Curriculum Vitae of Yi Zhun Zhu

Dr. Yi Zhun Zhu is a licensed physician and Chair Professor of Pharmacology, dean of School of Pharmacy, acting dean of Faculty of Chinese Medcine, Macau University of Science and Technology. Dr. Zhu got his Bachelor of Medicine at Shanghai Jiaotong University in 1989 and M.D./Ph.D. from Faculty of Medicine, University of Heidelberg, Germany in 1995. He joined as a faculty member of the Department of Pharmacology, National University of Singapore (NUS) in 1998 after postdoc training at Kiel University and industrial experience at Hoechst Marion Roussel (now Sanofil). Dr. Zhu has more than 2 decades teaching and research in world class universities (NUS and Fudan) and published more than 330 peer-reviewed papers with 14813 citations (H index 66, i10 index 226 as dated on Apr 10, 2022) and edited 6 books for his work. He is/was an editor-in-chief for ***Cardiovasc. Regenerative Med.*** and associate editor for ***J Alzheimer Diseases***, ***Biosci. Reports*** academic editor for ***PLoS One*** and editorial board member for other 6 scientific journals. Dr. Zhu has extensive experience in teaching management, is also editor-in-chief for the national text book of Pharmacology (7^{th} and 8^{th} edition [Chinese version] and 1^{st} edition [English version], People's Medical Publishing House), Dr. Zhu was awarded 'Lee Kuan Yew' Research fellowship from Singapore in 1998, 'National Distinguished Young Scientist from Natural Science Foundation of China (NSFC) in 2008 and Chief Scientist of National Key Basic Research Program (973) and Chief-PI for the National Platform of Drug Discovery in 2009. Dr. Zhu further received National Award for Innovative Research Work of the Returnees in 2009 from the State Council and Magnolia Golden Award from Shanghai Government in 2019. Dr. Zhu was awarded Cheung Kong Chair Professorship in 2012 by the Ministry of Education, China. In 2014, Dr. Zhu was awarded 'Health China' top 10 figures of the year and Natural Science Research

Award (ranked first among the Second Class of 3, top award of the year) from Macau in 2018. His research focuses on drug developments especially for heart and brain. The original research of motherwort (transferred to the enterprise for 150 million RMB) received 2 clinical approvals for CFDA as a novel candidate drug and started clinical phase II trials. Phase I clinical trial as first-in-class will be started in US as well with the final approval by the FDA. In September 2012, the US '***Science***' magazine reported that Professor Zhu was the one of the most successful Chinese returnees scientists (September 2, 2012, p. 1692). In 2017, the American Chemical Society's news journal ***'C&EN'*** featured Professor Zhu's experience in drug development and praised him as one of the pioneers of life science research in China (April 3, 2017, 27-29).

Publications list (total 305 publications, H index 66, i10 index 226 as dated on Apr 10, 2022):

1. Yu, Y, Wang, Z, Wang, R, Jin, J, **Zhu, Y. Z.*** (2021) Short-Term Oral Administration of Mesoporous Silica Nanoparticles Potentially Induced Colon Inflammation in Rats Through Alteration of Gut Microbiota. *INTERNATIONAL JOURNAL OF NANOMEDICINE* 16, 881-893
2. Lei, HP, Qin, M, Cai, LY, Wu, H, Tang, L, Liu, JE, Deng, CY, Liu, YB, Zhu, Q, Li, HP, Hu, W, Yang, M, **Zhu, Y. Z.***, Zhong, SL*(2021) UGT1A1 rs4148323 A Allele is Associated With Increased 2-Hydroxy Atorvastatin Formation and Higher Death Risk in Chinese Patients With Coronary Artery Disease. *FRONTIERS IN PHARMACOLOGY* 12,188
3. Wang, Xi, He, Lin, Huang, Xiaobing, Zhang, Shasha, Che, Feifei, Dai, Jingying, Cao, Wanjun, **Zhu, Y. Z.*** (2021) Recent progress of exosomes in multiple myeloma: Pathogenesis, diagnosis, prognosis and therapeutic strategies. *Cancers* 13 (7), 1635
4. Pang, X.C., Zhang, H.X., Zhang, Z., Rinkiko, S., Cui, Y.M., **Zhu, Y. Z.***. (2021) The Two-Way Switch Role of ACE2 in the Treatment of Novel Coronavirus Pneumonia and Underlying Comorbidities. *MOLECULES* 26(1) 142
5. Ali, Fayaz, Khan, Sher Bahadar, Shaheen, Nusrat, **Zhu, Y. Z.*** (2021) Eggshell membranes coated chitosan decorated with metal nanoparticles for the catalytic reduction of organic contaminates. *Carbohydrate Polymers* 259
6. Yang,D., Wang, Q., Wei, G., Wu, J. X., Zhu, Y. C., Zhu, Q., Ni, T., Liu, X. H., and **Zhu, Y. Z.*** (2020) Smyd3-PARP16 axis accelerates unfolded protein response and vascular aging. *Aging (Albany NY)* 12 (21), 21423-21445
7. Rose, P, Moore, P.K., Whiteman, M., Kirk, C., **Zhu, Y. Z.***. (2020) Forum Review: Diet and Hydrogen Sulfide Production in Mammals. *ANTIOXIDANTS & REDOX SIGNALING*
8. Huang, M. W., Wang, Q., Long, F., Di, Y., Wang, J. H., **Zhu, Y. Z.***, and Liu, X. H. (2020) Jmjd3 regulates inflammasome activation and aggravates DSS-induced colitis in mice. *Faseb J* **34**, 4107-4119

9. Xiong, Y., Chang, L. L., Tran, B., Dai, T., Zhong, R., Mao, Y. C., and **Zhu, Y. Z.*** (2020) ZYZ-803, a novel hydrogen sulfide-nitric oxide conjugated donor, promotes angiogenesis via cross-talk between STAT3 and CaMKII. *Acta Pharmacol Sin* **41**, 218-228
10. Li, Y. Y., Lin, Y. K., Liu, X. H., Wang, L., Yu, M., Li, D. J., **Zhu, Y. Z.***, and Du, M. R. (2020) Leonurine: From Gynecologic Medicine to Pleiotropic Agent. *Chin J Integr Med* **26**, 152-160
11. Wang, Z. J., Chang, L. L., Wu, J., Pan, H. M., Zhang, Q. Y., Wang, M. J., Xin, X. M., Luo, S. S., Chen, J. A., Gu, X. F., Guo, W., and **Zhu, Y. Z.*** (2020) A Novel Rhynchophylline Analog, Y396, Inhibits Endothelial Dysfunction Induced by Oxidative Stress in Diabetes Through Epidermal Growth Factor Receptor. *Antioxid Redox Sign* **32**, 743-765
12. Suguro, R., Pang, X. C., Yuan, Z. W., Chen, S. Y., **Zhu, Y. Z.***, and Xie, Y. (2020) Combinational applicaton of silybin and tangeretin attenuates the progression of non-alcoholic steatohepatitis (NASH) in mice via modulating lipid metabolism. *Pharmacol Res* **151**
13. Long, F., Wang, Q., Yang, D., Zhu, M. L., Wang, J. H., **Zhu, Y. Z.***, and Liu, X. H. (2020) Targeting JMJD3 histone demethylase mediates cardiac fibrosis and cardiac function following myocardial infarction. *Biochemical and biophysical research communications* **528**, 671-677
14. Pang, X. C., Cui, Y. M., and **Zhu, Y. Z.*** (2020) Recombinant human ACE2: potential therapeutics of SARS-CoV-2 infection and its complication. *Acta Pharmacol Sin* **41**, 1255-1257
15. Ning, K., Wang, M. J., Lin, G., Zhang, Y. L., Li, M. Y., Yang, B. F., Chen, Y., Huang, Y., Li, Z. M., Huang, Y. J., Zhu, L., Liang, K., Yu, B., **Zhu, Y. Z.***, and Zhu, Y. C. (2020) eNOS-Nitric Oxide System Contributes to a Novel Antiatherogenic Effect of Leonurine via Inflammation Inhibition and Plaque Stabilization. *J Pharmacol Exp Ther* **373**, 463-475
16. Yang, D., Wei, G., Long, F., Nie, H. B., Tian, X. L., Qu, L. F., Wang, S. X., Li, P., Qiu, Y., Wang, Y., Hong, W. J., Ni, T., Liu, X. H., and **Zhu, Y. Z.*** (2020) Histone methyltransferase Smyd3 is a new regulator for vascular senescence. *Aging Cell* **19:**1-13
17. An, P. J., **Zhu, Y. Z.***, and Yang, L. P. (2020) Biochemical indicators of coronavirus disease 2019 exacerbation and the clinical implications. *Pharmacol Res* **159**, 104946
18. Luo, S., Xu, S., Liu, J., Ma, F., and **Zhu, Y. Z.*** (2020) Design and synthesis of novel SCM-198 analogs as cardioprotective agents: Structure-activity relationship studies and biological evaluations. *Eur J Med Chem* **200**, 112469
19. Ding, Q., Shao, C., Rose, P., and **Zhu, Y. Z.*** (2020) Epigenetics and Vascular Senescence–Potential New Therapeutic Targets? *Front Pharmacol* **11** 535395
20. Yang, D., Wang, Q., Wei, G., Wu, J., Zhu, Y. C., Zhu, Q., Ni, T., Liu, X., and **Zhu, Y. Z.*** (2020) Smyd3-PARP16 axis accelerates unfolded protein response and vascular aging. *Aging* **12**, 21423-21445
21. Qin, M., Long, F., Wu, W. J., Yang, D., Huang, M. W., Xiao, C. X., Chen, X., Liu, X. H., and **Zhu, Y. Z.*** (2019) Hydrogen sulfide protects against DSS-induced colitis by inhibiting NLRP3 inflammasome. *Free Radical Bio Med* **137**, 99-109
22. Guo, W., Li, D., You, Y., Li, W. Z., Hu, B., Zhang, S. L., Miao, L., Xian, M., **Zhu, Y. Z.***, and Shen, X. Y.

(2019) Cystathionine -lyase deficiency aggravates obesity-related insulin resistance via FoxO1-dependent hepatic gluconeogenesis. *Faseb J* **33**, 4212-4224

23. Chang, L. L., Wang, Z. J., Ma, F. F., Tran, B., Zhong, R., Xiong, Y., Dai, T., Wu, J., Xin, X. M., Guo, W., Xie, Y., Mao, Y. C., and **Zhu, Y. Z.*** (2019) ZYZ-803 Mitigates Endoplasmic Reticulum Stress-Related Necroptosis after Acute Myocardial Infarction through Downregulating the RIP3-CaMKII Signaling Pathway. *Oxidative medicine and cellular longevity* **2019**
24. Wu, W. J., Qin, M., Jia, W. W., Huang, Z., Li, Z. Z., Yang, D., Huang, M. W., Xiao, C. X., Long, F., Mao, J. C., Moore, P. K., Liu, X. H., and **Zhu, Y. Z.*** (2019) Cystathionine-gamma-lyase ameliorates the histone demethylase JMJD3-mediated autoimmune response in rheumatoid arthritis. *Cell Mol Immunol* **16**, 694-705
25. Xiong, Q. H., Wang, Z. J., Yu, Y., Wen, Y. D., Suguro, R., Mao, Y. C., and **Zhu, Y. Z.*** (2019) Hydrogen sulfide stabilizes atherosclerotic plaques in apolipoprotein E knockout mice. *Pharmacol Res* **144**, 90-98
26. Yang, D., Xiao, C. X., Long, F., Wu, W. J., Huang, M. W., Qu, L. F., Liu, X. H., and **Zhu, Y. Z.*** (2019) Fra-1 plays a critical role in angiotensin II-induced vascular senescence. *Faseb J* **33**, 7603-7614
27. Li, Y. Y., Lin, Y. K., Huang, X. X., Xu, C. F., Liu, X. H., Wang, L., Yu, M., Li, D. J., **Zhu, Y. Z.***, and Du, M. R. (2019) SCM-198 protects endometrial stromal cells from oxidative damage through Bax/Bcl-2 and ERK signaling pathways. *Acta Bioch Bioph Sin* **51**, 580-587
28. Wang, Z. J., Wu, J., Guo, W., and **Zhu, Y. Z.*** (2019) Novel Rhynchophylline Analogue, Y396, Improves Endothelial Malfunction Induced by Oxidative Stress in Diabetes. *Journal of the American College of Cardiology* **73**, S29-S29
29. Zhang, Q. Y., Wang, Z. J., Miao, L., Wang, Y., Chang, L. L., Guo, W., and **Zhu, Y. Z.*** (2019) Neuroprotective Effect of SCM-198 through Stabilizing Endothelial Cell Function. *Oxidative medicine and cellular longevity* **2019**
30. Rose, P., Moore, P. K., Whiteman, M., and **Zhu, Y. Z.*** (2019) An Appraisal of Developments in Allium Sulfur Chemistry: Expanding the Pharmacopeia of Garlic. *Molecules* **24**
31. Tran, B. H., Yu, Y., Chang, L. L., Tan, B., Jia, W. W., Xiong, Y., Dai, T., Zhong, R., Zhang, W. P., Le, V. M., Rose, P., Wang, Z. J., Mao, Y. C., and **Zhu, Y. Z.*** (2019) A Novel Liposomal S-Propargyl-Cysteine: A Sustained Release of Hydrogen Sulfide Reducing Myocardial Fibrosis via TGF-beta 1/Smad Pathway. *Int J Nanomed* **14**, 10061-10077
32. Rose, P., Moore, P. K., and **Zhu, Y. Z.*** (2018) Garlic and Gaseous Mediators. *Trends Pharmacol Sci* **39**, 624-634
33. Yang, D., Xiao, C. X., Long, F., Su, Z. H., Jia, W. W., Qin, M., Huang, M. W., Wu, W. J., Suguro, R., Liu, X. H., and **Zhu, Y. Z.*** (2018) HDAC4 regulates vascular inflammation via activation of autophagy. *Cardiovascular research* **114**, 1016-1028
34. Liu, S. Y., Wang, X. L., Pan, L. L., Wu, W. J., Yang, D., Qin, M., Jia, W. W., Xiao, C. X., Long, F., Ge, J. B., Liu, X. H., and **Zhu, Y. Z.*** (2018) Endogenous hydrogen sulfide regulates histone demethylase JMJD3-mediated inflammatory response in LPS-stimulated macrophages and in a mouse model

