

# Jiang Zhi Hong



Position: Chair Professor  
Vice President, Macau University of Science and Technology  
Director, Macau Institute for Applied Research in Medicine and Health  
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Professor Jiang obtained the Bachelor and Master degrees from China Pharmaceutical University in 1987 and 1990, respectively. He earned his PhD degree from Nagasaki University, Japan in 1998. After postdoctoral training in Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, USA from 1999-2001, he joined School of Chinese Medicine, Hong Kong Baptist University in 2001 as an assistant professor, and was promoted to be an associate professor in 2005 and full professor in 2008. He was Associate Director of Teaching Division and Director of Master Program of Pharmaceutical Sciences in Chinese Medicine. In July 2011, he moved to Macau University of Science and Technology (MUST), and took the positions of Director of Macau Institute for Applied Research in Medicine and Health, and Deputy Director of State Key Laboratory for Quality Research in Chinese Medicines (MUST). In March 2016, he was appointed as Vice President of Macau University of Science and Technology.

Professor Jiang is an internationally-renowned scientist in natural products chemistry. His research interests include natural products chemistry, metabolomics, quality control of

Chinese medicinal herbs and bioorganic chemistry. In an effort to advance the modernization of Traditional Chinese medicines (TCM) research and development, Professor Jiang has devoted deeply to the characterization of the active ingredients of TCM, and elucidation of their action mechanism by using modern technologies of chromatography, spectroscopy, chemical biology and metabolomics, and has obtained outstanding achievements. Professor Jiang has published more than 300 papers in international SCI journals, which were cited 9460 times, with H-index of 57 (Google Scholar, 2018). Professor Jiang was awarded as the Young Distinguished Scholars by National Natural Science Foundation of China (Overseas) in 2007, and was appointed as Chair Professor of the Changjiang Scholars Programme by the Ministry of Education of China in 2014. His research was financially supported by the Macau Science and Technology Development Fund (FDCT), Hong Kong Research Grants Council, Department of Health of HKSAR, National Natural Science Foundation of China and National Institutes of Health (NIH) of U.S.A. He also serves in a number of important academic positions, including a member of International Advisory Board of ChemMedChem and Editorial Board Member of Scientific Reports (Nature Publishing Group). In addition, Professor Jiang also serves in multiple social service positions, including the Vice Presidents of the Speciality Committee on Immunology of TCM and the Speciality Committee of TCM Pharmaceutical Chemistry of the World Federation of Chinese Medicine Societies (WFCMS), the Vice Councilor of the Cross-Strait Scientific Collaboration Center for Chinese Medicine, and the member of the Macao Science and Technology Council.

### ***Teaching and Research Areas***

Teaching subjects: Advanced Natural Products Chemistry, Prospect and Progress in Chinese Medicine Research

Research Areas: Natural Products Chemistry, Metabolomics, Bioorganic Chemistry, Chemical Analysis of Chinese Herbs

### ***Academic Qualifications***

1998.3                      Ph.D, Nagasaki University, Japan

1990.7                      M. Sc., China Pharmaceutical University, Nanjing, China

1987.7                      B. Sc., China Pharmaceutical University, Nanjing, China

### ***Teaching Experience***

2015.9 - Present	Chair Professor, Macau University of Science and Technology
2011.7- 2015.8	Professor, Macau University of Science and Technology
2008.9 - 2011.6	Professor, School of Chinese Medicine, Hong Kong Baptist University
2005.7 - 2008.8	Associate Professor, School of Chinese Medicine, Hong Kong Baptist University
2001.10 - 2005.6	Assistant Professor, School of Chinese Medicine, Hong Kong Baptist University
1999.11 - 2001.9	(Sabbatical leave) Postdoctoral Research Fellow, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, U.S.A
1996.10 - 2001.9	Research Assistant Professor, School of Pharmaceutical Sciences, Nagasaki University, Japan
1990.7 - 1994.3	Research Associate, Lecturer, China Pharmaceutical University, Nanjing, China

