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学术任职:

- 1.担任SCI期刊Chinese Chemical Letters (影响因子: 4.632) 编委
- 2.担任Frontiers旗下期刊Frontiers in Bioengineering and Biotechnology专刊 (影响因子3.644) 的客座编辑以及多个SCI权威期刊审稿人。
- 3.国家自然科学基金评审专家; 广东省自然科学基金评审专家
- 4.广东省肿瘤康复专业委员会常务委员、创始会员
- 5.广东省健康管理学会食品安全与营养健康专业委员会常务委员
- 6.中国营养学会特殊营养分会委员
- 7.广东食品学会青年委员
- 8.广东营养学会青年委员

最高学历:

博士研究生

所属科室:

南方医科大学公共卫生学院营养与食品卫生学系

研究方向:

营养活性物质的构效关系及其在慢性病防治方面的研究

科研项目:

- 1.国家自然科学基金一面上项目: 基于TFEB介导的线粒体自噬-炎症小体-细胞焦亡途径探讨蜜橘黄酮预防动脉粥样硬化作用及其机制, 经费: 55万元 在研
- 主持**
- 2.广东省高水平大学建设-高层次人才启动项目, 经费: 100万元 结题**主持**
 - 3.广东省自然科学基金一面上项目: 基于TFEB介导的肝巨噬细胞自噬-炎症反应途径探究蜜橘黄酮调控非酒精性脂肪肝脂质代谢的作用及其相关机制, 经费: 10万元 在研**主持**
 - 4.广东省自然科学基金: 金针菇多糖自组装纳米凝乳的绿色制备及其对小鼠肠道粘膜免疫系统调节机理的研究, 经费: 10万元 在研**主持**
 - 5.创新驱动培育项目: 一种具有治疗炎症性肠炎的新型金针菇富硒多糖, 经费: 6万元 在研**主持**
 - 6.广东省普通高校特色创新类项目: 一种具有治疗炎症性肠炎的新型金针菇富硒多糖的研发, 经费: 6万元 在研 **主持**
 - 7.广东省重点研发项目: 食用色素及包装材料的危害识别与风险评价技术(子项目), 经费: 720万元 在研 **本人为子项目第二负责人**
- 成果奖励:**

专利/Patents:

1. PCT国际专利：一种竹荪多糖-锌螯合物的制备方法及其应用 (METHOD FOR PREPARING BAMBOO FUNGUS POLYSACCHARIDE-ZINC CHELATE AND USE THEREOF) (国际公布号: WO2016041258)
2. PCT国际专利：一种具有抗病毒和免疫活性的亚麻籽多糖的制备及其应用 (PREPARATION METHOD AND USE OF LINSEED POLYSACCHARIDE HAVING ANTIVIRAL AND IMMUNOLOGICAL ACTIVITY) (国际公布号: WO2017005134)
- 3.一种具有抗肿瘤活性的核桃多肽纳米硒的制备方法 (专利号: CN104174008 B)
- 4.一种苯丙氨酸乳酸酯的制备方法 (专利号: CN 104151181 B)
- 5.一种具有抗肿瘤活性的竹荪多糖-锌螯合物的制备方法及其应用 (专利号: CN 104277134 B)
- 6.一种具有抗肿瘤活性的核桃多肽-锌螯合物的制备方法 (专利号: CN104152520 B)
- 7.一种具有免疫活性的新型红托竹荪多糖及其制备方法和应用 (专利号: CN104262500 B)
- 8.一种具有抗病毒和免疫活性的亚麻籽多糖的制备及其应用 (专利号: CN105037573 B)
- 9.一种具有抗病毒和增强免疫活性的侧柏叶多糖及其制备方法和应用 (专利号: CN 105061615 B)

代表论文:

近5年以**第一或通讯作者**身份发表SCI论文**34**篇。总影响因子为137.6，单篇影响因子5.0以上的有10篇。15篇发表在生物医学或食品领域SCI一区期刊(中科院分区)；6篇为SCI二区期刊。2篇文章入选ESI高被引用论文；1篇文章入期刊封面文章；