of LPS-induced septic shock. *Biochem Pharmacol* **149**, 153-162

35. Wang, X. L., Pan, L. L., Long, F., Wu, W. J., Yan, D., Xu, P., Liu, S. Y., Qin, M., Jia, W. W., Liu, X. H., and **Zhu, Y. Z.*** (2018) Endogenous Hydrogen Sulfide Ameliorates NOX4 Induced Oxidative Stress in LPS-Stimulated Macrophages and Mice. *Cell Physiol Biochem* **47**, 458-474
36. Wu, D., Hu, Q. X., Xiong, Y., Zhu, D. Q., Mao, Y. C., and **Zhu, Y. Z.*** (2018) Novel H2S-NO hybrid molecule (ZYZ-803) promoted synergistic effects against heart failure. *Redox biology* **15**, 243-252
37. Jia, W. W., Wu, W. J., Yang, D., Xiao, C. X., Su, Z. H., Huang, Z., Li, Z. Z., Qin, M., Huang, M. W., Liu, S. Y., Long, F., Mao, J. C., Liu, X. H., and **Zhu, Y. Z.*** (2018) Histone demethylase JMJD3 regulates fibroblast-like synoviocyte-mediated proliferation and joint destruction in rheumatoid arthritis. *Faseb J* **32**, 4031-4042
38. Shen, Y. Q., Shen, Z. Q., Guo, L. Y., Zhang, Q. Y., Wang, Z. J., Miao, L., Wang, M. J., Wu, J., Guo, W., and **Zhu, Y. Z.*** (2018) MiR-125b-5p is involved in oxygen and glucose deprivation injury in PC-12 cells via CBS/H2S pathway. *Nitric Oxide-Biol Ch* **78**, 11-21
39. Jia, W. W., Wu, W. J., Yang, D., Xiao, C. X., Huang, M. W., Long, F., Su, Z. H., Qin, M., Liu, X. H., and **Zhu, Y. Z.*** (2018) GATA4 regulates angiogenesis and persistence of inflammation in rheumatoid arthritis. *Cell death & disease* **9**
40. Wen, Y. D., Wang, H., and **Zhu, Y. Z.*** (2018) The Drug Developments of Hydrogen Sulfide on Cardiovascular Disease. *Oxidative medicine and cellular longevity* **2018**
41. Wu, D., Hu, Q. X., Tan, B., Rose, P., Zhu, D. Q., and **Zhu, Y. Z.*** (2018) Amelioration of mitochondrial dysfunction in heart failure through S-sulfhydration of Ca2+ /calmodulin-dependent protein kinase II. *Redox biology* **19**, 250-262
42. Kao, C., Chandna, R., Ghode, A., Dsouza, C., Chen, M., Larsson, A., Lim, S. H., Wang, M. J., Cao, Z. L., **Zhu, Y. Z.***, Anand, G. S., and Ge, R. W. (2018) Proapoptotic Cyclic Peptide BC71 Targets Cell-Surface GRP78 and Functions as an Anticancer Therapeutic in Mice. *Ebiomedicine* **33**, 22-32
43. Luo, X. L., Yang, D., Wu, W. J., Long, F., Xiao, C. X., Qin, M., Law, B. Y., Suguro, R., Xu, X., Qu, L. F., Liu, X. H., and **Zhu, Y. Z.*** (2018) Critical role of histone demethylase Jumonji domain-containing protein 3 in the regulation of neointima formation following vascular injury. *Cardiovascular research* **114**, 1894-1906
44. Gu, J. F., Wu, W. J., Huang, M. W., Long, F., Liu, X. H., and **Zhu, Y. Z.*** (2018) Application of High-Performance Liquid Chromatography Coupled with Linear Ion Trap Quadrupole Orbitrap Mass Spectrometry for Qualitative and Quantitative Assessment of Shejin-Liyan Granule Supplements. *Molecules* **23**
45. **Zhu, Y. Z.***, Wu, W. J., Zhu, Q., and Liu, X. H. (2018) Discovery of Leonuri and therapeutical applications: From bench to bedside. *Pharmacol Therapeut* **188**, 26-35
46. Wu, J., Wang, Z. J., Guo, W., and **Zhu, Y. Z.*** (2018) STAT3 Regulation of Cystathionine gamma-Lyase Confers Promising Therapy of Anthracycline Cardiomyopathy to an Endogenous Hydrogen Sulfide Donor S-Propargyl-Cysteine. *Journal of the American College of Cardiology* **72**, C81-C81

47. Suguro, R., Chen, S. Y., Yang, D., Yang, Z. Y., Miao, L., Wu, W. J., Zeng, W., Liu, X. H., and **Zhu, Y. Z.*** (2018) Anti-hypercholesterolemic Effects and a Good Safety Profile of SCM-198 in Animals: From ApoE Knockout Mice to Rhesus Monkeys. *Front Pharmacol* **9**
48. Chang, L. L., Tran, B. H., Xiong, Y., Mao, Y. C., and **Zhu, Y. Z.*** (2018) ZYZ-803 mitigates endoplasmic reticulum stress-related necroptosis after acute myocardial infarction through down-regulating RIP3-CaMKII signaling pathway. *Journal of the American College of Cardiology* **72**, C73-C73
49. Rose, P., Moore, P. K., and **Zhu, Y. Z.*** (2017) H2S biosynthesis and catabolism: new insights from molecular studies. *Cell Mol Life Sci* **74**, 1391-1412
50. Tan, B., Jin, S., Sun, J. P., Gu, Z. K., Sun, X. T., Zhu, Y. C., Huo, K. K., Cao, Z. L., Yang, P., Xin, X. M., Liu, X. H., Pan, L. L., Qiu, F. R., Jiang, J., Jia, Y. Q., Ye, F. Y., Xie, Y., and **Zhu, Y. Z.*** (2017) New method for quantification of gasotransmitter hydrogen sulfide in biological matrices by LC-MS/MS. *Scientific reports* **7**
51. Zhang, Q. Y., Wang, Z. J., Sun, D. M., Wang, Y., Xu, P., Wu, W. J., Liu, X. H., and **Zhu, Y. Z.*** (2017) Novel Therapeutic Effects of Leonurine On Ischemic Stroke: New Mechanisms of BBB Integrity. *Oxidative medicine and cellular longevity* **2017**
52. Wu, A. G., Zeng, W., Wong, V. K. W., **Zhu, Y. Z.**, Lo, A. C. Y., Liu, L., and Law, B. Y. K. (2017) Hederagenin and alpha-hederin promote degradation of proteins in neurodegenerative diseases and improve motor deficits in MPTP-mice. *Pharmacol Res* **115**, 25-44
53. Pan, L. L., Qin, M., Liu, X. H., and **Zhu, Y. Z.*** (2017) The Role of Hydrogen Sulfide on Cardiovascular Homeostasis: An Overview with Update on Immunomodulation. *Front Pharmacol* **8**
54. Zhang, Z. H., Liu, L., Cao, S. S., **Zhu, Y. Z.***, and Mei, Q. B. (2017) Gene delivery of TIPE2 inhibits breast cancer development and metastasis via CD8(+) T and NK cell-mediated antitumor responses. *Mol Immunol* **85**, 230-237
55. Wang, M. J., Xin, H., Tang, W. B., Li, Y. M., Zhang, Z. Y., Fan, L. L., Miao, L., Tan, B., Wang, X. L., and **Zhu, Y. Z.*** (2017) AMPK Serves as a Therapeutic Target Against Anemia of Inflammation. *Antioxid Redox Sign* **27**, 251-268
56. Yang, D., Xiao, C. X., Su, Z. H., Huang, M. W., Qin, M., Wu, W. J., Jia, W. W., **Zhu, Y. Z.***, Hu, J. F., and Liu, X. H. (2017) (-)-7(S)-hydroxymatairesinol protects against tumor necrosis factor-alpha-amediated inflammation response in endothelial cells by blocking the MAPK/NF-kappa B and activating Nrf2/HO-1. *Phytomedicine* **32**, 15-23
57. Luo, S. S., Hieu, T. B., Ma, F. F., Yu, Y., Cao, Z. L., Wang, M. J., Wu, W. J., Mao, Y. C., Rose, P., Law, B. Y. K., and **Zhu, Y. Z.*** (2017) ZYZ-168 alleviates cardiac fibrosis after myocardial infarction through inhibition of ERK1/2-dependent ROCK1 activation. *Scientific reports* **7**
58. Xu, P., Huang, M. W., Xiao, C. X., Long, F., Wang, Y., Liu, S. Y., Jia, W. W., Wu, W. J., Yang, D., Hu, J. F., Liu, X. H., and **Zhu, Y. Z.*** (2017) Matairesinol Suppresses Neuroinflammation and Migration Associated with Src and ERK1/2-NF-kappa B Pathway in Activating BV2 Microglia. *Neurochemical*

research **42**, 2850-2860

59. Wang, Z. J., Wu, J., Guo, W., and **Zhu, Y. Z.*** (2017) Atherosclerosis and the Hydrogen Sulfide Signaling Pathway - Therapeutic Approaches to Disease Prevention. *Cell Physiol Biochem* **42**, 859-875
60. Guo, W., Zhu, H. K., Wang, Z. J., Chen, J. A., Wu, J., **Zhu, Y. Z.***, and Gu, X. F. (2017) Novel rhynchophylline analogues as microvascular relaxation agents for the treatment of microvascular dysfunction caused by diabetes. *Eur J Med Chem* **139**, 657-664
61. Wang, M. J., Tang, W. B., and **Zhu, Y. Z.*** (2017) An Update on AMPK in Hydrogen Sulfide Pharmacology. *Front Pharmacol* **8**
62. Pan, L. L., Xu, P., Luo, X. L., Wang, L. J., Liu, S. Y., **Zhu, Y. Z.***, Hu, J. F., and Liu, X. H. (2017) Shizukaol B, an active sesquiterpene from Chloranthus henryi, attenuates LPS-induced inflammatory responses in BV2 microglial cells. *Biomed Pharmacother* **88**, 878-884
63. Wang, Y., Zhong, L. J., Liu, X. H., and **Zhu, Y. Z.*** (2017) ZYZ-772 Prevents Cardiomyocyte Injury by Suppressing Nox4-Derived ROS Production and Apoptosis. *Molecules* **22**
64. Wang, Y., Zhang, Q. Y., Zhong, L. J., Lin, M. S., Luo, X. L., Liu, S. Y., Xu, P., Liu, X. H., and **Zhu, Y. Z.*** (2017) Apoptotic Protease Activating Factor-1 Inhibitor Mitigates Myocardial Ischemia Injury via Disturbing Procaspase-9 Recruitment by Apaf-1. *Oxidative medicine and cellular longevity* **2017**
65. Chu, H. W., Sun, P., Yin, J. H., Liu, G. M., Wang, Y. W., Zhao, P. Y., **Zhu, Y. Z.**, Yang, X. H., Zheng, T. Z., Zhou, X. Z., Jin, W. L., and Sun, C. K. (2017) Integrated network analysis reveals potentially novel molecular mechanisms and therapeutic targets of refractory epilepsies. *Plos One* **12**
66. Rao, K. S. J., Perry, G., **Zhu, Y. Z.**, Hegde, M. L., von Zglinicki, T., and Perez-Pinzon, M. A. (2017) Molecular Pathways in Normal Aging and Neurodegeneration: Mechanisms and Therapeutics. *J Alzheimers Dis* **60**, S1-S2
67. Xia, Y., **Zhu, Y. Z.**, and Xu, C. J. (2017) Hydrogen sulfide prevents postoperative adhesion in a rat uterine horn model. *Taiwan J Obstet Gyne* **56**, 46-50
68. Wu, J., Wang, Z. J., Guo, W., and **Zhu, Y. Z.*** (2017) Gp130-mediated STAT3 activation by S-propargyl-cysteine, an endogenous hydrogen sulfide initiator, prevents doxorubicin-induced cardiotoxicity. *Biochem Pharmacol* **139**, 122-122
69. Wu, J., Guo, W., Wang, Z. J., and **Zhu, Y. Z.*** (2017) Gp130-mediated STAT3 Activation by S-propargyl-cysteine, an Endogenous Hydrogen Sulfide Initiator, Prevents Doxorubicin-induced Cardiotoxicity. *Journal of the American College of Cardiology* **69**, S76-S77
70. Wu, J., and **Zhu, Y. Z.*** (2016) Gp130-Mediated STAT3 Activation by S-Propargyl-Cysteine, an Endogenous Hydrogen Sulfide Initiator, Prevents Doxorubicin-Induced Cardiotoxicity. *Journal of the American College of Cardiology* **68**, C53-C53
71. Wu, J., Guo, W., Lin, S. Z., Wang, Z. J., Kan, J. T., Chen, S. Y., and **Zhu, Y. Z.*** (2016) Gp130-mediated STAT3 activation by S-propargyl-cysteine, an endogenous hydrogen sulfide initiator, prevents doxorubicin-induced cardiotoxicity. *Cell death & disease* **7**
72. Xu, J., Zhu, Q., He, W., and **Zhu, Y. Z.*** (2017) SCM-198 protects ischemic brain injury via

accelerating the recovery of brain glucose metabolism, ameliorating the damage of neurons and inhibiting the activation of microglia. *Int J Clin Exp Med* **10**, 12925-12933