### ***Representative Publications***

1. Y. Pan, T.-M. Yan, J.-R. Wang, **Z.-H. Jiang**. The nature of the modification at position 37 of tRNA<sup>Phe</sup> correlates with acquired taxol resistance. *Nucleic Acids Res*, **49**, 38-52, 2021.
2. T.-M. Yan, Y. Pan, M.-L. Yu, K. Hu, K.-Y. Cao, **Z.-H. Jiang**. Full-Range Profiling of tRNA Modifications Using LC–MS/MS at Single-Base Resolution through a Site-Specific Cleavage Strategy. *Anal Chem*, **93**, 1423-1432, 2020.
3. H. Huang, T.-T. Tong, L.-F. Yau, J.-R. Wang, M.-H. Lai, C.-R. Zhang, X.-H. Wen, S.-N. Li, K.-Y. Li, J.-Q. Liu, H.-X. Ma, B.-K. Tsang, **Z.-H. Jiang**. Chemerin isoform analysis in human biofluids using an LC/MRM-MS-based targeted proteomics approach with stable isotope-labeled standard. *Anal Chim Acta*, **1139**, 79-87, 2020.
4. T.-M. Yan, K. Hu, F. Ren, **Z.-H. Jiang**. LC-MS/MS profiling of post-transcriptional

modifications in ginseng tRNA purified by a polysaccharase-aided extraction method. *Biomolecules*, **10**, 621, 2020.

5. K.-Y. Cao, Y. Pan, T.-M. Yan, **Z.-H. Jiang**. Purification, characterization and cytotoxic activities of individual tRNAs from Escherichia coli. *Int J Biol Macromol*, **142**, 355-365, 2020.
6. B. Zhou, X. Liang, Q. Feng, J. Li, X. Pan, P. Xie, **Z.-H. Jiang**, Z. Yang. Ergosterol Peroxide Suppresses Influenza A Virus-Induced Pro-inflammatory Response and Apoptosis by Blocking RIG-I Signaling. *Eur J Pharmacol*, **860**, 172543, 2019.
7. X. Liu, J. Yang, J. Fu, X.-J. Yao, J.-R. Wang, L. Liu, **Z.-H. Jiang**, G.-Y. Zhu. Aggreganoids A–F, Carbon-Bridged Sesquiterpenoid Dimers and Trimers from Lindera Aggregate. *Org Lett*, **21**, 5753-5756, 2019.
8. C.-Y. Chen, G.-Y. Zhu, T.-G. Xie, P.-C. Jiang, J.-R. Wang, **Z.-H. Jiang**. A Phenanthroindolizidine Glycoside with HIF-1 Inhibitory Activity from Tylophora Atrofolliculata. *Phytochem Lett*, **31**, 39-42, 2019.
9. L.-F. Yau, J. Liu, M. Jiang, G. Bai, J.-R. Wang, **Z.-H. Jiang**. An Integrated Approach for Comprehensive Profiling and Quantitation of IgG-Fc Glycopeptides with Application to Rheumatoid Arthritis. *J Chromatogr B Analyt Technol Biomed Life Sci*, **1122-1123**, 64-72, 2019.
10. X. Liu, J. Yang, X. Yao, X. Yang, J. Fu, L.-P. Bai, L. Liu, **Z.-H. Jiang**, G.-Y. Zhu. Linderalides A-D, Disesquiterpenoids-Geranylbenzofuranone Conjugates from Lindera Aggregate. *J Org Chem*, **84**, 8242-8247, 2019.
11. X. Zhou, L. Chen, **Z.-H. Jiang**, X. Chen, P. Luo, L.-P. Bai. Synthesis of 21-Alkylidenes and 21-Alkylol Analogues of Uscharin and Their Effects on Intracellular Calcium in Cardiac Cells. *ChemistrySelect*, **4**, 5512-5517, 2019.
12. J. Wang, C. Wang, Y. Liang, H. Pan, **Z.-H. Jiang**, Z. Li, Y. Li, L. Xia, W. Liu, X. Zhang, Z. Liu, M. Jiang, J. Liu, H. Zhou, L. Liu. Serum IgG N-glycans act as novel serum biomarkers of ankylosing spondylitis. *Ann Rheum Dis*, **78**, 705-707, 2019.
13. J. Li, L.-M. Xie, J.-L. Song, L.-F. Yau, J.-N. Mi, C.-R. Zhang, W.-T. Wu, M.-H. Lai, **Z.-H. Jiang**, J.-R. Wang, H.-X. Ma. Alterations of Sphingolipid Metabolism in Different Types of Polycystic Ovary Syndrome. *Sci Rep*, **9**, 3204, 2019.
14. X. Zhou, Y.-Q. Qu, Z. Zheng, B.Y.-K. Law, S.W.-F. Mok, **Z.-H. Jiang**, V.K.-W. Wong, L.-P.

