

Jianzhong Chen, PhD

Postdoctoral Researcher, Saha Cardiovascular Research Center, University of Kentucky, Lexington, KY 40536

Email: chenjz1977@uky.edu

Phone: 859-2579539

Biography

Dr. Chen is currently a postdoctoral researcher in Saha Cardiovascular Research Center, University of Kentucky. Prior to this position, he was a postdoctoral researcher in College of Pharmacy University of Kentucky and Louisiana State University from Jan., 2015 to Jul., 2018. He received his PhD degree from China Pharmaceutical University in 2010. After graduation, he worked in College of Pharmacy, Fujian University of Traditional Chinese Medicine (China) from Oct., 2010 to Jan., 2015. He is also invited reviewers for government funds and peer-reviewed journals. Dr. Chen has contributed about 50 original papers, and review articles to professional journals. His research interests cover the area of LC-MS/MS based bioanalysis, drug metabolism, pharmacokinetics, anticancer and anti-inflammatory drug discovery and development, solubilization of water insoluble bioactive compounds etc.

Selected Publications (20 out of 50)

- 1) **J.Z. Chen**, X.M. Fu, Y.X. Dong, M. Liu, J. Zhan and Z.J. Liu, HPLC-MS determination and pharmacokinetic study of 7, 8-dihydroxyflavone, a naturally-occurring neuroprotective agent after a single oral administration in rats [J]. **Current Pharmaceutical Analysis**, 2018, 14(4):343-348.
- 2) W.G. Chen, Y.Y. Xiao, Y.L. Cheng, **J.Z. Chen**, J.H. Chen, K. Jiang, Y.Y. Zhou and L. Jia, Pharmacokinetic differences of mifepristone between sexes in animals [J]. **Journal of Pharmaceutical and Biomedical Analysis**. 2018, 154: 108-115.
- 3) K. Ding, Z.Y. Zhou, S.R. Hou, Y.X. Yuan, S. Zhou, X.R. Zheng, **J.Z. Chen**, C. Loftin, F. Zheng and C.G. Zhan, Structure-based discovery of mPGES-1 inhibitors suitable for preclinical testing in wild-type mice as a new generation of anti-inflammatory drugs [J]. **Scientific Reports**, 2018, 8: 5205.
- 4) W.G. Chen, Y.Y. Xiao, **J.Z. Chen**, J. Liu, J.W. Shao, T. Li, Y.W. Zhu, J. Ma, Y. Gao, J.C. Wang, J.G. Xu, Y.S. Lu and L. Jia, Sex-related pharmacokinetic differences and mechanisms of metapristone (RU486 metabolite) [J]. **Scientific Reports**. 2017, 7: 17190.
- 5) X.F. Chen*, **J.Z. Chen (co-first author)**, B.W. Li, X. Yang, R.J. Zeng, Y.J. Liu, T. Li, R. Ho, J.W. Shao, PLGA-PEG-PLGA triblock copolymeric micelles as oral drug delivery system: in vitro drug release and in vivo pharmacokinetics assessment [J]. **Journal of Colloid and Interface Science**, 2017, 490: 542-552.
- 6) H.J. Zhang, F.Q. Wu, Y.Z. Li, X.P. Yang, J.M. Huang, T.T. Lv, Y.Y. Zhang, **J.Z. Chen (corresponding author)**, H.J. Chen, Y. Gao, G.N. Liu, and L. Jia, Chitosan-based nanoparticles for improved anticancer efficacy and bioavailability of mifepristone [J]. **Beilstein J. Nanotechnol.**, 2016, 7: 1861-1870.
- 7) J.C. Wang, **J.Z. Chen (co-first author)**, Y.W. Zhu, N. Zheng, J. Liu, Y.Y. Xiao, Y.S. Lu, H.Y. Dong, J.J. Xie, S.H. Yu, J.W. Shao, and L. Jia, In vitro and in vivo efficacy and safety evaluation of