73. Guo, W., Wang, Z. J., Wu, J., and **Zhu, Y. Z.*** (2017) Novel Rhynchophylline Analogues as Microvascular Relaxation Agents on the Treatment of Microvascular Dysfunction Leading by Diabetes. *Journal of the American College of Cardiology* **69**, S75-S76
74. Wang, Z. J., Guo, W., Wu, J., and **Zhu, Y. Z.*** (2017) G2, a Hirsutine Analogue, Could Exert Endothelium-dependent Vasodilatory Effects in Vitro and Endothelial Protection in Vivo. *Journal of the American College of Cardiology* **69**, S26-S26
75. Law, B. Y. K., Wu, A. G., Wang, M. J., and **Zhu, Y. Z.*** (2017) Chinese Medicine: A Hope for Neurodegenerative Diseases? *J Alzheimers Dis* **60**, S151-S160
76. Xin, H., Wang, M. J., Tang, W. B., Shen, Z. Q., Miao, L., Wu, W. J., Li, C. Y., Wang, X. L., Xin, X. M., and **Zhu, Y. Z.*** (2016) Hydrogen Sulfide Attenuates Inflammatory Hepcidin by Reducing IL-6 Secretion and Promoting SIRT1-Mediated STAT3 Deacetylation. *Antioxid Redox Sign* **24**, 70-83
77. Hu, Q. X., Wu, D., Ma, F. F., Yang, S., Tan, B., Xin, H., Gu, X. F., Chen, X., Chen, S. Y., Mao, Y. C., and **Zhu, Y. Z.*** (2016) Novel Angiogenic Activity and Molecular Mechanisms of ZYZ-803, a Slow-Releasing Hydrogen Sulfide-Nitric Oxide Hybrid Molecule. *Antioxid Redox Sign* **25**, 498-514
78. Miao, L., Shen, X. Y., Whiteman, M., Xin, H., Shen, Y. Q., Xin, X. M., Moore, P. K., and **Zhu, Y. Z.*** (2016) Hydrogen Sulfide Mitigates Myocardial Infarction via Promotion of Mitochondrial Biogenesis-Dependent M2 Polarization of Macrophages. *Antioxid Redox Sign* **25**, 268-281
79. Wu, W. J., Jia, W. W., Liu, X. H., Pan, L. L., Zhang, Q. Y., Yang, D., Shen, X. Y., Liu, L., and **Zhu, Y. Z.*** (2016) S-propargyl-cysteine attenuates inflammatory response in rheumatoid arthritis by modulating the Nrf2-ARE signaling pathway. *Redox biology* **10**, 157-167
80. Wu, D., Hu, Q. X., Ma, F. F., and **Zhu, Y. Z.*** (2016) Vasorelaxant Effect of a New Hydrogen Sulfide-Nitric Oxide Conjugated Donor in Isolated Rat Aortic Rings through cGMP Pathway. *Oxidative medicine and cellular longevity* **2016**
81. Miao, L., Xin, X. M., Xin, H., Shen, X. Y., and **Zhu, Y. Z.*** (2016) Hydrogen Sulfide Recruits Macrophage Migration by Integrin beta 1-Src-FAK/Pyk2-Rac Pathway in Myocardial Infarction. *Scientific reports* **6**
82. Wu, D., Hu, Q. X., and **Zhu, Y. Z.*** (2016) Therapeutic application of hydrogen sulfide donors: the potential and challenges. *Front Med-Prc* **10**, 18-27
83. Qian, X., Li, X. H., Ma, F. F., Luo, S. S., Ge, R. W., and **Zhu, Y. Z.*** (2016) Novel hydrogen sulfide-releasing compound, S-propargyl-cysteine, prevents STZ-induced diabetic nephropathy. *Biochemical and biophysical research communications* **473**, 931-938
84. Liu, X. H., Zhang, Q. Y., Pan, L. L., Liu, S. Y., Xu, P., Luo, X. L., Zou, S. L., Xin, H., Qu, L. F., and **Zhu, Y. Z.*** (2016) NADPH oxidase 4 contributes to connective tissue growth factor expression through Smad3-dependent signaling pathway. *Free Radical Bio Med* **94**, 174-184
85. Zhou, C., You, Y., Shen, W. X., **Zhu, Y. Z.**, Peng, J., Feng, H. T., Wang, Y., Li, D., Shao, W. W., Li, C. X., Li, W. Z., Xu, J. K., and Shen, X. Y. (2016) Deficiency of sorting nexin 10 prevents bone erosion in

collagen-induced mouse arthritis through promoting NFATc1 degradation. *Ann Rheum Dis* **75**, 1211-1218

86. Wang, M. J., Tang, W. B., Xin, H., and **Zhu, Y. Z.*** (2016) S-Propargyl-Cysteine, a Novel Hydrogen Sulfide Donor, Inhibits Inflammatory Hepcidin and Relieves Anemia of Inflammation by Inhibiting IL-6/STAT3 Pathway. *Plos One* **11**
87. Zhang, Z. H., Liu, L., Liu, C. L., Cao, S. S., **Zhu, Y. Z.***, and Mei, Q. B. (2016) TIPE2 suppresses the tumorigenesis, growth and metastasis of breast cancer via inhibition of the AKT and p38 signaling pathways. *Oncol Rep* **36**, 3311-3316
88. Luo, S. S., Gu, X. F., Ma, F. F., Liu, C. H., Shen, Y. Q., Ge, R. W., and **Zhu, Y. Z.*** (2016) ZYZ451 protects cardiomyocytes from hypoxia-induced apoptosis via enhancing MnSOD and STAT3 interaction. *Free Radical Bio Med* **92**, 1-14
89. Li, W. W., Ma, F. F., Zhang, L. Y., Huang, Y., Li, X. H., Zhang, A. J., Hou, C. L., Zhu, Y. C., and **Zhu, Y. Z.*** (2016) S-Propargyl-cysteine Exerts a Novel Protective Effect on Methionine and Choline Deficient Diet-Induced Fatty Liver via Akt/Nrf2/HO-1 Pathway. *Oxidative medicine and cellular longevity* **2016**
90. Li, D., Xiong, Q. H., Peng, J., Hu, B., Li, W. Z., **Zhu, Y. Z.***, and Shen, X. Y. (2016) Hydrogen Sulfide Up-Regulates the Expression of ATP-Binding Cassette Transporter A1 via Promoting Nuclear Translocation of PPAR alpha. *International journal of molecular sciences* **17**
91. Ma, F. F., Li, W. W., Li, X. H., Tran, B. H., Suguro, R., Guan, R. J., Hou, C. L., Wang, H. J., Zhang, A. J., Zhu, Y. C., and **Zhu, Y. Z.*** (2016) Novel protective effects of pulsed electromagnetic field ischemia/reperfusion injury rats. *Bioscience Rep* **36**
92. Lin, S. Z., Wu, J., Guo, W., and **Zhu, Y. Z.*** (2016) Effects of leonurine on intracerebral haemorrhage by attenuation of perihematomal edema and neuroinflammation via the JNK pathway. *Die Pharmazie* **71**, 644-650
93. Gao, H., Yang, X. H., Gu, X. F., and **Zhu, Y. Z.*** (2016) Synthesis and biological evaluation of the codrug of Leonurine and Aspirin as cardioprotective agents. *Bioorg Med Chem Lett* **26**, 4650-4654
94. Yang, D., Jia, W. W., and **Zhu, Y. Z.*** (2016) Leonurine, a Potential Agent of Traditional Chinese Medicine: Recent Updates and Future Perspectives. *Nat Prod Commun* **11**, 1757-1761
95. Wang, Y., Cao, Y., Zhu, Q., Gu, X. F., and **Zhu, Y. Z.*** (2016) The discovery of a novel inhibitor of apoptotic protease activating factor-1 (Apaf-1) for ischemic heart: synthesis, activity and target identification. *Scientific reports* **6**
96. Zong, H. Y., Ma, F. F., Zhang, L. Y., Lu, H. P., Gong, J. R., Cai, M., Lin, H. D., **Zhu, Y. Z.***, and Hou, C. L. (2016) Hindlimb spasticity after unilateral motor cortex lesion in rats is reduced by contralateral nerve root transfer. *Bioscience Rep* **36**
97. Luo, S. S., and **Zhu, Y. Z.*** (2016) ZYZ-168 alleviates myocardial infarction induced cardiac fibrosis through inhibition of ERK-dependent ROCK1 activation. *Journal of the American College of Cardiology* **68**, C2-C2

98. Shen, Y. Q., Shen, Z. Q., Miao, L., Xin, X. M., Lin, S. Z., Zhu, Y. C., Guo, W., and **Zhu, Y. Z.*** (2015) miRNA-30 Family Inhibition Protects Against Cardiac Ischemic Injury by Regulating Cystathionine-gamma-Lyase Expression. *Antioxid Redox Sign* **22**, 224-240
99. Wu, D., Hu, Q. X., Liu, X. H., Pan, L. L., Xiong, Q. H., and **Zhu, Y. Z.*** (2015) Hydrogen sulfide protects against apoptosis under oxidative stress through SIRT1 pathway in H9c2 cardiomyocytes. *Nitric Oxide-Biol Ch* **46**, 204-212
100. Shen, Y. Q., Shen, Z. Q., Luo, S. S., Guo, W., and **Zhu, Y. Z.*** (2015) The Cardioprotective Effects of Hydrogen Sulfide in Heart Diseases: From Molecular Mechanisms to Therapeutic Potential. *Oxidative medicine and cellular longevity* **2015**
101. Yang, H. B., Mao, Y. C., Tan, B., Luo, S. S., and **Zhu, Y. Z.*** (2015) The protective effects of endogenous hydrogen sulfide modulator, S-propargyl-cysteine, on high glucose-induced apoptosis in cardiomyocytes: A novel mechanism mediated by the activation of Nrf2. *European journal of pharmacology* **761**, 135-143
102. Hong, Z. Y., Yu, S. S., Wang, Z. J., and **Zhu, Y. Z.*** (2015) SCM-198 Ameliorates Cognitive Deficits, Promotes Neuronal Survival and Enhances CREB/BDNF/TrkB Signaling without Affecting A beta Burden in A beta PP/PS1 Mice. *International journal of molecular sciences* **16**, 18544-18563
103. Wang, W., Cheng, J. W., and **Zhu, Y. Z.*** (2015) The JNK Signaling Pathway Is a Novel Molecular Target for S-Propargyl-L-Cysteine, a Naturally-Occurring Garlic Derivatives: Link to Its Anticancer Activity in Pancreatic Cancer In Vitro and In Vivo. *Curr Cancer Drug Tar* **15**, 613-623
104. Wu, T. T., Zhong, L. J., Hong, Z. Y., Li, Y. M., Liu, X. H., Pan, L. L., Xin, H., and **Zhu, Y. Z.*** (2015) The effects of Zanthoxylum bungeanum extract on lipid metabolism induced by sterols. *J Pharmacol Sci* **127**, 251-259
105. Shen, Y., Meng, L. Y., Sun, H. J., **Zhu, Y. Z.***, and Liu, H. R. (2015) Cochinchina Momordica Seed Suppresses Proliferation and Metastasis in Human Lung Cancer Cells by Regulating Multiple Molecular Targets. *Am J Chinese Med* **43**, 149-166
106. Liu, X. H., Wang, X. L., Xin, H., Wu, D., Xin, X. M., Miao, L., Zhang, Q. Y., Zhou, Y., Liu, Q., Zhang, Q., and **Zhu, Y. Z.*** (2015) Induction of Heme Oxygenase-1 by Sodium 9-Hydroxyltanshinone IIA Sulfonate Derivative Contributes to Inhibit LPS-Mediated Inflammatory Response in Macrophages. *Cell Physiol Biochem* **36**, 1316-1330
107. Pan, L. L., Wang, J., Jia, Y. L., Zheng, H. M., Wang, Y., and **Zhu, Y. Z.*** (2015) Asymmetric Synthesis and Evaluation of Danshensu-Cysteine Conjugates as Novel Potential Anti-Apoptotic Drug Candidates. *International journal of molecular sciences* **16**, 628-644
108. Zhu, K., Yang, S. N., Ma, F. F., Gu, X. F., Zhu, Y. C., and **Zhu, Y. Z.*** (2015) The Novel Analogue of Hirsutine as an Anti-Hypertension and Vasodilatary Agent Both In Vitro and In Vivo. *Plos One* **10**
109. Tran, B. H., Huang, C. R., Zhang, Q. Y., Liu, X., Lin, S. Z., Liu, H. R., Wang, S. J., and **Zhu, Y. Z.*** (2015) Cardioprotective effects and pharmacokinetic properties of a controlled release formulation of a novel hydrogen sulfide donor in rats with acute myocardial infarction. *Bioscience Rep* **35**