- Bai. Novel Dauricine Derivatives Suppress Cancer Via Autophagy-Dependent Cell Death. *Bioorg Chem*, **83**, 450-460, 2019.
15. D. Fan, T. Li, Z. Zheng, G.-Y. Zhu, X. Yao, **Z.-H. Jiang**, L.-P. Bai. Macrolide Sesquiterpene Pyridine Alkaloids from the Stems of *Tripterygium regelii*. *J Nat Med*, **73**, 23-33, 2019.
  16. B.-P. Xie, G.-H. Qiu, B. Sun, Z.-F. Yang, W.-H. Zhang, J.-X. Chen, **Z.-H. Jiang**. Synchronous Sensing of Three Conserved Sequences of Zika Virus Using a DNAs@MOF Hybrid: Experimental and Molecular Simulation Studies. *Inorg Chem Front*, **6**, 148-152, 2019.
  17. X. Liu, J. Yang, J. Fu, T.-G. Xie, P.-C. Jiang, **Z.-H. Jiang**, G.-Y. Zhu. Phytochemical and Chemotaxonomic Studies on the Twigs of *Cinnamomum cassia* (Lauraceae). *Biochem Syst Ecol*, **81**, 45-48, 2018.
  18. H. Huang, T.-T. Tong, L.-F. Yau, C.-Y. Chen, J.-N. Mi, J.-R. Wang, **Z.-H. Jiang**. LC-MS Based Sphingolipidomic Study on A549 Human Lung Adenocarcinoma Cell Line and Its Taxol-Resistant Strain. *BMC Cancer*, **18**, 799, 2018.
  19. J. M, Y. Han, Y. Xu, J. Kou, W.-J. Li, J.-R. Wang, **Z.-H. Jiang**. Deep Profiling of Immunosuppressive Glycosphingolipids and Sphingomyelins in Wild Cordyceps. *J. Agric. Food Chem.*, **66**, 8991-8998, 2018.
  20. J.-R. Wang, W.-N. Gao, R. Grimm, S. Jiang, Y. Liang, H. Ye, Z.-G. Li, L.-F. Yau, H. Huang, J. Liu, M. Jiang, Q. Meng, T.-T. Tong, H.-H. Huang, S. Lee, X. Zeng, L. Liu, **Z.-H. Jiang**. Reply to 'Trace N-Glycans Including Sulphated Species May Originate from Various Plasma Glycoproteins and Not Necessarily IgG'. *Nat Commun.*, **9**, 2915, 2018.
  21. X. Liu, J. Fu, X.-J. Yao, J. Yang, L. Liu, T.-G. Xie, P.-C. Jiang, **Z.-H. Jiang**, G.-Y. Zhu. Phenolic Constituents Isolated from the Twigs of *Cinnamomum Cassia* and Their Potential Neuroprotective Effects. *J Nat Prod.*, **81**, 1333-1342, 2018.
  22. G.-Y. Zhu, J. Yang, X.-J. Yao, X. Yang, J. Fu, X. Liu, L.-P. Bai, L. Liu, **Z.-H. Jiang**. (+/-)-Sativamides A and B, Two Pairs of Racemic Nor-Lignanamide Enantiomers from the Fruits of *Cannabis Sativa*. *J. Org. Chem.*, **83**, 2376-2381, 2018.
  23. J. Yang, J. Fu, X. Liu, **Z.-H. Jiang**, G.-Y. Zhu. Monoterpenoid Indole Alkaloids from The Leaves of *Alstonia Scholaris* and Their NF-Kappa B Inhibitory Activity. *Fitoterapia*, **124**, 73-79, 2018.
  24. J.-R. Wang, W.-N. Gao, R. Grimm, S. Jiang, Y. Liang, H. Ye, Z.-G. Li, L.-F. Yau, H. Huang,

