, Total Synthesis and Key Structural Elements for the Immunosuppressive Activity of Cocosolide, a Symmetrical Glycosylated Macrolide Dimer from Marine Cyanobacteria" *Chem. Eur. J.* **2016**, *22*, 8158-8166.
 - Liu, J.; Wang, L.; Zhang, J.; Xu, Z.; Ye, T. "The total synthesis and stereochemical assignment of scytonemin A" *Chem. Commun.*, **2016**, *52*, 1002-1005.
 - Qu, S.; Chen, Y.; Wang, X.; Chen, S.; Xu, Z.; Ye, T. "Total Synthesis of Largamide B" *Chem. Commun.* **2015**, *51*, 2510-2513.
 - Lei, H.; Yan, J.; Yu, J.; Liu, Y.; Wang, Z.; Xu, Z.; Ye, T. "Total Synthesis and Stereochemical Reassignment of Mandelalide A" *Angew. Chem. Int. Ed.* **2014**, *53*, 6533-6537.
 - Zhang, X.; Lu, F.; Wang, J.; Yin, F.; Xu, Z.; Qi, D.; Wu, X.; Cao, Y.; Liang, W.; Liu, Y.; Sun, H.; Ye, T.; Zhang, H. "Pluripotent Stem Cell Protein Sox2 Confers Sensitivity towards LSD1 Inhibition in Cancer Cell", *Cell Reports*, **2013**, *5*, 445-457.
 - Song, L.; Liu, J.; Gui, H.; Hui, C.; Zhou, J.; Guo, Y.; Zhang, P.; Xu, Z.; Ye, T. "Synthesis of the Macrocyclic Core of Rhizopodin" *Chem. Asian J.* **2013**, *8*, 2955-2959.
 - Liu, H.; Liu, Y.; Wang, Z.; Xing, X.; Maguire, A. R.; Luesch, H.; Zhang, H.; Xu, Z.; Ye, T. "Total Synthesis and Biological Evaluation of Grassypeptolide A" *Chem. Eur. J.* **2013**, *19*, 6774-6784.
 - Long, B.; Tang, S.; Chen, L. Q.; Chen, B.; Liu, J.; Maguire, A. R.; Wang, Z.; Liu, Y.; Zhang, H.; Xu, Z.; Ye, T. "Total Synthesis of Padanamides A and B" *Chem. Commun.* **2013**, *49*, 2977-2979.
 - Dai, L.; Chen, B.; Lei, H.; Wang, Z.; Liu, Y.; Xu, Z.; Ye, T. "Total Synthesis and Stereochemical Revision of Lagunamide A" *Chem. Commun.* **2012**, *48*, 8697-8699.
 - Wang, M.; Feng, X.; Cai, L.; Xu, Z.; Ye, T. "Total Synthesis and Absolute Configuration of Nocardioazine B" *Chem. Commun.* **2012**, *48*, 4344 - 4346.
 - Wang, J.; Lu, F.; Ren, Q.; Sun, H.; Xu, Z.; Lan, R.; Liu, Y.; Ward, D.; Quan, J.; Ye, T.; Zhang, H. "Novel Histone Demethylase LSD1 Inhibitors Selectively Target Cancer Cells with Pluripotent Stem Cell Properties" *Cancer Research*, **2011**, *71*, 7238-7249.
 - Wang, L.; Xu, Z.; Ye, T. "Total Synthesis of Hoiamide C" *Org. Lett.* **2011**, *13*, 2506-2509.
 - Liu, Y.; Wang, Z.; Kwong, S.; Lui, E. L. H.; Friedman, S. L.; Li, F.; Lam, R. W. C.; Zhang, G. C.; Zhang, H.; Ye, T.; "Inhibition of PDGF, TGF- β and Abl Signaling and Reduction of Liver Fibrosis by the Small Molecule Bcr-Abl Tyrosine Kinase Antagonist Nilotinib" *J. Hepatology*, **2011**, *55*, 612-625.

Book: "Modern Catalytic Methods for Organic Synthesis with Diazo Compounds: From Cyclopropanes to Ylides" (652 pages), Doyle, M. P.; McKervey, M. A.; Ye, Tao, John Wiley & Sons, Inc., New York. **1998**