110. Ma, G., Zhang, L., Zhang, P., Bao, X. F., Zhou, N., Shi, Q. L., Zheng, Y. T., Liu, H. R., Bu, F. J., Zhang, Y., Huang, W. J., Wang, F., **Zhu, Y. Z.***, and Cai, W. M. (2015) Physicochemical characteristics and gastrointestinal absorption behaviors of S-propargyl-cysteine, a potential new drug candidate for cardiovascular protection and antitumor treatment. *Xenobiotica* **45**, 322-334
111. Luo, S. S., Liu, C. H., Shen, Y. Q., Ma, L. M., Gao, H., Gu, X. F., and **Zhu, Y. Z.*** (2015) Leonurine-SPRC conjugate protects rats from myocardial infarction by reducing mitochondrial ROS through the STAT3-MnSOD pathway. *Nitric Oxide-Biol Ch* **47**, S20-S21
112. Wen, Y. D., and **Zhu, Y. Z.*** (2015) The Pharmacological Effects of S-Propargyl-Cysteine, a Novel Endogenous H2S-Producing Compound. *Handb Exp Pharmacol* **230**, 325-336
113. **Zhu, Y. Z.*** (2015) Role of hydrogen sulfide in myocardial infarction via immue response of macrophages. *J Immunol* **194**
114. Shen, Y. Q., Miao, L., Xin, X. M., Lin, S. Z., Guo, W., and **Zhu, Y. Z.*** (2014) miRNA-30 family inhibition protects against cardiac ischemic injury by regulating cystathionine-gamma-lyase expression. *Nitric Oxide-Biol Ch* **39**, S19-S19
115. Kan, J. T., Guo, W., Huang, C. R., Bao, G. Z., Zhu, Y. C., and **Zhu, Y. Z.*** (2014) S-Propargyl-Cysteine, a Novel Water-Soluble Modulator of Endogenous Hydrogen Sulfide, Promotes Angiogenesis Through Activation of Signal Transducer and Activator of Transcription 3. *Antioxid Redox Sign* **20**, 2303-2316
116. Hong, Z. Y., Shi, X. R., Zhu, K., Wu, T. T., and **Zhu, Y. Z.*** (2014) SCM-198 inhibits microglial overactivation and attenuates A beta(1-40)-induced cognitive impairments in rats via JNK and NE-kappa B pathways. *J Neuroinflamm* **11**
117. Ge, S. N., Zhao, M. M., Wu, D. D., Chen, Y., Wang, Y., Zhu, J. H., Cai, W. J., **Zhu, Y. Z.***, and Zhu, Y. C. (2014) Hydrogen Sulfide Targets EGFR Cys797/Cys798 Residues to Induce Na+/K+-ATPase Endocytosis and Inhibition in Renal Tubular Epithelial Cells and Increase Sodium Excretion in Chronic Salt-Loaded Rats. *Antioxid Redox Sign* **21**, 2061-2082
118. Xin, H., Wang, K., Hu, G., Xie, F. B., Ouyang, K. D., Tang, X. Z., Wang, M. J., Wen, D. Y., **Zhu, Y. Z.***, and Qin, X. R. (2014) Establishment and Characterization of 7 Novel Hepatocellular Carcinoma Cell Lines from Patient-Derived Tumor Xenografts. *Plos One* **9**
119. Zhu, Q., Zhang, J. L., Yang, P., Tan, B., Liu, X. H., Zheng, Y. T., Cai, W. M., and **Zhu, Y. Z.*** (2014) Characterization of Metabolites of Leonurine (SCM-198) in Rats after Oral Administration by Liquid Chromatography/Tandem Mass Spectrometry and NMR Spectrometry. *Sci World J*
120. Hao, C. N., Huang, J. J., Shi, Y. Q., Cheng, X. W., Li, H. Y., Zhou, L., Guo, X. G., Li, R. L., Lu, W., **Zhu, Y. Z.***, and Duan, J. L. (2014) Pulsed electromagnetic field improves cardiac function in response to myocardial infarction. *Am J Transl Res* **6**, 281-290
121. Pan, L. L., Wang, X. L., Wang, X. L., and **Zhu, Y. Z.*** (2014) Sodium Hydrosulfide Prevents Myocardial Dysfunction through Modulation of Extracellular Matrix Accumulation and Vascular Density. *International journal of molecular sciences* **15**, 23212-23226
122. Xu, H. N., Shen, Z. X., Xiao, J., Yang, Y., Huang, W. D., Zhou, Z. M., Shen, J. N., **Zhu, Y. Z.***, Liu, X. Y.,

and Chu, L. (2014) Acetylcholinesterase overexpression mediated by oncolytic adenovirus exhibited potent anti-tumor effect. *Bmc Cancer* **14**

123. Yang, Z. Y., Kan, J. T., Cheng, Z. Y., Wang, X. L., **Zhu, Y. Z.***, and Guo, W. (2014) Daphnoretin-induced apoptosis in HeLa cells: a possible mitochondria-dependent pathway. *Cytotechnology* **66**, 51-61
124. Gu, X. F., Zhu, H. K., Yang, S. N., Zhu, Y. C., and **Zhu, Y. Z.*** (2014) Development of a highly selective H2S fluorescent probe and its application to evaluate CSE inhibitors. *Rsc Adv* **4**, 50097-50101
125. Liang, Y. H., Shen, Y. Q., Guo, W., and **Zhu, Y. Z.*** (2014) SPRC protects hypoxia and re-oxygenation injury by improving rat cardiac contractile function and intracellular calcium handling. *Nitric Oxide-Biol Ch* **41**, 113-119
126. Tan, B., Cai, W. M., Zhang, J. L., Zhou, N., Ma, G., Yang, P., Zhu, Q., and **Zhu, Y. Z.*** (2014) Identification of UDP-glucuronosyltransferase isoforms responsible for leonurine glucuronidation in human liver and intestinal microsomes. *Xenobiotica* **44**, 775-784
127. Xin, X. M., Li, L., Miao, L., Zhang, Q. Y., and **Zhu, Y. Z.*** (2014) S-propargyl-cysteine (ZYZ-802), a novel water-soluble donor of endogenous hydrogen sulfide, attenuates impairment against cerebral ischemia-reperfusion injury in rats. *Nitric Oxide-Biol Ch* **39**, S47-S48
128. Luo, S. S., Gu, X. F., and **Zhu, Y. Z.*** (2014) SPRC-leonurine conjugate alleviates ischemia induced cardiac fibrosis through ROS-Stat3 pathway. *Nitric Oxide-Biol Ch* **39**, S46-S46
129. **Zhu, Y. Z.*** (2014) Novel effect of endogenous H2S donor, ZYZ-802 on heart and brain. *Nitric Oxide-Biol Ch* **39**, S9-S9
130. Miao, L., Xin, H., Xin, X. M., and **Zhu, Y. Z.*** (2014) Hydrogen sulfide and SPRC mitigate infarct of myocardial infarction via governing migration and infilitration of macrophages. *Nitric Oxide-Biol Ch* **39**, S18-S18
131. Tran, B., Wang, S. J., and **Zhu, Y. Z.*** (2014) Determination pharmacokinetic properties and cardioprotective effects of a novel hydrogen sulfide agent - Controlled release formulation of S-propargyl-cysteine on acute myocardial infarction rats. *Nitric Oxide-Biol Ch* **39**, S19-S19
132. Xin, H., Wang, M. J., and **Zhu, Y. Z.*** (2014) H2S down-regulates expression of hepcidin in response to inflammation via inhibition of IL-6/STAT3 and activin B/SMAD1/5/8 pathway. *Nitric Oxide-Biol Ch* **39**, S29-S29
133. Dan, W., Hu, Q. X., and **Zhu, Y. Z.*** (2014) S-Propargyl-cysteine (SPRC) diminishes mitochondrial dysfunctions in heart failure. *Journal of the American College of Cardiology* **64**, C66-C66
134. Hu, Q. X., Wu, D., Gu, X. F., and **Zhu, Y. Z.*** (2014) A novel hydrogen sulfide-nitric oxide-releasing hybrid (HSNO) in stimulation of angiogenesis: new insights into the biology of hydrogen sulfide and nitric oxide. *Journal of the American College of Cardiology* **64**, C239-C239
135. Chu, H., Zhou, X., Liu, G., Lv, M., Wang, Y., Liu, L., Li, X., Sun, P., **Zhu, Y. Z.***, and Sun, C. (2014) Network-based detection of disease modules and potential drug targets in intractable epilepsy. In *2014 8th International Conference on Systems Biology (ISB)* pp. 132-140

136. Wen, Y. D., Wang, H., Kho, S. H., Rinkiko, S., Sheng, X., Shen, H. M., and **Zhu, Y. Z.*** (2013) Hydrogen Sulfide Protects HUVECs against Hydrogen Peroxide Induced Mitochondrial Dysfunction and Oxidative Stress. *Plos One* **8**
137. Tao, B. B., Liu, S. Y., Zhang, C. C., Fu, W., Cai, W. J., Wang, Y., Shen, Q., Wang, M. J., Chen, Y., Zhang, L. J., **Zhu, Y. Z.***, and Zhu, Y. C. (2013) VEGFR2 Functions As an H2S-Targeting Receptor Protein Kinase with Its Novel Cys1045-Cys1024 Disulfide Bond Serving As a Specific Molecular Switch for Hydrogen Sulfide Actions in Vascular Endothelial Cells. *Antioxid Redox Sign* **19**, 448-464
138. Liu, X. H., Pan, L. L., Deng, H. Y., Xiong, Q. H., Wu, D., Huang, G. Y., Gong, Q. H., and **Zhu, Y. Z.*** (2013) Leonurine (SCM-198) attenuates myocardial fibrotic response via inhibition of NADPH oxidase 4. *Free Radical Bio Med* **54**, 93-104
139. Guo, W., Cheng, Z. Y., and **Zhu, Y. Z.*** (2013) Hydrogen sulfide and translational medicine. *Acta Pharmacol Sin* **34**, 1284-1291
140. Pan, L. L., Liu, X. H., Shen, Y. Q., Wang, N. Z., Xu, J., Wu, D., Xiong, Q. H., Deng, H. Y., Huang, G. Y., and **Zhu, Y. Z.*** (2013) Inhibition of NADPH oxidase 4-related signaling by sodium hydrosulfide attenuates myocardial fibrotic response. *International journal of cardiology* **168**, 3770-3778
141. Shen, Y. Q., Guo, W., Wang, Z. J., Zhang, Y. C., Zhong, L. J., and **Zhu, Y. Z.*** (2013) Protective Effects of Hydrogen Sulfide in Hypoxic Human Umbilical Vein Endothelial Cells: A Possible Mitochondria-Dependent Pathway. *International journal of molecular sciences* **14**, 13093-13108
142. Xin, H., Kong, Y., Jiang, X. X., Wang, K., Qin, X. R., Miao, Z. H., **Zhu, Y. Z.***, and Tan, W. F. (2013) Multi-Drug-Resistant Cells Enriched From Chronic Myeloid Leukemia Cells by Doxorubicin Possess Tumor-Initiating-Cell Properties. *J Pharmacol Sci* **122**, 299-304
143. Pan, L. L., Liu, X. H., Jia, Y. L., Wu, D., Xiong, Q. H., Gong, Q. H., Wang, Y., and **Zhu, Y. Z.*** (2013) A novel compound derived from danshensu inhibits apoptosis via upregulation of heme oxygenase-1 expression in SH-SY5Y cells. *Bba-Gen Subjects* **1830**, 2861-2871
144. Seetapun, S., Yaoling, J., Wang, Y., and **Zhu, Y. Z.*** (2013) Neuroprotective effect of Danshensu derivatives as anti-ischaemia agents on SH-SY5Y cells and rat brain. *Bioscience Rep* **33**, 677-688
145. Liu, C. H., Guo, W., Maerz, S., Gu, X. F., and **Zhu, Y. Z.*** (2013) 3,5-Dimethoxy-4-(3-(2-carbonyl-ethyldisulfanyl)-propionyl)-benzoic acid 4-guanidino-butyl ester: A novel twin drug that prevents primary cardiac myocytes from hypoxia-induced apoptosis. *European journal of pharmacology* **700**, 118-126
146. Sun, H. J., Meng, L. Y., Shen, Y., **Zhu, Y. Z.***, and Liu, H. R. (2013) S-benzyl-cysteine-mediated Cell Cycle Arrest and Apoptosis Involving Activation of Mitochondrial-dependent Caspase Cascade through the p53 Pathway in Human Gastric Cancer SGC-7901 Cells. *Asian Pac J Cancer P* **14**, 6379-6384
147. Wang, M. W., Ye, R. D., and **Zhu, Y. Z.*** (2013) Pharmacology in China: a brief overview. *Trends Pharmacol Sci* **34**, 532-533
148. Guo, W., Cui, W. G., and **Zhu, Y. Z.*** (2013) Therapeutic approach in endothelial dysfunction by a

novel implantable endogenous hydrogen sulfide loaded electrospun fibrous membranes. *Nitric Oxide-Biol Ch* **31**, S32-S32

