

中西医结合研究院/学院导师简介

导师信息

姓名: 尹沛源 **籍贯:** 辽宁丹东
性别: 男 **民族:** 汉族
出生年月: 1978年8月 **职称:** 研究员
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导师类别: 博士研究生指导教师
 学术学位硕士指导教师 专业学位硕士指导教师



工作经历

2009.10-2012.12	中国科学院大连化学物理研究所	助理研究员
2012.12-2018.03	中国科学院大连化学物理研究所	副研究员
2018.03-2018.11	大连医科大学附属第一医院	副研究员
2018.11-至今	大连医科大学附属第一医院	研究员

学校及社会兼职

中国医师协会检验医师分会临床质谱专家委员会	委员
中国医师协会临床精准医疗专业委员会癌症代谢与治疗专业委员会	委员
Frontiers in Endocrinology 杂志 (Cancer Endocrinology 方向)	副主编
Metabolites 杂志	编委

主要研究方向

1. 基于色谱-质谱技术的代谢组学技术方法的开发
2. 代谢组学在中医药研究就临床中的应用
3. 肝胆胰疾病的代谢组学研究

主要科研成果

在国际期刊上发表 SCI 收录文章 80 余篇，总引用数超过 5000 次，H 指数 41。已申请国内发明专利 10 余项（授权专利 7 项），参与撰写专著 3 部。中国分析测试学会科学技术奖特定奖（2020 年度）

主要学术论著

期刊论文

1. Yin P, Lehmann R, Xu G*. Effects of pre-analytical processes on blood samples used in metabolomics studies. *Anal Bioanal Chem.* (2015);407(17):4879-92.
2. Yin P, Xu G*. Current state-of-the-art of nontargeted metabolomics based on liquid chromatography-mass spectrometry with special emphasis in clinical applications. *J Chromatogr A.* (2014);1374:1-13.
3. Yin P., Peter A., Franken H., Zhao X., Neukamm S. S., Rosenbaum L., Lucio M., Zell A., Haring H. U., Xu G*, Lehmann R*. (2013) Preanalytical aspects and sample quality assessment in metabolomics studies of human blood. *Clin. Chem.* 59, 833-845.
4. Yin P., Xu G*. (2013) Metabolomics for tumor marker discovery and identification based on chromatography-mass spectrometry. *Expert Rev Mol Diagn.* 13(4):339-48.
5. Tan Y., Yin P., Tang L., Xing W., Huang Q., Cao D., Zhao X., Wang W., Lu X., Xu Z. Wang H*, Xu G*. (2012) Metabolomics study of stepwise hepatocarcinogenesis from the model rats to patients: potential biomarkers effective for small hepatocellular carcinoma diagnosis. *Molecular & Cellular Proteomics* 11, M111. 010694.
6. Yin P, Zhao X, Li Q, Wang J, Li J, Xu G.* Metabolomics study of intestinal fistulas based on ultraperformance liquid chromatography coupled to Q-TOF Mass spectrometry (UPLC/Q-TOF MS) *J Proteome Res.*, 2006, 5, 2135-2143.
7. Yin P.; Wan D; Zhao C.; Chen J.; Zhao X.; Wang W.; Lu X, Yang S.; Gu J.; Xu G.*, A metabolomic study of hepatitis B-induced liver cirrhosis and hepatocellular carcinoma by using RP-LC and HILIC coupled with mass spectrometry. *Mol Biosyst*, 2009 5(8):868-76.
8. Yin P, Mohemaiti P, Chen J, Zhao X, Lu X, Yimiti A, Upur H, Xu G*. Serum metabolic profiling of abnormal savda by liquid chromatography/mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* (2008) Aug 15;871(2):322-7.
9. Yao Z., Yin P., Su D., Peng Z., Zhou L., Ma L., Guo W., Ma L., Xu G*, Shi J*. Jiao B*. (2011) Serum metabolic profiling and features of papillary thyroid carcinoma and nodular goiter. *Molecular BioSystems* 7, 2608-2614.
10. Zeng J, Yin P, Tan Y, Dong L, Hu C, Huang Q, Lu X, Wang H*, Xu G*. Metabolomics Study of Hepatocellular Carcinoma: Discovery and Validation of Serum Potential Biomarkers by Using Capillary Electrophoresis-Mass Spectrometry. *J Proteome Res.* (2014) Jun 2. PMID: 24853826.

