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主要经历:

1988年至2005年武汉大学人民医院工作

2005年获武汉大学生命科学院生物化学与分子生物学专业博士学位

2008年至2009年加拿大University of Waterloo博士后

2006年至今武汉大学药学院工作

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学术兼职

湖北省植物学会常务理事、湖北省暨武汉市生物物理学会常务理事

研究兴趣及方向

天然药物活性成分及作用机制; 抗肿瘤药物作用机制; 药物新制剂

近期承担课题

主持国家自然科学基金面上项目 (31970369)

主持国家自然科学基金面上项目 (31670348)

主持国家自然科学基金面上项目 (31070317)

主持国家自然科学基金面上项目 (30970294)

主持湖北省自然科学基金 1项

承担横向课题多项

近年代表性论著

以第一作者或通讯作者身份在PNAS, Organic Letters, Organic Chemistry Frontiers, Journal of Agricultural and Food Chemistry, Food Chemistry, Food and Chemical Toxicology, European Journal of Pharmacology, Phytochemistry等期刊上发表多篇研究论文。

1. Cai YS (#), Wu Z (#), Zheng XQ, Wang C, Wang JR, Zhang XX, Qiu G, Zhu K, Cao S, Yu J * (2020). Spiroalanpyrroids A and B, sesquiterpene alkaloids with a unique spiro-eudesmanolide-pyrrolizidine skeleton from Inula helenium. Organic Chemistry Frontiers 7: 303-309.

2. Wu Z (#), Cai YS (#), Yuan R, Wan Q, Xiao D, Lei J*, Yu J* (2020). Bioactive pterocarpanes from *Inula helenium*–*graculum* L. Food Chemistry 313: 126092–126092.

3. Cai YS(#), Wu Z(#), Wang JR, Zheng XQ, Xu J* (2019). Bioactive pterocarpanes–Dimeric four eudesmanolide–furan sesquiterpene adducts with a pentacyclic 6/6/5/5/5 skeleton from *Inula helenium*. Organic Letters 21: 9478–9482.

4. Xie Z (#), Wei Y (#), Xu J, Lei J, Yu J * (2019). Alkaloids from *Piper nigrum* Synergistically Enhanced the Effect of Paclitaxel against Paclitaxel- Resistant Cervical Cancer Cells through the Downregulation of Mcl-1. Journal of Agricultural and Food Chemistry 67: 5159–5168.

5. Xie Z, Guo Z, Lei J, Yu J* (2019). Scutellarin synergistically enhances cisplatin effect against ovarian cancer cells through enhancing the ability of cisplatin binding to DNA. European Journal of Pharmacology 844: 9–16.

6. Guo Z#, Xu J#, Xia J, Wu Z, Lei J, Yu J* (2019). Anti-inflammatory and antitumour activity of various extracts and compounds from the fruits of *Piper longum* L. Journal of Pharmacy and Pharmacology 71: 1162–1171.

7. Wu Z #, Xia J #, Guo Z, Lei J, Yu J * (2019). Biological activities of the extracts and compounds from the bark of *Pterocarya hupehensis* skan. Natural Product Research,doi.org/10.1080/14786419.2019.1643857.

8. Xie Z, Guo Z, Wang Y, Lei J, Yu J* (2018). Protocatechuic acid inhibits the growth of ovarian cancer cells by inducing apoptosis and autophagy. Phytotherapy Research 32(1): 2256–2263.

9. Xia J #, Yang C #, Wang Y, Yang Y, Yu J*(2017). Antioxidant and antiproliferative activities of the leaf extracts from *Trapa bispinosa* and active components. South African Journal of Botany 113: 377–381.

10. Yang Y, Chen H, Lei J, Yu J* (2016). Biological activity of extracts and active compounds isolated from *Siegesbeckia orientalis* L. Industrial Crops and Products 94: 288–293.

11. Lei JC#, Yang CX#, Yang Y, Zhang W, Yu J* (2015). Antioxidant and antitumour activities of extracts from *Patrinia villosa* and its active constituents. Journal of Functional Foods 16: 289–294.

12. Yu J*, Bao W, Lei J (2013). Emodin regulates apoptotic pathway in human liver cancer cells. Phytotherapy Research 27(2): 251–257.

13. Ding C, Zhang W, Li J, Lei J, Yu J*(2013). Cytotoxic constituents of ethyl acetate fraction from *Dianthus superbus*. Natural Product Research 27: 1691–1694.

14. Luo T #, Yu J # (共同第一作者) , Nguyen J #, Wang CR, Bristow RG, Jaffray DA, Zhou XZ, Lu KP, Lu QB* (2012). Electron transfer-based combination therapy of cisplatin with tetramethyl-p-phenylenediamine for ovarian, cervical, and lung cancers. Proc. Natl. Acad. Sci. USA (PNAS)109: 10175–10180.

15. Yu J, Yin Y, Lei J, Zhang X, Chen W, Ding C, Wu S, He X, Liu Y, Zou G (2012). Activation of apoptosis by ethyl acetate fraction of ethanol extract of *Dianthus superbus* in HepG2 cell line. Cancer Epidemiology 36: e40–e45.

16. Lei J, Yu J*, Yin Y, Liu Y, Zou G (2012). Alantolactone induces activation of apoptosis in human hepatoma cells. Food and Chemical Toxicology 50: 3313–3319.

17. Yu J, Lei J, Zhang X, Yu H, Tian D, Liao Z, Zou G (2011). Anticancer, antioxidant and antimicrobial activities of the essential oil of *Lycopus lucidus* Turcz. var. *hirtus* Regel. Food Chemistry 126: 1593–1598.

18. Lei J, Yu J*, Yu H, Liao Z. Composition, cytotoxicity and antimicrobial activity of essential oil from *Dictamnus dasycarpus*. Food Chemistry, 2008, 107: 1205–1209.

19. Yu J, Liu H, Tian D, Liu Y, Lei J, Zou G (2007). Changes in mitochondrial membrane potential and reactive oxygen species during wogonin-induced cell death in human hepatoma cells. Hepatology Research 37: 68–76.



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学院概况

师资队伍

人才培养

科学研究

平台基地

合作交流



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20. Yu J, Liu H, Lei J, Tan W, Hu X, Zou G (2007). Antitumor activity of chloroform fraction



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21. Yu J, Liao Z, Lei J, Hu X (2007). Antioxidant and cytotoxic activities of various fractions of ethanol extract of *Dianthus superbus*. Food Chemistry 104: 1215-1219.

22. Yu J, Liao Z, Cai X, Lei J, Zou G (2007). Composition, antimicrobial activity and cytotoxicity of essential oils from *Aristolochia mollissima*. Environmental Toxicology and Pharmacology 23: 162-167.



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