149. Hong, Z. Y., Sheng, H. X., Gong, Q. H., Zhu, Q., and **Zhu, Y. Z.*** (2013) S-propargyl-cysteine (SPRC) attenuates cognitive impairment in APP/PSI mice and protects neurons against glial overactivation induced by A beta(1-40) via modulation of cystathionine-beta-synthase. *Nitric Oxide-Biol Ch* **31**, S42-S43
150. Tao, B. B., Liu, S. Y., Zhang, C. C., Fu, W., Cai, W. J., Wang, Y., Shen, Q., Wang, M. J., Chen, Y., Zhang, L. J., **Zhu, Y. Z.***, and Zhu, Y. C. (2013) Identification of the molecular switch and the receptor for H2S to promote angiogenesis. *Nitric Oxide-Biol Ch* **31**, S31-S32
151. **Zhu, Y. Z.*** (2013) Therapeutic modulators of endogenous H2S synthesis: Bench to bedside. *Nitric Oxide-Biol Ch* **31**, S19-S19
152. Liu, X. H., Pan, L. L., Wang, X. L., Gong, Q. H., and **Zhu, Y. Z.*** (2012) Leonurine protects against tumor necrosis factor-alpha-mediated inflammation in human umbilical vein endothelial cells. *Atherosclerosis* **222**, 34-42
153. Guo, W., Kan, J. T., Cheng, Z. Y., Chen, J. F., Shen, Y. Q., Xu, J., Wu, D., and **Zhu, Y. Z.*** (2012) Hydrogen Sulfide as an Endogenous Modulator in Mitochondria and Mitochondria Dysfunction. *Oxidative medicine and cellular longevity* **2012**
154. Zhang, J. G., Modi, Y., Yarovinsky, T., Yu, J., Collinge, M., Kyriakides, T., **Zhu, Y. Z.**, Sessa, W. C., Pardi, R., and Bender, J. R. (2012) Macrophage beta(2) Integrin-Mediated, HuR-Dependent Stabilization of Angiogenic Factor-Encoding mRNAs in Inflammatory Angiogenesis. *Am J Pathol* **180**, 1751-1760
155. Zhang, Y. F., Guo, W., Wen, Y. D., Xiong, Q. H., Liu, H. R., Wu, J., Zou, Y. Z., and **Zhu, Y. Z.*** (2012) SCM-198 attenuates early atherosclerotic lesions in hypercholesterolemic rabbits via modulation of the inflammatory and oxidative stress pathways. *Atherosclerosis* **224**, 43-50
156. Jia, Y. L., Dong, X. Y., Zhou, P. F., Liu, X. H., Pan, L. L., Xin, H., **Zhu, Y. Z.***, and Wang, Y. (2012) The synthesis and biological evaluation of novel Danshensu-cysteine analog conjugates as cardiovascular-protective agents. *Eur J Med Chem* **55**, 176-187
157. Sidhapuriwala, J. N., Hegde, A., Ang, A. D., **Zhu, Y. Z.***, and Bhatia, M. (2012) Effects of S-Propargyl-Cysteine (SPRC) in Caerulein-Induced Acute Pancreatitis in Mice. *Plos One* **7**
158. Liu, X. H., Pan, L. L., Yang, H. B., Gong, Q. H., and **Zhu, Y. Z.*** (2012) Leonurine attenuates lipopolysaccharide-induced inflammatory responses in human endothelial cells: Involvement of reactive oxygen species and NF-kappa B pathways. *European journal of pharmacology* **680**, 108-114
159. Pan, L. L., Liu, X. H., Zheng, H. M., Yang, H. B., Gong, Q. H., and **Zhu, Y. Z.*** (2012) S-propargyl-cysteine, a novel hydrogen sulfide-modulated agent, attenuated tumor necrosis factor-alpha-induced inflammatory signaling and dysfunction in endothelial cells. *International journal of cardiology* **155**, 327-332
160. Liu, X. H., Pan, L. L., and **Zhu, Y. Z.*** (2012) Active chemical compounds of traditional Chinese

medicine Herba Leonuri: implications for cardiovascular diseases. *Clin Exp Pharmacol P* **39**, 274-282

161. Liu, H. R., Meng, L. Y., Lin, Z. Y., Shen, Y., Yu, Y. Q., and **Zhu, Y. Z.*** (2012) Cochinchina Momordica Seed Extract Induces Apoptosis and Cell Cycle Arrest in Human Gastric Cancer Cells Via PARP and p53 Signal Pathways. *Nutr Cancer* **64**, 1070-1077
162. Huang, H., Xin, H., Liu, X. H., Xu, Y. J., Wen, D. Y., Zhang, Y. H., and **Zhu, Y. Z.*** (2012) Novel anti-diabetic effect of SCM-198 via inhibiting the hepatic NF-kappa B pathway in db/db mice. *Bioscience Rep* **32**, 185-195
163. Zheng, Y. T., Zhu, J. H., Ma, G., Zhu, Q., Yang, P., Tan, B., Zhang, J. L., Shen, H. X., Xu, J. L., **Zhu, Y. Z.***, and Cai, W. M. (2012) Preclinical assessment of the distribution, metabolism, and excretion of S-propargyl-cysteine, a novel H2S donor, in Sprague-Dawley rats. *Acta Pharmacol Sin* **33**, 839-844
164. Zheng, Y. T., Xu, J. L., Ma, G., Zhang, J. L., Zhu, Q., Liu, H. R., Zhang, P., **Zhu, Y. Z.***, and Cai, W. M. (2012) Bioavailability and pharmacokinetics of S-propargyl-L-cysteine, a novel cardioprotective agent, after single and multiple doses in Beagle dogs. *Xenobiotica* **42**, 304-309
165. Zhu, Q., Cai, W. M., Sha, X. Y., Ma, G., Zheng, Y. T., Shi, X. R., and **Zhu, Y. Z.*** (2012) Quantification of leonurine, a novel potential cardiovascular agent, in rat plasma by liquid chromatography-tandem mass spectrometry and its application to pharmacokinetic study in rats. *Biomed Chromatogr* **26**, 518-523
166. Xin, H., Gu, M., Wang, W. W., Huang, S. Y., Li, F. P., Cai, H., **Zhu, Y. Z.***, and Zhang, X. M. (2012) Effects of Leonurine on L-Type Calcium Channel in Rat Ventricular Myocytes. *Biol Pharm Bull* **35**, 1249-1256
167. Shen, Y. Q., and **Zhu, Y. Z.*** (2012) Inhibitors of Mirna-30 Family Protected the Hypoxia-Induced Injury on Cardiac Myocytes Via Increasing the Expression of Cse. *Heart* **98**, E24-E25
168. Kan, J. T., Guo, W., Huang, C. R., and **Zhu, Y. Z.*** (2012) S-Propargyl-Cysteine (SPRC) promoted angiogenesis under both normal and ischemic conditions: Possible STAT3-mediated mechanism. *Nitric Oxide-Biol Ch* **27**, S16-S17
169. Guo, W., Wang, Z. J., Sun, M. T., Kan, J. T., Liu, Z. M., and **Zhu, Y. Z.*** (2012) Antioxidant and heart-protective effect of endogenous hydrogen sulfideon rats with streptozotocin-induced diabetes. *Nitric Oxide-Biol Ch* **27**, S31-S31
170. Huang, C. R., Kan, J. T., Wang, S. J., and **Zhu, Y. Z.*** (2012) Cardioprotective effects of S-propargyl-cysteine controlled release formulation to heart failure rats after myocardial infarction and the possible involved mechanism. *Nitric Oxide-Biol Ch* **27**, S23-S23
171. Shen, Y. Q., and **Zhu, Y. Z.*** (2012) MiRNA-30 regulates the production of endogenous H2S by Cystathionine gamma-lyase (CSE) in primary cardiac myocytes. *Nitric Oxide-Biol Ch* **27**, S37-S37
172. Wen, Y. D., Wang, H., and **Zhu, Y. Z.*** (2012) Protective effects of hydrogen sulfide in the development of atherosclerosis in hyperlipidemic rabbit. *Nitric Oxide-Biol Ch* **27**, S13-S13
173. Huang, C. R., Kan, J. T., Liu, X. H., Wang, S. J., and **Zhu, Y. Z.*** (2012) Cardioprotective Effect of

Controlled Release Sprc to Heart Failure of Rats after Myocardial Infarction and Its Possible Mechanism. *Heart* **98**, E232-E232

174. Kan, J. T., Guo, W., Huang, C. R., and **Zhu, Y. Z.*** (2012) S-Propargyl-Cysteine (Sprc)-Induced Angiogenesis and Stat3-Mediated Mechanisms. *Heart* **98**, E99-E99
175. Pan, L. L., Liu, X. H., Gong, Q. H., Yang, H. B., and **Zhu, Y. Z.*** (2012) Role of cystathionine γ-lyase/hydrogen sulfide pathway in cardiovascular disease: a novel therapeutic strategy? *Antioxid Redox Signal* **17**, 106-118
176. Gu, X. F., Liu, C. H., Zhu, Y. C., and **Zhu, Y. Z.*** (2011) A Boron-dipyrromethene-Based Fluorescent Probe for Colorimetric and Ratiometric Detection of Sulfite. *J Agr Food Chem* **59**, 11935-11939
177. Pan, L. L., Liu, X. H., Gong, Q. H., Wu, D., and **Zhu, Y. Z.*** (2011) Hydrogen Sulfide Attenuated Tumor Necrosis Factor-alpha-Induced Inflammatory Signaling and Dysfunction in Vascular Endothelial Cells. *Plos One* **6**
178. Wang, X. L., Wang, Q., Guo, W., and **Zhu, Y. Z.*** (2011) Hydrogen sulfide attenuates cardiac dysfunction in a rat model of heart failure: a mechanism through cardiac mitochondrial protection. *Bioscience Rep* **31**, 87-98
179. Gong, Q. H., Wang, Q. A., Pan, L. L., Liu, X. H., Xin, H., and **Zhu, Y. Z.*** (2011) S-Propargyl-cysteine, a novel hydrogen sulfide-modulated agent, attenuates lipopolysaccharide-induced spatial learning and memory impairment: Involvement of TNF signaling and NF-kappa B pathway in rats. *Brain Behav Immun* **25**, 110-119
180. Gong, Q. H., Shi, X. R., Hong, Z. Y., Pan, L. L., Liu, X. H., and **Zhu, Y. Z.*** (2011) A New Hope for Neurodegeneration: Possible Role of Hydrogen Sulfide. *J Alzheimers Dis* **24**, 173-182
181. Gu, X. F., Liu, C. H., Zhu, Y. C., and **Zhu, Y. Z.*** (2011) Development of a boron-dipyrromethene-Cu2+ ensemble based colorimetric probe toward hydrogen sulfide in aqueous media. *Tetrahedron Lett* **52**, 5000-5003
182. Pan, L. L., Liu, X. H., Gong, Q. H., and **Zhu, Y. Z.*** (2011) S-Propargyl-cysteine (SPRC) attenuated lipopolysaccharide-induced inflammatory response in H9c2 cells involved in a hydrogen sulfide-dependent mechanism. *Amino Acids* **41**, 205-215
183. Gong, Q. H., Pan, L. L., Liu, X. H., Wang, Q. A., Huang, H., and **Zhu, Y. Z.*** (2011) S-propargyl-cysteine (ZYZ-802), a sulphur-containing amino acid, attenuates beta-amyloid-induced cognitive deficits and pro-inflammatory response: involvement of ERK1/2 and NF-kappa B pathway in rats. *Amino Acids* **40**, 601-610
184. Shi, X. R., Hong, Z. Y., Liu, H. R., Zhang, Y. C., and **Zhu, Y. Z.*** (2011) Neuroprotective effects of SCM198 on 6-hydroxydopamine-induced behavioral deficit in rats and cytotoxicity in neuronal SH-SY5Y cells. *Neurochem Int* **58**, 851-860
185. Liu, C. H., Guo, W., Shi, X. R., Kaium, M. A., Gu, X. F., and **Zhu, Y. Z.*** (2011) Leonurine-cysteine analog conjugates as a new class of multifunctional anti-myocardial ischemia agent. *Eur J Med Chem* **46**, 3996-4009
186. Wu, L. X., Gu, X. F., Zhu, Y. C., and **Zhu, Y. Z.*** (2011) Protective effects of novel single compound,