- J. Liu, M. Jiang, Q. Meng, T.-T. Tong, H.-H. Huang, S. Lee, X. Zeng, L. Liu, **Z.-H. Jiang**. A Method to Identify Trace Sulfated IgG N-glycans as Biomarkers for Rheumatoid Arthritis. *Nat Commun.*, **8**, 631, 2017.
25. J. Gao, M. Chen, X.-C. Ren, X.-B. Zhou, Q. Shang, W.-Q. Lu, P. Luo, **Z.-H. Jiang**. Synthesis and Cardiomyocyte Protection Activity of Crocetin Diamide Derivatives. *Fitoterapia*, **121**, 106-111, 2017.
  26. L.-M. Xie, L.-F. Yau, **Z.-H. Jiang**, L.-Y. Zhang, Y. Xia, J.-R. Wang. Sphingolipidomic Study of Davidiin-treated HepG2 Human Hepatocellular Carcinoma Cells Using UHPLC-MS. *RSC Advances*, **7**, 55249-55256, 2017.
  27. X.-B. Zhou, M. Chen, Z. Zheng, G.-Y. Zhu, **Z.-H. Jiang**, L.-P. Bai. Synthesis and Evaluation of Novel 12-Aryl Berberine Analogues with Hypoxia-inducible Factor-1 Inhibitory Activity. *RSC Advances*, **7**, 26921-26929, 2017.
  28. D. Fan, S. Zhou, Z. Zheng, G.-Y. Zhu, X.-J. Yao, M.-R. Yang, **Z.-H. Jiang**, L.-P. Bai. New Abietane and Kaurane Type Diterpenoids from the Stems of *Tripterygium regelii*. *Int J Mol Sci.*, **18**, 147, 2017.
  29. S. Parhira, G.-Y. Zhu, M. Chen, L.-P. Bai, **Z.-H. Jiang**. Cardenolides from *Calotropis Gigantea* as Potent Inhibitors of Hypoxia-inducible Factor-1 Transcriptional Activity. *J Ethnopharmacol.*, **194**, 930-936, 2016.
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  31. H. Huang, T.-T. Tong, L.-F. Yau, C.-Y. Chen, J.-N. Mi, J.-R. Wang, **Z.-H. Jiang**. LC-MS Based Sphingolipidomic Study on A2780 Human Ovarian Cancer Cell Line and its Taxol-resistant Strain. *Sci Rep.*, **6**, 34684, 2016.
  32. Q.-T. Feng, G.-Y. Zhu, W.-N. Gao, Z. Yang, N. Zhong, J.-R. Wang, **Z.-H. Jiang**. Two New Alkaloids from the Roots of *Baphicacanthus cusia*. *Chem Pharm Bull.*, **64**, 1505-1508, 2016.
  33. D. Fan, G.-Y. Zhu, T. Li, **Z.-H. Jiang**, L.-P. Bai. Dimacrolide Sesquiterpene Pyridine Alkaloids from the Stems of *Tripterygium regelii*. *Molecules*, **21**, 1146, 2016.
  34. D. Fan, S. Parhira, G.-Y. Zhu, **Z.-H. Jiang**, L.-P. Bai. Triterpenoids from the Stems of *Tripterygium Regelii*. *Fitoterapia*, **113**, 69-73, 2016.
  35. J.-R. Wang, T.-T. Tong, L.-F. Yau, C.-Y. Chen, L.-P. Bai, J. Ma, M. Hu, L. Liu, **Z.-H. Jiang**.