- metapristone and mifepristone as cancer metastasis chemopreventive agents [J]. **Biomedicine & Pharmacotherapy**, 2016, 78:291-300.
- 8) Y. Gao, Z.H. Li, X.D. Xie, C.Q. Wang, J.L. You, F. Mo, B.Y. Jin, **J.Z. Chen**, J.W. Shao, H.J. Chen and L. Jia. Dendrimeric anticancer prodrugs for targeted delivery of ursolic acid to folate receptor-expressing cancer cells: synthesis and biological evaluation [J]. **European Journal of Pharmaceutical Science**. 2015, 70:55-63.
 - 9) Y. Gao, Z. Li, C. Wang, J. You, B. Jin, F. Mo, **J.Z. Chen**, Y. Zheng and H. Chen Self-assembled chitosan/rose bengal derivative nanoparticles for targeted sonodynamic therapy: preparation and tumor accumulation [J]. **RSC Adv.**, 2015,5, 17915-17923
 - 10) Y. Li, R.J. Zeng, **J.Z. Chen (corresponding author)**, Y.B. Wu, G.X. Chou, Y. Gao, J.W. Shao, H.Z. Cai, and L. Jia, Pharmacokinetics and metabolism study of isoboldine, a major bioactive component from Radix Linderae in male rats by UPLC-MS/MS [J]. **Journal of Ethnopharmacology**, 2015, 171: 154-160.
 - 11) R.J. Zeng, Y. Li, **J.Z. Chen (corresponding author)**, G. X. Chou, Y. Gao, J.W. Shao, L. Jia, S.D. Wu and S.S. Wu, A novel UPLC-MS/MS method for sensitive quantitation of boldine in plasma, a potential anti-inflammatory agent: application to a pharmacokinetic study in rats [J]. **Biomedical Chromatography**, 2015, 29(3):459-464.
 - 12) **J.Z. Chen**, J.C. Wang, J.W. Shao, Y. Gao, J.G. Xu, S.H. Yu, Z.H. Liu, and L. Jia. The unique pharmacological characteristics of mifepristone (RU486): from terminating pregnancy to preventing cancer metastasis [J]. **Medicinal Research Reviews**, 2014, 34(5):979-1000.
 - 13) **J.Z. Chen**, J.C. Wang, Y. Gao, R.J. Zeng, Z. Jiang, Y.W. Zhu, J.W. Shao and L. Jia. A novel UPLC/MS/MS method for rapid determination of metapristone in rat plasma, a new cancer metastasis chemopreventive agent derived from mifepristone (RU486) [J]. **Journal of Pharmaceutical and biomedical analysis**, 2014, 95:158-163.
 - 14) Y. Gao, J.w. Shao, Z.Jiang, **J.Z. Chen**, S.E. Gu, S.H. Yu, K. Zheng, and L. Jia, Drug enterohepatic circulation and disposition: constituents of systems pharmacokinetics [J]. **Drug Discovery Today** 2014, 19(3):326-340.
 - 15) Y. Li, R.J. Zeng, Q. Lu, S.S. Wu and **J.Z. Chen (corresponding author)**, Ultrasound/microwave assisted extraction and comparative analysis of bioactive/ toxic indole alkaloids in different medicinal parts of Gelsemium elegans Benth by UPLC/MS/MS [J]. **Journal of Separation Science**, 2014, 37(3):308-313.
 - 16) J.J. Xie, J.W. Shao, Y.S. Lu, **J.Z. Chen**, J.C. Wang, S.H. Yu, and L. Jia, Separation of ginseng active ingredients and their roles in cancer metastasis supplementary therapy[J]. **Current Drug Metabolism**, 2013, 14(5):614-621.
 - 17) **J.Z. Chen**, Y. Li, J.P. Xiao, S.S. Wu and H.W. Song, Development of a sensitive and rapid UPLC/MS/MS method for the determination of koumine in rat plasma: application to a pharmacokinetic study [J]. **Biomedical Chromatography**, 2013, 27(6): 736-740.
 - 18) **J.Z. Chen**, G.X. Chou*, L. Yang, S.W. Annie Bligh and Z.T. Wang, Quantification of norisoboldine in Linderae Radix by ultra-performance liquid chromatography and high-performance liquid chromatography with UV detection [J]. **Journal of Liquid Chromatography and Related Technologies**, 2012, 35(6): 788-797.
 - 19) **J.Z. Chen**, Y. Xu, G.X. Chou, C.H. Wang, L. Yang and Z.T. Wang, Simultaneous determination of norisoboldine and its major metabolite in rat plasma by ultra-performance liquid chromatography / mass spectrometry and its application in a pharmacokinetic study [J].

Biomedical Chromatography, 2011, 25 (3): 367-372.

- 20) **J.Z. Chen**, G.X. Chou, C.H. Wang, L. Yang, S.W. Annie Bligh and Z.T. Wang. Characterization of new metabolites from in vivo biotransformation of norisoboldine by liquid chromatography / mass spectrometry and NMR spectroscopy [J]. **Journal of Pharmaceutical and biomedical analysis**, 2010, 52(5):687-693.