Hirsutine on hypoxic neonatal rat cardiomyocytes. *European journal of pharmacology* **650**, 290-297

187. Wang, H., Spiess, J., Wong, P. T. H., and **Zhu, Y. Z.*** (2011) Blockade of CRF1 and CCK2 receptors attenuated the elevated anxiety-like behavior induced by immobilization stress. *Pharmacol Biochem Be* **98**, 362-368
188. Maerz, S., Liu, C. H., Guo, W., and **Zhu, Y. Z.*** (2011) Anti-ischaemic effects of bilobalide on neonatal rat cardiomyocytes and the involvement of the platelet-activating factor receptor. *Bioscience Rep* **31**, 439-447
189. Zheng, Y. T., Liu, H. R., Ma, G., Yang, P., Zhang, L., Gu, Y., Zhu, Q., Shao, T. F., Zhang, P., **Zhu, Y. Z.***, and Cai, W. M. (2011) Determination of S-propargyl-cysteine in rat plasma by mixed-mode reversed-phase and cation-exchange HPLC-MS/MS method and its application to pharmacokinetic studies. *J Pharmaceut Biomed* **54**, 1187-1191
190. Bhatia, M., Hegde, A., Sidhapuriwala, J., and **Zhu, Y. Z.*** (2011) S-Propargyl-Cysteine Protects Mice against Caerulein-Induced Acute Pancreatitis. *Inflamm Res* **60**, 278-279
191. Gu, X., and **Zhu, Y. Z.*** (2011) Therapeutic applications of organosulfur compounds as novel hydrogen sulfide donors and/or mediators. *Expert review of clinical pharmacology* **4**, 123-133
192. Ma, K., Liu, Y., Zhu, Q., Liu, C. H., Duan, J. L., Tan, B. K., and **Zhu, Y. Z.*** (2011) H2S donor, S-propargyl-cysteine, increases CSE in SGC-7901 and cancer-induced mice: evidence for a novel anti-cancer effect of endogenous H2S? *Plos One* **6**, e20525
193. Wang, Q., Wang, X. L., Liu, H. R., Rose, P., and **Zhu, Y. Z.*** (2010) Protective Effects of Cysteine Analogues on Acute Myocardial Ischemia: Novel Modulators of Endogenous H2S Production. *Antioxid Redox Sign* **12**, 1155-1165
194. Loh, K. P., Qi, J., Tan, B. K. H., Liu, X. H., Wei, B. G., and **Zhu, Y. Z.*** (2010) Leonurine Protects Middle Cerebral Artery Occluded Rats Through Antioxidant Effect and Regulation of Mitochondrial Function. *Stroke* **41**, 2661-2668
195. Qi, J., Hong, Z. Y., Xin, H., and **Zhu, Y. Z.*** (2010) Neuroprotective Effects of Leonurine on Ischemia/Reperfusion-Induced Mitochondrial Dysfunctions in Rat Cerebral Cortex. *Biol Pharm Bull* **33**, 1958-1964
196. Gong, Q. H., Wang, Q., Pan, L. L., Liu, X. H., Huang, H., and **Zhu, Y. Z.*** (2010) Hydrogen sulfide attenuates lipopolysaccharide-induced cognitive impairment: A pro-inflammatory pathway in rats. *Pharmacol Biochem Be* **96**, 52-58
197. Zhong, H., Xin, H., Wu, L. X., and **Zhu, Y. Z.*** (2010) Salidroside Attenuates Apoptosis in Ischemic Cardiomyocytes: a Mechanism Through a Mitochondria-Dependent Pathway. *J Pharmacol Sci* **114**, 399-408
198. Liu, X. H., Pan, L. L., Zhuo, Y., Gong, Q. H., Rose, P., and **Zhu, Y. Z.*** (2010) Hypoxia-Inducible Factor-1 alpha Is Involved in the Pro-angiogenic Effect of Hydrogen Sulfide under Hypoxic Stress. *Biol Pharm Bull* **33**, 1550-1554
199. Liu, X. H., Pan, L. L., Gong, Q. H., and **Zhu, Y. Z.*** (2010) Leonurine (SCM-198) improves cardiac

recovery in rat during chronic infarction. *European journal of pharmacology* **649**, 236-241

200. Liu, X. H., Pan, L. L., Chen, P. F., and **Zhu, Y. Z.*** (2010) Leonurine improves ischemia-induced myocardial injury through antioxidative activity. *Phytomedicine* **17**, 753-759
201. Liu, X. H., Pan, L. L., Gong, Q. H., and **Zhu, Y. Z.*** (2010) Antiapoptotic Effect of Novel Compound from Herba leonuri- Leonurine (SCM-198): A Mechanism Through Inhibition of Mitochondria Dysfunction in H9c2 Cells. *Curr Pharm Biotechno* **11**, 895-905
202. Zhu, Y. H., Lin, Y. X., **Zhu, Y. Z.**, Lu, J., Maguire, J. A., and Hosmane, N. S. (2010) Boron Drug Delivery via Encapsulated Magnetic Nanocomposites: A New Approach for BNCT in Cancer Treatment. *J Nanomater* **2010**
203. Liu, C. H., Gu, X. F., and **Zhu, Y. Z.*** (2010) Synthesis and biological evaluation of novel leonurine-SPRC conjugate as cardioprotective agents. *Bioorg Med Chem Lett* **20**, 6942-6946
204. Wang, Q., Liu, H. R., Mu, Q., Rose, P., and **Zhu, Y. Z.*** (2009) S-propargyl-cysteine Protects Both Adult Rat Hearts and Neonatal Cardiomyocytes From Ischemia/Hypoxia Injury: The Contribution of the Hydrogen Sulfide-Mediated Pathway. *Journal of cardiovascular pharmacology* **54**, 139-146
205. Xin, H., Liu, X. H., and **Zhu, Y. Z.*** (2009) Herba leonurine attenuates doxorubicin-induced apoptosis in H9c2 cardiac muscle cells. *European journal of pharmacology* **612**, 75-79
206. Liu, X. H., Xin, H., Hou, A. J., and **Zhu, Y. Z.*** (2009) Protective Effects of Leonurine in Neonatal Rat Hypoxic Cardiomyocytes and Rat Infarcted Heart. *Clin Exp Pharmacol P* **36**, 696-703
207. Zhuo, Y., Chen, P. F., Zhang, A. Z., Zhong, H., Chen, C. Q., and **Zhu, Y. Z.*** (2009) Cardioprotective Effect of Hydrogen Sulfide in Ischemic Reperfusion Experimental Rats and Its Influence on Expression of Survivin Gene. *Biol Pharm Bull* **32**, 1406-1410
208. Dong, C. N., Wang, Y., and **Zhu, Y. Z.*** (2009) Asymmetric synthesis and biological evaluation of Danshensu derivatives as anti-myocardial ischemia drug candidates. *Bioorgan Med Chem* **17**, 3499-3507
209. Liu, X. H., Chen, P. F., Pan, L. L., De Silva, R., and **Zhu, Y. Z.*** (2009) 4-Guanidino-n-butyl Syringate (Leonurine, SCM 198) Protects H9c2 Rat Ventricular Cells From Hypoxia-induced Apoptosis. *Journal of cardiovascular pharmacology* **54**, 437-444
210. Sherrin, T., Todorovic, C., Zeyda, T., Tan, C. H., Hon, P. W. T., **Zhu, Y. Z.***, and Spiess, J. (2009) Chronic stimulation of corticotropin-releasing factor receptor 1 enhances the anxiogenic response of the cholecystokinin system. *Mol Psychiatr* **14**, 291-307
211. Loh, K. P., Huang, S. H., Tan, B. K. H., and **Zhu, Y. Z.*** (2009) Cerebral protection of purified Herba Leonuri extract on middle cerebral artery occluded rats. *J Ethnopharmacol* **125**, 337-343
212. Sherrin, T., Todorovic, C., Zeyda, T., Tan, C. H., Wong, P. T. H., **Zhu, Y. Z.***, and Spiess, J. (2009) Chronic stimulation of corticotropin-releasing factor receptor 1 enhances the anxiogenic response of the cholecystokinin system (vol 14, pg 291, 2009). *Mol Psychiatr* **14**, 1143-1143
213. Ji, D. B., Zhu, M. C., Zhu, B., **Zhu, Y. Z.**, Li, C. L., Ye, J., and Zhu, H. B. (2008) Hydroxysafflor yellow A enhances survival of vascular endothelial cells under hypoxia via upregulation of the HIF-1 alpha-VEGF pathway and regulation of Bcl-2/Bax. *Journal of cardiovascular pharmacology* **52**,

191-202

214. Hadyanto, L., Kasiman, S., Santoso, T., Lubis, H. R., Lee, C. N., Siregar, Y., and **Zhu, Y. Z.*** (2008) Effects of angiotensin II type 1 receptor blockade on transforming growth factor-beta1 and myocardial remodeling in rats with developing heart failure. *Eur Heart J* **29**, 607-607
215. Zhang, J. G., Collinge, M., Rao, G. K., **Zhu, Y. Z.***, and Bander, J. R. (2008) Macrophage Beta2 Integrin-mediated, HuR-dependent Stabilization of Angiogenic Factor-encoding mRNAs in Inflammatory Angiogenesis. *Circulation* **118**, S503-S503
216. Chuah, S. C., Moore, P. K., and **Zhu, Y. Z.*** (2007) S-allylcysteine mediates cardioprotection in an acute myocardial infarction rat model via a hydrogen sulfide-mediated pathway. *Am J Physiol-Heart C* **293**, H2693-H2701
217. Chen, C. Q., Xin, H., and **Zhu, Y. Z.*** (2007) Hydrogen sulfide: third gaseous transmitter, but with great pharmacological potential. *Acta Pharmacol Sin* **28**, 1709-1716
218. Shi, Y. X., Chen, Y., **Zhu, Y. Z.**, Huang, G. Y., Moore, P. K., Huang, S. H., Yao, T., and Zhu, Y. C. (2007) Chronic sodium hydrosulfide treatment decreases medial thickening of intramyocardial coronary arterioles, interstitial fibrosis, and ROS production in spontaneously hypertensive rats. *Am J Physiol-Heart C* **293**, H2093-H2100
219. Rajagopalan, N., Pung, Y. F., **Zhu, Y. Z.**, Wong, P. T. H., Kumar, P. P., and Kini, R. M. (2007) beta-Cardiotoxin: a new three-finger toxin from Ophiophagus hannah (king cobra) venom with beta-blocker activity. *Faseb J* **21**, 3685-3695
220. Wang, Y. X., Ding, Y. J., **Zhu, Y. Z.**, Shi, Y., Yao, T., and Zhu, Y. C. (2007) Role of PKC in the novel synergistic action of urotensin II and angiotensin II and in urotensin II-induced vasoconstriction. *Am J Physiol-Heart C* **292**, H348-H359
221. Fu, Y. L., Wang, Z. J., Chen, W. L., Moore, P. K., and **Zhu, Y. Z.*** (2007) Cardioprotective effects of nitric oxide-aspirin in myocardial ischemia-reperfused rats. *Am J Physiol-Heart C* **293**, H1545-H1552
222. Husna, B., On, T., and **Zhu, Y. Z.*** (2007) Effects of purified Salvia miltiorrhiza extract on cardiac vascular smooth muscle hypoxic cells. *J Pharmacol Sci* **104**, 202-211
223. Lim, H., and **Zhu, Y. Z.*** (2007) Angiotensin Receptor Blockers in Chronic Heart Failure: Clinical Implications and Molecular Mechanisms. *Curr Cardiol Rev* **3**, 296-303
224. **Zhu, Y. Z.***, Wang, Z. J., Ho, P., Loke, Y. Y., Zhu, Y. C., Huang, S. H., Tan, C. S., Whiteman, M., Lu, J., and Moore, P. K. (2007) Hydrogen sulfide and its possible roles in myocardial ischemia in experimental rats. *Journal of applied physiology (Bethesda, Md. : 1985)* **102**, 261-268
225. Tian, Q., Zhang, J., Chan, S. Y., Tan, T. M. C., Duan, W., Huang, M., **Zhu, Y. Z.**, Chan, E., Yu, Q., Nie, Y. Q., Ho, P. C. L., Li, Q., Ng, K. Y., Yang, H. Y., Wei, H., Bian, J. S., and Zhou, S. F. (2006) Topotecan is a substrate for multidrug resistance associated protein 4. *Curr Drug Metab* **7**, 105-116
226. Chen, X., Hu, Z. P., Yang, X. X., Huang, M., Gao, Y. H., Tang, W. B., Chan, S. Y., Dai, X. H., Ye, J. X., Ho, P. C. L., Duan, W., Yang, H. Y., **Zhu, Y. Z.***, and Zhou, S. F. (2006) Monitoring of immune responses to a herbal immuno-modulator in patients with advanced colorectal cancer. *Int*

