



# 热烈庆祝中国医学科学院药物研究所建所60周年

## 研究生教育

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**康洁**, 副研究员, 主要从事天然药物化学的研究和中药新药的开发工作。

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### 教育背景

2001/09-2006/06 中国协和医科大学, 药物化学专业, 博士学位  
 1995/09-1999/06 同济医科大学, 药学专业, 理学学士

### 研究工作经历

2012/09- 今 中国医学科学院药物研究所, 天然产物化学室, 副研, 硕导  
 2008/09-2012/06 美国阿肯色大学儿童营养研究中心, 生理系, 博士后  
 2006/09-2008/08 北京大学医学部药学院, 天然产物化学系, 博士后  
 1999/09-2001/08 中国医学科学院药物研究所, 天然产物化学室, 实习研究员

### 专业研究领域

多年来一直从事天然产物化学的研究, 包括中草药、真菌和天然食品等, 如大叶鼠尾草、蓝莓、鸡眼藤、猴耳环、五味子、桑、金针菇等。主持或参与完成国家自然科学基金重点、面上项目, 教育部创新团队计划等, 中国医学科学院医学与健康科技创新工程项目。曾获北京市科学技术奖(一等奖)及高等学校科学研究优秀成果奖自然科学奖(二等奖)。

### 主要研究领域

## 1. 天然产物活性物质的寻找与发现

(1) 抗肿瘤、心血管及代谢性疾病的活性天然产物的寻找、发现与结构修饰。

(2) 药用真菌活性成分的研究。

(3) 液质分析的研究。

## 2. 常用中药(单方和复方)药效物质基础研究

针对所要研究的中药(单方和复方)在临床上所治疗病症,选择相应的药理筛选指标,进行高通量筛选,以确定该单方或复方的药效物质和药效物质群。通过HPLC, HPLC-NMR, HPLC-MS, 确定化合物类型, 结合快速分离方法, 得到单体化合物, 并确定化合物结构。研究复方的化学组成与药效相关性, 确定活性化合物。提供新药研究先导化合物。

## 3. 中药质量标准研究。

(1) 中药有效成分、指标成分含量测定方法研究, 质控标准研究。

(2) 中药指纹谱研究。

## 近年发表文章

1. Fenghua Li, Ting Zhang, Hua Sun, Haifeng Gu, Hongqing Wang, Xianming Su, Changkang Li, Baoming Li, Ruoyun Chen, **Jie Kang**\*. A new nortriterpenoid, a sesquiterpene and hepatoprotective lignans isolated from the fruit of *Schisandra chinensis*. *Molecules*, 2017, 22, 1931.
2. Xianming Su, Jian Zhang, Hongqing Wang, Jing Xu, Jiuming He, Liying Liu, Ting Zhang, Ruoyun Chen, **Jie Kang**\*. Phenolic acid profiling, antioxidant, and anti-inflammatory activities, and miRNA regulation in the polyphenols of 16 blueberry samples from China. *Molecules*, 2017, 22, 312.
3. **Jie Kang**, Yanbo Tang, Quan Liu, Nan Guo, Jian Zhang, Zhiyan Xiao, Ruoyun Chen\*, Zhufang Shen\*. Isolation, modification, and aldose reductase inhibitory activity of rosmarinic acid derivatives from the roots of *Salvia grandifolia*. *Fitoterapia*, 2016, 112: 197-204.
4. **Jie Kang**, Peng Zhang, Zengping Gao, Jian Zhang, Yan Zheng, Hongqing Wang, Ruoyun Chen\*. Naphthohydroquinones, naphthoquinones, anthraquinones, and a naphthohydroquinone dimer isolated from the aerial parts of *Morinda parvifolia* and their cytotoxic effects through up-regulation of p53. *Phytochemistry*, 2016, 130,144-151.
5. **Jie Kang**, Ting Zhang, Li Li, Hua Sun, Dingding Wang, Ruoyun Chen\*. Hepatoprotective diterpenoids from the roots of *Salvia grandifolia*. *Journal of Asian Natural Products Research*, 2016, 18 (5), 504-508.
6. **Jie Kang**, Li Li, Dingding Wang, Hongqing Wang, Chao Liu, Baoming Li, Yu Yan, Lianhua Fang, Guanhua Du, Ruoyun Chen\*. Isolation and bioactivity of diterpenoids from the roots of *Salvia grandifolia*. *Phytochemistry*, 2015, 116, 337-348.
7. **Jie Kang**, Keshari M. Thakali, Gitte S. Jensen, Xianli Wu\*. Phenolic acids of the two major blueberry species in the US market and their antioxidant and anti-inflammatory activities. *Plant Foods Hum Nutr*, 2015, 70 (1), 56-62.
8. **Jie Kang**, Chao Liu, Hongqing Wang, Baoming Li, Chao Li, Ruoyun Chen\* and Ailin Liu\*. Studies on the bioactive flavonoids isolated from *Pithecellobium clypearia Benth.* *Molecules*, 2014, 19 (4), 4479-4490.
9. **Jie Kang**, Keshari M. Thakali, Chenghui Xie, Miwako Kondo, Yudong Tong, Boxin Ou, Gitte Jensen, Marjorie B. Medina, Alexander G. Schauss, and Xianli Wu\*. Bioactivities of açai (*Euterpe precatoria* Mart.) fruit pulp,