11. Lin X*, Wang Q., Yin P*, Tang L., Tan Y., Li H., Yan K., Xu G. (2011) A method for handling metabolomics data from liquid chromatography/mass spectrometry: combinational use of support vector machine recursive feature elimination, genetic algorithm and random forest for feature selection. *Metabolomics* 7, 549-558. (通讯)
12. Zeng J, Huang X, Zhou L, Tan Y, Hu C, Wang X, Niu J, Wang H, Lin X, Yin P*. *Metabolomics Identifies Biomarker Pattern for Early Diagnosis of Hepatocellular Carcinoma: from Diethylnitrosamine Treated Rats to Patients*. *Sci Rep.* (2015);5:16101.
13. Huang X, Zeng J, Zhou L, Hu C, Yin P*, Lin X*. *A New Strategy for Analyzing Time-Series Data Using Dynamic Networks: Identifying Prospective Biomarkers of Hepatocellular Carcinoma*. *Sci Rep.* (2016) Aug 31;6:32448.
14. Zhou L, Yin P*, Luo P, Tang L, Wang Z, Gao P, Piao H, Lu X, Xu G. *High-throughput metabolic profiling based on small amount of hepatic cells*. *Electrophoresis.* 2017 09;38 (18): 2296-2303. (通讯作者)
15. Luo P, Yin P, Hua R, Tan Y, Li Z, Qiu G, Yin Z, Xie X, Wang X, Chen W, Zhou L, Wang X, Li Y, Chen H, Gao L, Lu X, Wu T, Wang H, Niu J, Xu G. *A Large-scale, multicenter serum metabolite biomarker identification study for the early detection of hepatocellular carcinoma*. *Hepatology* (2018) Jun 67(2):662-765. (并列第一作者)
16. Ouyang Y, Tong H, Luo P, Kong H, Xu Z, Yin P*, Xu G*. *A high throughput metabolomics method and its application in female serum samples in a normal menstrual cycle based on liquid chromatography-mass spectrometry*. *Talanta.* (2018) Aug 1;185:483-490. (通讯作者)
17. Su B, Luo P, Yang Z, Yu P, Li Z, Yin P*, Zhou L, Fan J*, Huang X, Lin X*, Qiao Y, Xu G. *A novel analysis method for biomarker identification based on horizontal relationship: identifying potential biomarkers from large-scale hepatocellular carcinoma metabolomics data*. *Anal Bioanal Chem,* 2019 Sep; 411(24):6377-6386.(通讯)
18. Zhu B#, Yin P#, Ma Z#, Ma Y, Zhang H, Kong H, Zhu Y*. *Characteristics of bile acids metabolism profile in the second and third trimesters of normal pregnancy*. *Metabolism.* 2019 Jun; 95:77-83.(并列第一作者)
19. Dai W, Lou N, Xie D, Hu Z, Song H, Lu M, Shang D, Wu W, Peng J, Yin P*, Lin Z*. *N-Ethyl-2-Pyrrolidinone-Substituted Flavan-3-Ols with Anti-inflammatory Activity in Lipopolysaccharide-Stimulated Macrophages Are Storage-Related Marker Compounds for Green Tea*. *J Agric Food Chem.* (2020);68(43):12164-12172.(通讯作者)
20. Deng D, Pan C, Wu Z, Sun Y, Liu C, Xiang H, Yin P, Shang D *An Integrated Metabolomic Study of Osteoporosis: Discovery and Quantification of Hyocholic Acids as Candidate Markers*. *Front Pharmacol.* 2021 Aug 6;12:725341. (通讯作者)
21. Liu C, Li R, Liu Y, Li Z, Sun Y, Yin P, Huang R. *Characteristics of Blood Metabolic Profile in Coronary Heart Disease, Dilated Cardiomyopathy and Valvular Heart Disease Induced Heart Failure*. *Front Cardiovasc Med.* 2021 Jan 20;7:622236. *Front Cardiovasc Med.* 2021 Jan 20;7:622236. (通讯作者)

论著

1. Yin P., Xu G. (2012) Metabonomics of Hepatocellular Carcinoma. Primary Liver Cancer, pp. 155-177, Springer.
2. 尹沛源, 第 12 章 代谢组学在营养学研究中的应用, 在《代谢组学——方法与应用》(许国旺 等著), 科学出版社, 2008, 北京, P313-325.
3. Yin P., Zhou L, Zhao X, Xu G. (2015), Sample collection and preparation of biofluids and extracts for liquid chromatography-mass spectrometry. Methods in Molecular Biology: Metabonomics, Volume 1277, pp 51-59.

主要在研项目

1. 卵巢癌临床关键问题导向的诊疗标志物验证及应用研究, (国家重点研发计划项目, 2016YFC1303101, 2016-2020), 任务负责人
2. 复杂生物体系中关键功能代谢物筛选的新方法、新技术研究(重点基金, 批准号 21435006, 2015-2019), 参加
3. 应用于临床的代谢组学技术研发 (辽宁省重点研发计划, 2018225054, 2018-2020) 主持
4. 基于流动进样-质谱的高通量细胞代谢组分析方法的研究 (国家自然科学基金, 21205114, 2013-2015), 项目负责人
5. 病毒性肝炎相关肝癌发生发展的代谢特征和个体化用药研究 (国家科技重大专项 2012ZX10002-011, 2012-2015), 研究骨干, 学术秘书
6. 病毒性肝炎相关肝癌代谢紊乱的机制和用药指导研究 (国家科技重大专项, 2008ZX10002-019, 2008-2010), 参加
7. 低丰度重要代谢物的 LC-MS 分析(国家自然科学基金, 面上基金, 批准号 21175132, 2012-2015)
8. 中德合作发展全脂及代谢组学平台用以新代谢生物标志物的鉴定及其功能表征 (国家自然科学基金 国际合作项目, 批准号: GZ753, 2012-2015)
9. 胰腺炎琥珀酸代谢紊乱所致骨质疏松的发病机理及茵陈蒿汤的干预作用研究, (科技部, 政府间国际科技创新合作重点专项, 2018YFE0195200,) 2020-01 至 2022-12, 300 万元, 结题, 参与