Immunopharmacol **6**, 499-508

227. Zhu, Y. C., **Zhu, Y. Z.***, and Moore, P. K. (2006) The role of urotensin II in cardiovascular and renal physiology and diseases. *Brit J Pharmacol* **148**, 884-901
228. Yang, X. X., Hu, Z. P., Duan, W., **Zhu, Y. Z.***, and Zhou, S. F. (2006) Drug-herb interactions: Eliminating toxicity with hard drug design. *Curr Pharm Design* **12**, 4649-4664
229. Chang, P. N., Mao, J. C., Huang, S. H., Ning, L., Wang, Z. J., On, T., Duan, W., and **Zhu, Y. Z.*** (2006) Analysis of cardioprotective effects using purified Salvia miltiorrhiza extract on isolated rat hearts. *J Pharmacol Sci* **101**, 245-249
230. Hu, Z. P., Yang, X. X., Chan, S. Y., Xu, A. L., Duan, W., **Zhu, Y. Z.**, Sheu, F. S., Boelsterli, U. A., Chan, E., Zhang, Q., Wang, J. C., Ee, P. L. R., Koh, H. L., Huang, M., and Zhou, S. F. (2006) St. John's wort attenuates irinotecan-induced diarrhea via down-regulation of intestinal pro-inflammatory cytokines and inhibition of intestinal epithelial apoptosis. *Toxicol Appl Pharm* **216**, 225-237
231. Chen, G., **Zhu, Y. Z.**, Wang, Y. F., Xu, X. J., and Lu, T. (2006) Determination of Bioactive Constituents in Traditional Chinese Medicines by CE with Electrochemical Detection. *Curr Med Chem* **13**, 2467-2485
232. Chen, G., Zhang, L. Y., and **Zhu, Y. Z.*** (2006) Determination of glycosides and sugars in Moutan Cortex by capillary electrophoresis with electrochemical detection. *J Pharmaceut Biomed* **41**, 129-134
233. Chen, G., Xu, X. J., **Zhu, Y. Z.**, Zhang, L. Y., and Yang, P. Y. (2006) Determination of honokiol and magnolol in Cortex Magnoliae Officinalis by capillary electrophoresis with electrochemical detection. *J Pharmaceut Biomed* **41**, 1479-1484
234. Whiteman, M., Spencer, J. P. E., **Zhu, Y. Z.**, Armstrong, J. S., and Schantz, J. T. (2006) Peroxynitrite-modified collagen-II induces p38/ERK and NF-kappa B-dependent synthesis of prostaglandin E-2 and nitric oxide in chondrogenically differentiated mesenchyrnal progenitor cells. *Osteoarthr Cartilage* **14**, 460-470
235. Yang, X. X., Hu, Z. P., Xu, A. L., Duan, W., **Zhu, Y. Z.**, Huang, M., Sheu, F. S., Zhang, Q., Bian, J. S., Chan, E., Li, X. T., Wang, J. C., and Zhou, S. F. (2006) A mechanistic study on reduced toxicity of irinotecan by coadministered thalidomide, a tumor necrosis factor-alpha inhibitor. *J Pharmacol Exp Ther* **319**, 82-104
236. **Zhu, Y. Z.**, Chong, C. L., Chuah, S. C., Huang, S. H., Nai, H. S., Tong, H. T., Whiteman, M., and Moore, P. K. (2006) Cardioprotective effects of nitroparacetamol and paracetamol in acute phase of myocardial infarction in experimental rats. *Am J Physiol-Heart C* **290**, H517-H524
237. Yeong, S. S., Zhu, Y., Smith, D., Verma, C., Lim, W. G., Tan, B. J., Li, Q. T., Cheung, N. S., Cai, M., **Zhu, Y. Z.**, Zhou, S. F., Tan, S. L., and Duan, W. (2006) The last 10 amino acid residues beyond the hydrophobic motif are critical for the catalytic competence and function of protein kinase C alpha. *Journal of Biological Chemistry* **281**, 30768-30781
238. Loh, K. P., Low, L. S., Wong, W. H., Zhou, S., Huang, S. H., De Silva, R., Duan, W., Chou, W. H., and **Zhu, Y. Z.*** (2006) A comparison study of cerebral protection using Ginkgo biloba extract and

Losartan on stroked rats. *Neurosci Lett* **398**, 28-33

239. Zhu, Y. M., Smith, D., Verma, C., Lim, W. G., Tan, B. J., Armstrong, J. S., Zhou, S. F., Chan, E., Tan, S. L., **Zhu, Y. Z.***, Cheung, N. S., and Duan, W. (2006) The very C-terminus of protein kinase C epsilon is critical for the full catalytic competence but its hydrophobic motif is dispensable for the interaction with 3-phosphoinositide-dependent kinase-1. *Cell Signal* **18**, 807-818
240. Chen, C. Q., Wang, Y. X., Zhu, Y. C., and **Zhu, Y. Z.*** (2006) Interaction between hydrogen sulfide (H2S) and nitric oxide (NO) during the process of myocardial ischemia in rats. *Acta Pharmacol Sin* **27**, 175-175
241. Fu, Y. L., Chen, W. L., Moore, P. K., and **Zhu, Y. Z.*** (2006) Cardioprotective effects of Nitric Oxide-Aspirin in myocardial ischemia-reperfusioned rats. *Acta Pharmacol Sin* **27**, 140-141
242. **Zhu, Y. Z.***, Wang, Z. J., and Moore, P. K. (2006) Endogenous hydrogen sulfide is cardioprotective against myocardial ischemia in rat. *Acta Pharmacol Sin* **27**, 166-167
243. Hoon, T. C., Heng, K., **Zhu, Y. Z.**, Tang, Y. M., and Lau, G. K. K. (2006) Gene expression of 5-HT1A and 5-HT1B receptor subtypes in suicide completers and controls. *Int J Neuropsychoph* **9**, S215-S215
244. Fu, Y. L., Moore, P. K., **Zhu, Y. Z.***, and Grp, N. C. B. R. (2006) Cardioprotective effects of nitric oxide-paracetamol in myocardial ischemia reperfusioned rats. *Eur Heart J* **27**, 336-336
245. Lim, H., Sutomo, K., Teguh, S., Lubis, H. R., Lee, C. N., Siregar, Y., Kalaiselvi, K., and **Zhu, Y. Z.*** (2006) Effects of angiotensin II type 1 receptor antagonist on transforming growth factor-beta 1 and myocardial remodeling in rats with developing heart failure. *Circ Res* **99**, E42-E42
246. Hadyanto, L., Sutomo, K., and **Zhu, Y. Z.*** (2006) Effects of angiotensin II type 1 receptor blockade on transforming growth factor-beta 1 in the process of developing of heart failure in rats. *Acta Pharmacol Sin* **27**, 166-166
247. Zhang, J., Tian, Q., **Zhu, Y. Z.**, Xu, A. L., and Zhou, S. F. (2006) Reversal of resistance to oxazaphosphorines. *Curr Cancer Drug Tar* **6**, 385-407
248. Loh, K. P., Huang, S. H., De Silva, R., Tan, B. K., and **Zhu, Y. Z.*** (2006) Oxidative stress: apoptosis in neuronal injury. *Current Alzheimer research* **3**, 327-337
249. Li, L., Bhatia, M., **Zhu, Y. Z.**, Zhu, Y. C., Ramnath, R. D., Wang, Z. J., Anuar, F. B. M., Whiteman, M., Salto-Tellez, M., and Moore, P. K. (2005) Hydrogen sulfide is a novel mediator of lipopolysaccharide-induced inflammation in the mouse. *Faseb J* **19**, 1196-+
250. Rose, P., Whiteman, M., Moore, P. K., and **Zhu, Y. Z.*** (2005) Bioactive S-alk(en)yl cysteine sulfoxide metabolites in the genus Allium: the chemistry of potential therapeutic agents. *Nat Prod Rep* **22**, 351-368
251. Zhang, J., Tian, Q., Chan, S. Y., Li, S. C., Zhou, S. F., Duan, W., and **Zhu, Y. Z.*** (2005) Metabolism and transport of oxazaphosphorines and the clinical implications. *Drug Metab Rev* **37**, 611-703
252. Tian, Q., Zhang, J., Tan, T. M. C., Chan, E., Duan, W., Chan, S. Y., Boelsterli, U. A., Ho, P. C. L., Yang, H. Y., Bian, J. S., Huang, M., **Zhu, Y. Z.**, Xiong, W. P., Li, X. T., and Zhou, S. F. (2005) Human multidrug resistance associated protein 4 confers resistance to camptothecins. *Pharm Res-Dordr*

22, 1837-1853

253. Sun, J., Huang, S. H., Tan, B. K. H., Whiteman, M., Zhu, Y. C., Wu, Y. J., Ng, Y., Duan, W., and **Zhu, Y. Z.*** (2005) Effects of purified herbal extract of Salvia miltiorrhiza on ischemic rat myocardium after acute myocardial infarction. *Life sciences* **76**, 2849-2860
254. Wang, H., Wong, P. T. H., Spiess, J., and **Zhu, Y. Z.*** (2005) Cholecystokinin-2 (CCK2) receptor-mediated anxiety-like behaviors in rats. *Neurosci Biobehav R* **29**, 1361-1373
255. Sun, J., Huang, S. H., Zhu, Y. C., Whiteman, M., Wang, M. J., Tan, B. K. H., and **Zhu, Y. Z.*** (2005) Anti-oxidative stress effects of Herba leonuri on ischemic rat hearts. *Life sciences* **76**, 3043-3056
256. Lu, Q., **Zhu, Y. Z.**, and Wong, P. T. H. (2005) Neuroprotective effects of candesartan against cerebral ischemia in spontaneously hypertensive rats. *Neuroreport* **16**, 1963-1967
257. Hu, Z. P., Yang, X. X., Ho, P. C. L., Chan, E., Chan, S. Y., Xu, C. J., Li, X. T., **Zhu, Y. Z.**, Duan, W., Chen, X., Huang, M., Yang, H. Y., and Zhou, S. F. (2005) St. John's Wort modulates the toxicities and pharmacokinetics of CPT-11 (irinotecan) in rats. *Pharm Res-Dordr* **22**, 902-914
258. Cher, C. D. N., Armugam, A., **Zhu, Y. Z.**, and Jeyaseelan, K. (2005) Molecular basis of cardiotoxicity upon cobra envenomation. *Cell Mol Life Sci* **62**, 105-118
259. Lim, W. G., Zhu, Y. M., Wang, C. H., Tan, B. J., Armstrong, J. S., Dokland, T., Yang, H. Y., **Zhu, Y. Z.**, Teo, T. S., and Duan, W. (2005) The last five amino acid residues at the C-terminus of PRK1/PKN is essential for full lipid responsiveness. *Cell Signal* **17**, 1084-1097
260. Wang, Z. J., Lee, H. S., and **Zhu, Y. Z.*** (2005) Effects of ramipril, an anglotensin converting enzyme inhibitor, on apoptotic associated molecular expression in ischemic, reperfused myocardium. *Journal of the American College of Cardiology* **45**, 252a-252a
261. Wang, Z. J., Lee, H. S., and **Zhu, Y. Z.*** (2005) Microarray profiling to identify Angiotensin II-responsive genes in ischaemia-reperfusion injured myocardium. *Eur Heart J* **26**, 725-726
262. **Zhu, Y. Z.**, Chong, C. L., and Moore, P. K. (2005) Cardioprotective effects of nitroparacetamol and nitroasphrin in ischemic rat myocardium. *Circulation* **112**, U1195-U1195
263. Wang, Q., **Zhu, Y. Z.**, Steven, M. C., Ting, W. L., Yang, H. Y., and Wong, P. T. H. (2005) The HMG-COA reductase inhibitor, simvastatin up-regulates the dopamine D1 and D2 receptors expression in the frontal cortex among 6-hydroxydopamine-lesioned rat. *J Neurol Sci* **229**, 321-321
264. **Zhu, Y. Z.**, Huang, S. H., Tan, B. K. H., Sun, J., Whiteman, M., and Zhu, Y. C. (2004) Antioxidants in Chinese herbal medicines: a biochemical perspective. *Nat Prod Rep* **21**, 478-489
265. **Zhu, Y. Z.**, Wang, Z. J., Zhu, Y. C., Zhang, L., Oakley, R. M. E., Chung, C. W., Lim, K. W., Lee, H. S., Ozoux, M. L., Linz, W., Bohm, M., and Kostenis, E. (2004) Urotensin II causes fatal circulatory collapse in anesthesized monkeys in vivo: a "vasoconstrictor" with a unique hemodynamic profile. *Am J Physiol-Heart C* **286**, H830-H836
266. Whiteman, M., Cheung, N. S., **Zhu, Y. Z.**, Chu, S. H., Siau, J. L., Wong, B. S., Armstrong, J. S., and Moore, P. K. (2005) Hydrogen sulphide: a novel inhibitor of hypochlorous acid-mediated oxidative damage in the brain? *Biochemical and biophysical research communications* **326**,