Characterization of Oxygenated Metabolites of Ginsenoside Rg1 in Plasma and Urine of Rat. *J Chromatogr B Analyt Technol Biomed Life Sci*, **1026**, 75-86, 2016.

36. D. Fan, G.-Y. Zhu, M. Chen, L.-M. Xie, **Z.-H. Jiang**, L. Xu, L.-P. Bai. Dihydro-beta-agarofuran Sesquiterpene Polyesters Isolated from the Stems of *Tripterygium Regelii*. *Fitoterapia*, **112**, 1-8, 2016.
37. Q. Meng, L.-F. Yau, J.-G. Lu, Z.-Z. Wu, B.-X. Zhang, J.-R. Wang, **Z.-H. Jiang**. Chemical Profiling and Cytotoxicity Assay of Bufadienolides in Toad Venom and Toad Skin. *J Ethnopharmacol.*, **187**, 74-82, 2016.
38. S. Parhira, G.-Y. Zhu, T. Li, L. Liu, L.-P. Bai, **Z.-H. Jiang**. Inhibition of IKK-beta by Epidioxysterols from the Flowers of *Calotropis Gigantea* (Niu jiao gua). *Chin Med*, **11**, 9, 2016.
39. J. Mi, J.-R. Wang, **Z.-H. Jiang**, Quantitative Profiling of Sphingolipids in Wild Cordyceps and Its Mycelia by Using UHPLC-MS. *Sci Rep.*, **6**, 20870, 2016.
40. C.-Y. Chen, L.-P. Bai, Z.-F. Ke, Y. Liu, J.-R. Wang, **Z.-H. Jiang**. G-Quadruplex DNA-binding Quaternary Alkaloids from *Tylophora Atrofolliculata*. *RSC Advances*, **6**, 114135-114142, 2016.
41. C.-Y. Chen, G.-Y. Zhu, J.-R. Wang, **Z.-H. Jiang**. Phenanthroindolizidine Alkaloids from *Tylophora Atrofolliculata* with Hypoxia-inducible Factor-1 (HIF-1) Inhibitory Activity. *RSC Advances*, **6**, 79958-79967, 2016.
42. J. Li, B.-X. Zhou, C.-F. Li, Q.-Y. Chen, Y.-T. Wang, Z.-T. Li, T.-T. Chen, C.-G. Yang, **Z.-H. Jiang**, Nanshan Zhong, Zifeng Yang, Rongchang Chen. Lariciresinol-4-O- $\beta$ -D-glucopyranoside from the Root of *Isatis Indigotica* Inhibits Influenza A Virus-induced Pro-inflammatory Response. *J. Ethnopharmacology*, **174**, 379-386, 2015.
43. W.-N. Gao, L.-F. Yau, L. Liu, X. Zeng, D.-C. Chen, M. Jiang, J. Liu, J.-R. Wang, **Z.-H. Jiang**. Microfluidic Chip-LC/MS-based Glycomic Analysis Revealed Distinct N-glycan Profile of Rat Serum. *Scientific Reports*, **5**, 12844, 2015.
44. J.-R. Wang, W.-D. Guan, L.-F. Yau, W. Gao, Y.-Q. Zhan, L. Liu, Z.-F. Yang, **Z.-H. Jiang**. Glycomic Signatures on Serum IgGs for Prediction of Postvaccination Response. *Scientific Reports*, **5**, 7648, 2015.
45. Z.-F. Yang, L.-H. Leung, L. Liu, **Z.-H. Jiang**, N. Zhong. Developing Influenza Treatments Using Traditional Chinese Medicine. *Science*, S9-11, 2015.