superior antioxidant and anti-inflammatory properties to *Euterpe oleracea* Mart. *Food Chemistry*, 2012, 133 (1), 671-677.

10. **Jie Kang**, Chenghui Xie, Zhimin Li, Shanmugam Nagarajan, Alexander G. Schauss, Tong Wu, and Xianli Wu\*. Flavonoids from açai (*Euterpe oleracea* Mart.) pulp and their antioxidant and anti-inflammatory activities. *Food Chemistry*, 2011, 128 (1), 152-157.
11. **Jie Kang**, Zhimin Li, Tong Wu, Gitte S. Jensen, Alexander G. Schauss and Xianli Wu\*. Anti-oxidant capacities of flavonoid compounds isolated from açai pulp (*Euterpe oleracea* Mart.). *Food Chemistry*, 2010, 122 (11), 610-617.
12. **Jie Kang**, Thomas M. Badger, Martin J.J. Ronis and Xianli Wu\*. Non-isoflavone phytochemicals in soy and their health effects. *Journal of Agricultural and Food Chemistry*, 2010, 58 (14), 8119-8133.
13. Chenghui Xie, **Jie Kang**, Matthew E. Ferguson, Shanmugam Nagarajan, Thomas M. Badger, and Xianli Wu\*. Blueberries reduce pro-inflammatory cytokine TNF- $\alpha$  and IL-6 production in mouse macrophages by inhibiting NF- $\kappa$ B activation and the MAPK pathway. *Molecular Nutrition & Food Research*, 2011, 55 (10), 1587-1591.
14. Chenghui Xie, **Jie Kang**, Jinran Chen, Shanmugam Nagarajan, Thomas M. Badger, and Xianli Wu\*. Phenolic acids are *in vivo* atheroprotective compounds appearing in the serum of rats after blueberry consumption. *Journal of Agricultural and Food Chemistry*, 2011, 59 (18), 10381-10387.

#### 参与编写的专著

1. 陈若芸, 康洁 (副主编), 中国食用药用真菌化学, 上海科学技术文献出版社, 2016.
2. Xianli Wu and **Jie Kang**, Phytochemicals - Bioactivities and Impact on Health(Phytochemicals in soy and their health effects, Chapter 2, 43-76), INTECH Publisher, 388pages, 2011.
3. Xianli Wu and **Jie Kang**, Berries: Properties, Consumption and Nutrition (Blueberries: Major phytochemicals and potential health effects in cardiovascular diseases, Chapter 4,83-104), Nova Publisher, 220 pages, 2011.
4. Xianli Wu, **Jie Kang** and Keshari M. Thakali, Soy: Nutrition, Consumption and Health (The role of non-isoflavone phytochemicals in soy-derived health benefits, Chapter 8, 161-188), Nova Publisher, 430 pages, 2012.

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