794-798

267. Gong, H., Wang, Y. X., **Zhu, Y. Z.**, Wang, W. W., Wang, M. J., Yao, T., and Zhu, Y. C. (2004) Cellular distribution of GPR14 and the positive inotropic role of urotensin II in the myocardium in adult rat. *J Appl Physiol* **97**, 2228-2235
268. Swamy, S. M. K., Tan, P., **Zhu, Y. Z.**, Lu, J., Achuth, H. N., and Moochhala, S. (2004) Role of phenytoin in wound healing: microarray analysis of early transcriptional responses in human dermal fibroblasts. *Biochemical and biophysical research communications* **314**, 661-666
269. Farook, J. M., Wang, Q., Moochhala, S. M., Zhu, Z. Y., Lee, L., and Wong, P. T. H. (2004) Distinct regions of periaqueductal gray (PAG) are involved in freezing behavior in hooded PVG rats on the cat-freezing test apparatus. *Neurosci Lett* **354**, 139-142
270. Farook, J. M., **Zhu, Y. Z.**, Wang, Q., Moochhala, S. M., Lee, L., and Wong, P. T. H. (2004) Analysis of strain difference in behavior to Cholecystokinin (CCK) receptor mediated drugs in PVG hooded and Sprague-Dawley rats using elevated plus-maze test apparatus. *Neurosci Lett* **358**, 215-219
271. Lu, Q., **Zhu, Y. Z.**, and Wong, P. T. H. (2004) Angiotensin receptor gene expression in candesartan mediated neuroprotection. *Neuroreport* **15**, 2643-2646
272. Sherrin, T., Heng, K. Y. C., **Zhu, Y. Z.**, Tang, Y. M., Lau, G. K. K., and Tan, C. H. (2004) Cholecystokinin-B receptor gene expression in cerebellum, pre-frontal cortex and cingulate gyrus and its association with suicide. *Neurosci Lett* **357**, 107-110
273. Farook, J. M., McLachlan, C. S., **Zhu, Y. Z.**, Lee, L., Moochhala, S. M., and Wong, P. T. H. (2004) The CCK2 agonist BC264 reverses freezing behavior habituation in PVG hooded rats on repeated exposures to a cat. *Neurosci Lett* **355**, 205-208
274. **Zhu, Y. Z.**, Sherrin, T., Ching, K. H. Y., Yoke, M. T., Lau, G. K. K., and Chay, H. T. (2004) Cholecystokinin-B receptor gene expression in cerebellum, prefrontal cortex and cingulate gyrus and its association with suicide. *Journal of neurochemistry* **88**, 38-38
275. Tan, C. H., **Zhu, Y. Z.**, Sherrin, T., and Tang, Y. M. (2004) Corticotrophin Releasing Factor receptor 1 and corticotrophin releasing factor receptor 2 gene expression in cerebellum, pre-frontal cortex and cingulate gyrus and its association with suicide. *Int J Neuropsychoph* **7**, S457-S457
276. Chong, C. L., **Zhu, Y. Z.**, and Moore, P. K. (2004) Cardioprotective effects of nitroparacetamol and paracetamol in myocardial infarction. *Ann Emerg Med* **44**, S51-S52
277. Ji, X. Y., Tan, B. K. H., Zhu, Y. C., Linz, W., and **Zhu, Y. Z.*** (2003) Comparison of cardioprotective effects using ramipril and DanShen for the treatment of acute myocardial infarction in rats. *Life sciences* **73**, 1413-1426
278. Zhu, Y. C., **Zhu, Y. Z.**, Lu, N., Wang, M. J., Wang, Y. X., and Yao, T. (2003) Role of angiotensin AT(1) and AT(2) receptors in cardiac hypertrophy and cardiac remodelling. *Clin Exp Pharmacol P* **30**, 911-918
279. Lu, L., Yao, T., **Zhu, Y. Z.**, Huang, G. Y., Cao, Y. X., and Zhu, Y. C. (2003) Chronic all-trans retinoic acid treatment prevents medial thickening of intramyocardial and intrarenal arteries in spontaneously hypertensive rats. *Am J Physiol-Heart C* **285**, H1370-H1377

280. Wang, H., **Zhu, Y. Z.**, Farook, J. M., Moochhala, S., Teo, A. L., Lee, L. K. H., and Wong, P. T. H. (2003) Genetic variations in CCK2 receptor in PVG hooded and Sprague-Dawley rats and its mRNA expression on cat exposure. *Behav Neurosci* **117**, 385-390
281. Wong, P. T. H., **Zhu, Y. Z.**, Wang, H., Farook, J., and Moochhala, S. (2003) Cholecystokinin-2 (CCK2) receptor expression and the freezing behaviour exhibited by PVG hooded rats on cat exposure. *Journal of neurochemistry* **87**, 77-77
282. Wang, H., **Zhu, Y. Z.**, Wong, P. T., Farook, J. M., Teo, A. L., Lee, L. K., and Moochhala, S. (2003) cDNA microarray analysis of gene expression in anxious PVG and SD rats after cat-freezing test. *Exp Brain Res* **149**, 413-421
283. Swamy, S., Tan, P., Lu, J., Zhu, Y., Achuth, H., and Moochhala, S. (2002) Role of phenytoin in wound healing: Microarray analysis of early transcriptional responses in human dermal fibroblast. *Mol Biol Cell* **13**, 104a-104a
284. Sun, J., Tan, B. K. H., Huang, S. H., Whiteman, M., and **Zhu, Y. Z.*** (2002) Effects of natural products on ischemic heart diseases and cardiovascular system. *Acta Pharmacol Sin* **23**, 1142-1151
285. Loo, L. S., Ng, Y. K., **Zhu, Y. Z.**, Lee, H. S., and Wong, P. T. H. (2002) Cortical expression of endothelin receptor subtypes A and B following middle cerebral artery occlusion in rats. *Neuroscience* **112**, 993-1000
286. Wang, H., **Zhu, Y. Z.**, Tang, Y. K., Lau, G. K. K., Moochhala, S., and Tan, C. H. (2001) Gene expression of serotonin receptor subtypes and cholecystokinin-B receptor in suicide patients. *Journal of neurochemistry* **77**, 53-53
287. Farook, J. M., **Zhu, Y. Z.**, Wang, H., Moochhala, S., Lee, L., and Wong, P. T. H. (2001) Strain differences in freezing behavior of PVG hooded and Sprague-Dawley rats: differential cortical expression of cholecystokinin(2) receptors. *Neuroreport* **12**, 2717-2720
288. **Zhu, Y. Z.**, Zhu, Y. C., Wang, Z. J., Lu, Q., Lee, H. S., and Unger, T. (2001) Time-dependent apoptotic development and pro-apoptotic genes expression in rat heart after myocardial infarction. *Jpn J Pharmacol* **86**, 355-358
289. **Zhu, Y. Z.**, Zhu, Y. C., Stoll, M., and Unger, T. (2000) Identification of regulated genes in rat heart after myocardial infarction by means of differential mRNA display. *Jpn Heart J* **41**, 59-66
290. **Zhu, Y. Z.**, Zhu, Y. C., Wang, Z. J., Lim, K. W., Lu, Q., Lee, H. S., and Unger, T. H. (2001) Fas and bax genes expression and apoptosis in rat heart after myocardial infarction. *Eur Heart J* **22**, 673-673
291. Ji, X. Y., Tan, B. K. H., and **Zhu, Y. Z.*** (2000) Salvia miltiorrhiza and ischemic diseases. *Acta Pharmacol Sin* **21**, 1089-1094
292. **Zhu, Y. Z.**, Chimon, G. N., Zhu, Y. C., Lu, Q., Li, B., Hu, H. Z., Yap, E. H., Lee, H. S., and Wong, P. T. H. (2000) Expression of angiotensin II AT(2) receptor in the acute phase of stroke in rats. *Neuroreport* **11**, 1191-1194
293. Zhu, Y. C., **Zhu, Y. Z.**, Li, J., Schafer, H., Schmidt, W. E., and Unger, T. (1999) Effects of ramipril on cardiac gene transcription levels of angiotensin II receptors after myocardial infarction. *Acta*

Pharmacol Sin **20**, 481-485

294. **Zhu, Y. Z.**, Zhu, Y. C., Li, J., Schäfer, H., Schmidt, W., Yao, T., and Unger, T. (2000) Effects of losartan on haemodynamic parameters and angiotensin receptor mRNA levels in rat heart after myocardial infarction. *Journal of the renin-angiotensin-aldosterone system : JRAAS* **1**, 257-262
295. **Zhu, Y. Z.** Overview on pharmacological properties of angiotensin converting enzyme inhibitors.
296. Ito, K., **Zhu, Y. Z.**, Zhu, Y. C., Gohlke, P., and Unger, T. (1997) Contribution of bradykinin to the cardioprotective action of angiotensin converting enzyme inhibition in hypertension and after myocardial infarction. *Jpn J Pharmacol* **75**, 311-318
297. Unger, T., **Zhu, Y. Z.**, Stoll, M., and Gohlke, P. (1997) Basic mechanism in the regulation of myocardial blood flow: Angiotensin II and bradykinin. *Alfred Benzon Symp S* **41**, 104-113
298. Tschöpe, C., Gohlke, P., **Zhu, Y. Z.**, Linz, W., Schölkens, B., and Unger, T. (1997) Antihypertensive and cardioprotective effects after angiotensin-converting enzyme inhibition: role of kinins. *J Card Fail* **3**, 133-148
299. Gallinat, S., Yu, M. H., **Zhu, Y. Z.**, Herdegen, T., and Unger, T. (1997) Upregulation of angiotensin receptors after myocardial infarction and sciatic nerve transection: a common expression pattern. *Hypertension* **30**, 94-94
300. Zhu, Y. C., **Zhu, Y. Z.**, Gohlke, P., Stauss, H. M., and Unger, T. (1997) Effects of angiotensin-converting enzyme inhibition and angiotensin II AT1 receptor antagonism on cardiac parameters in left ventricular hypertrophy. *Am J Cardiol* **80**, 110A-117A
301. Unger, T., Chung, O., Csikos, T., Culman, J., Gallinat, S., Gohlke, P., Hohle, S., Meffert, S., Stoll, M., Stroth, U., and **Zhu, Y. Z.** (1996) Angiotensin receptors. *J Hypertens* **14**, S95-S103
302. Zhu, Y. C., **Zhu, Y. Z.**, Spitznagel, H., Gohlke, P., and Unger, T. (1996) Substrate metabolism, hormone interaction, and angiotensin-converting enzyme inhibitors in left ventricular hypertrophy. *Diabetes* **45**, S59-S65
303. Zhu, Y. C., Stauss, H. M., Bao, G., Gohlke, P., **Zhu, Y. Z.**, Redlich, T., and Unger, T. (1995) Role of Bradykinin in the Antihypertensive and Cardioprotective Actions of Converting-Enzyme Inhibitors. *Can J Physiol Pharm* **73**, 827-831
304. **Zhu, Y. Z.**, Li, J., Zhu, Y. C., Chung, O., Spitznagel, H., Schafer, H., Sandmann, S., Schmidt, W. E., and Unger, T. (1996) Gene expression of angiotensin AT1 and AT2 receptors in cardiac tissue after myocardial infarction. *Hypertension* **28**, 694-694
305. **Zhu, Y. Z.**, Li, J., Zhu, Y. C., Chung, O., Spitznagel, H., Sandmann, S., Tschope, C., and Unger, T. (1996) Increased gene expression of angiotensin AT1 and AT2 receptors in the acute phase of myocardial infarction. *Hypertension* **28**, P113-P113

Genes：

Rat heart cystathionine gamma lyase (Genbank)

http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotideandval=50059578
Authors: Zhu,Y.Z., Wang,Z.J., Duan,W., Tan,B.J. and Moore,P.K.

Macaca fascicularis cystathionine gamma-lyase mRNA, complete cds (Genbank) (http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucleotideandval=58373387).
Authors: Zhu,Y.Z., Wang,Z.J., Duan,W., Tan,B.J. and Moore,P.K.