46. J.-R. Wang, L.-F. Yau, T.-T. Tong, Q.-T. Feng, L.-P. Bai, J. Ma, M. Hu, L. Liu, **Z.-H. Jiang**. Characterization of Oxygenated Metabolites of Ginsenoside Rb1 in Plasma and Urine of Rat. *J. Agric. and Food Chem.*, **63**, 2689-2700, 2015.
47. L.-H. Leung, K.-W. Wong, **Z.-H. Jiang**, T. Li, L. Liu. Integrated Network-based Medicine: The Role of Traditional Chinese Medicine in Developing a New Generation of Medicine. *Science*, S16-18, 2014.
48. L.-P. Bai, Hagihara, K. Nakatani, **Z.-H. Jiang**. Recognition of Chelerythrine to Human Telomeric DNA and RNA G-quadruplexes. *Scientific Reports*, **4**, 6767, 2014.
49. J.-R. Wang, L.-F. Yau, W. Gao, Y. Liu, P.-W. Yick, L. Liu, **Z.-H. Jiang**. Quantitative Comparison and Metabolite Profiling of Saponins in Different Parts of the Root of *Panax notoginseng*. *J. Agric. and Food Chem.*, **62**, 9024-9034, 2014.
50. G.-Y. Zhu, X.-J. Yao, L.-P. Bai, L. Liu, **Z.-H. Jiang**. Limonoids from the Fruits of *Melia toosendan* and Their NF- $\kappa$ B Modulating Activities. *Phytochemistry*, **107**, 175-181, 2014.
51. S. Parhira, Z.-F. Yang, G.-Y. Zhu, Q.-L. Chen, B.-X. Zhou, Y.-T. Wang, L. Liu, L.-P. Bai, **Z.-H. Jiang**. In Vitro Anti-influenza Virus Activities of a New Lignan Glycoside from the Latex of *Calotropis gigantea*. *PLoS ONE*, **9**, e104544, 2014.
52. L.-P. Bai, H.-M. Ho, R.-X. Wang, **Z.-H. Jiang**. Mass Spectrometric Studies on Effects of Counter Ions of TMPyP4 on Binding to Human Telomeric DNA and RNA G-Quadruplexes. *Anal. Bioanal. Chem.*, **406**, 5455-5463, 2014.
53. J.-R. Wang, H. Zhang, L.-F. Yau, J. Mi, S. Lee, K.-C. Lee, P. Hu, L. Liu, **Z.-H. Jiang**. Improved Sphingolipidomic Approach Based on Ultra-High Performance Liquid Chromatography and Multiple Mass Spectrometries with Application to Cellular Neurotoxicity. *Analytical Chemistry*, **86**, 5688-5696, 2014.
54. S. Parhira, G.-Y. Zhu, R.-W. Jiang, L. Liu, L.-P. Bai, **Z.-H. Jiang**. 2-Epi-uscharin from the Latex of *Calotropis gigantea* with HIF-1 Inhibitory Activity". *Scientific Reports*, **4**, 4748, 2014.
55. G.-Y. Zhu, X.-J. Yao, L. Liu, L.-P. Bai, **Z.-H. Jiang**. Alistonitrine A, a Caged Monoterpene Indole Alkaloid from *Alstonia scholaris*. *Organic Letters*, **16**, 1080-1083, 2014.
56. G.-Y. Zhu, G. Chen, L. Liu, L.-P. Bai, **Z.-H. Jiang**. Lactam-bearing limonoids from the twigs and leaves of *Amoora tsangii*. *J. Nat. Prod.*, **77**, 983-989, 2014.
57. J.-R. Wang, L.-F. Yau, R. Zhang, Y. Xia, J. Ma, H.-M. Ho, P. Hu, M. Hu, L. Liu, **Z.-H. Jiang**.



Transformation of Ginsenosides from Notoginseng by Artificial Gastric Juice Can Increase Cytotoxicity Towards Cancer Cells. *J. Agric. and Food Chem.* **62**, 2558-2573, 2014.

58. Z.-F. Yang, L.-P. Bai, W.-B. Huang, X.-Z. Li, S.-S. Zhao, N.-S. Zhong, **Z.-H. Jiang**. Comparison of in vitro antiviral activity of tea polyphenols against influenza A and B viruses and structure-activity relationship analysis. *Fitoterapia*, **93**, 47-53, 2014.
59. Q.-B. Han, W.-L. Tang, C.-X. Dong, H.-X. Xu, **Z.-H. Jiang**. An interesting two-phase solvent system and its use in preparative isolation of aconitines from aconite roots by counter-current chromatography. *J. of Separation Science*, **36**, 1304-1310, 2013.
60. L. Zhu, Q.-B. Han, H.-M. Ho, W.-L. Hsiao, **Z.-H. Jiang**. Characterization and Simultaneous Determination of Immunosuppressive Decalins in Red Yeast Rice by Ultra-high-performance Liquid Chromatography Hyphenated with Mass Spectrometry. *J. of Chromatography A*, **1303**, 54-61, 2013.
61. L.-P. Bai, H.-M. Ho, D.-L. Ma, H. Yang, W.-C. Fu, **Z.-H. Jiang**. Aminoglycosylation can enhance the G-quadruplex binding activity of epigallocatechin. *PLoS ONE*, **8**, e53962, 2013.
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63. H. Zhang, J.-R. Wang, L. Yau, H. Ho, C. Chan, P. Hu, L. Liu\*, **Z.-H. Jiang\***. Cellular Lipidomic Study on the A $\beta$ -induced Neurotoxicity and Neuroprotective Effect of EGCG by Using UPLC/MS Based Glycerolipid Profiling and Multivariate Analysis. *Molecular BioSystems*, **8**, 3208-3215, 2012.
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66. J.-R. Wang, T. Tanaka, H. Zhang, I. Kouno, **Z.-H. Jiang**. Formation and Conformation of Baicalin-Berberine and Wogonoside-Berberine Complexes. *Chem. Pharm. Bull.*, **60**,

706-711, 2012.

67. H. He, L.-P. Bai, **Z.-H. Jiang**. Synthesis and Human Telomeric G-quadruplex DNA-Binding Activity of Glucosaminosides of Shikonin/alkannin. *Bioorg. & Med. Chem. Lett.*, **22**, 1582-1586, 2012.
68. H.-H. Kwok, G.-L. Guo, J. K.-C. Lau, Y.-K. Cheng, J.-R. Wang, **Z.-H. Jiang**, M.-H. Keung, N.-K. Mak, P. Y.-K. Yue, R. N.-S. Wong. Stereoisomers Ginsenosides-20(S)-Rg3 and -20(R)-Rg3 Differentially Induce Angiogenesis through Peroxisome Proliferator-activated Receptor-gamma. *Biochemical Pharmacology*, **83**, 893-902, 2012.
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70. Y. Liu, Z. Ke, K.-Y. Wu, S. Liu, W.-H. Chen, S. Jiang, **Z.-H. Jiang**. An Amphiphilic Conjugate Approach toward the Design and Synthesis of Betulinic Acid-Polyphenol Conjugates as Inhibitors of the HIV-1 gp41 Fusion Core Formation. *ChemMedChem*, **6**, 1654-1664, 2011.
71. B. Y.-W. Man, H.-M. Chan, C.-H. Leung, D. S.-H. Chan, L.-P. Bai, **Z.-H. Jiang**, H.-W. Li, D.-L. Ma. Group 9 Metal-based Inhibitors of  $\beta$ -Amyloid (1–40) Fibrillation as Potential Therapeutic Agents for Alzheimer's Disease. *Chemical Science*, **2**, 917-921, 2011.
72. D. S.-H. Chan, B. Y.-W. Man, H. Yang, M. H.-T. Kwan, L.-P. Bai, **Z.-H. Jiang**, D.-L. Ma, C.-H. Leung. Structure-based optimization of FDA-approved drug methylene blue as a c-myc G-Quadruplex DNA stabilizer. *Biochimie*, **93**, 1055-1064, 2011.

### **Membership of Academic Associations**

- 1) American Chemical Society
- 2) Pharmaceutical Society of Japan
- 3) Chinese Chemical Society

### **Awards**

- 1) HKBU Presidential Award for Outstanding Performance in Scholarly Work, 2006
- 2) National Outstanding Young Scholar Award (Oversea Scholar), NSFC, 2007

- 3) Most Cited Paper Award (2005-2008) by “Bioorganic & Medicinal Chemistry”
- 4) Chang Jiang Scholar Chair Professorship, 2014