1. Ren JY, Hou CL, Shi CC, Lin ZH, **Liao WZ***, Yuan ED*. A polysaccharide isolated and purified from *Platyclusus orientalis* (L.) Franco leaves, characterization, bioactivity and its regulation on macrophage polarization. **Carbohydrate Polymers**. 2019(213), 276–285. <https://doi.org/10.1016/j.carbpol.2019.03.003>. (共同通讯作者, **SCI一区**, IF=7.182)
2. Zhang TT, Li W, Meng GM, Wang P, **Liao WZ***. Strategies for transporting nanoparticles across the blood-brain barrier, **Biomaterials Science**. 2016, 4, (2), 219-29. (通讯作者, **SCI二区**, IF=6.183)
3. Yu ZQ, Cai Z, Chen QL, Liu MH, Ye L, Ren JY, **Liao WZ***, Liu SW*. Engineering β -sheet peptide assemblies for biomedical applications. **Biomaterials Science**. 2016, 4, 365–374. (共同通讯作者, **SCI二区**, IF=6.183)
4. Yang L, Li W, Kirberger M, **Liao WZ***, Ren JY*. Design of nanomaterial based systems for novel vaccine development. **Biomaterials Science**. 2016, 4(5): 785-802. (共同通讯作者, **SCI二区**, IF=6.183)
5. **Liao WZ***, Li W#, Zhang TT*, Kirberger M, Liu J, Wang P, Chen W, Wang Y*. Powering Up the Molecular Therapy of RNA Interference by Novel Nanoparticles. **Biomaterials Science**. 2016, 4, 1051-1061 (第一作者, **SCI二区**, IF=6.183, 入选封面文章)
6. **Liao WZ***, Chen L Y#, Ma X, Jiao R, Li X, Wang Y*. Protective effects of kaempferol against reactive oxygen species-induced hemolysis and its antiproliferative activity on human cancer cells. **European Journal of Medicinal Chemistry**, 2016, 114: 24-32. (第一作者, **SCI一区TOP**, IF=5.572)
7. Cao Y, Li ZY, Mao LZ, Cao HH, Kong JJ, Yu B, Yu CM*, **Liao WZ***. The use of proteomic technologies to study molecular mechanisms of multidrug resistance in cancer. **European Journal of Medicinal Chemistry**, 2019, Jan 15; 162: 423-434. (共同通讯作者, **SCI一区TOP**, IF= 5.572)
8. Bai ZM#, Wei J#, Yu CM*, Han XS, Qin XF, Zhang CW, **Liao WZ***, Lil*, Huang W. Non-viral nanocarriers for intracellular delivery of microRNA therapeutics. **Journal of Materials Chemistry B**. 2019, 7, 1209-1225. (共同通讯作者, **SCI三区**, IF=5.344)
9. Deng YD#, Yang XS#, Zhang XD, Cao HH, Mao LZ, Yuan MM*, **Liao WZ***. Novel fenugreek gum-cellulose composite hydrogel with wound healing synergism: facile preparation, characterization and wound healing activity evaluation. **International Journal of Biological Macromolecules**. 2020. (共同通讯作者, **SCI一区TOP**, IF= 5.162)
10. Zhang RJ#, Yuan SJ#, Ye JF, Wang XD, Zhang XD, Shen J, Yuan MM* and **Liao WZ***. Polysaccharide from *flammulina velutipes* improves colitis via regulation of colonic microbial dysbiosis and inflammatory responses. **International Journal of Biological Macromolecules**. 2020. 149, 1252-1261. (共同通讯作者, **SCI一区TOP**, IF= 5.162)
11. **Liao WZ**, Lai T, Dong CB, Yu Z*, Ren JY*. Novel Walnut Peptide–Selenium Hybrids with Enhanced Anticancer Synergism: Facile synthesis and mechanistic investigation of anticancer activity. **International Journal of Nanomedicine**, 2016; 11: 1305–1321. (第一作者, **SCI二区**, IF= 5.115)
12. Deng YD#, Chen JY#, Huang JY, Yang XS, Zhang XD, Yuan SJ, **Liao WZ***. Preparation and characterization of cellulose/flaxseed gum composite hydrogel and its hemostatic and wound healing functions evaluation. **Cellulose**. 2020. 27(7), 3971-3988. (**SCI一区TOP**, IF= 4.21)
13. **Liao WZ**, Liu ZJ, Zhang TT, Sun SX, Ye JF, Li ZY, Mao LZ, Ren JY. Enhancement of Anti-Inflammatory Properties of Nobiletin in Macrophages by a Nano-Emulsion Preparation. **Journal of agricultural and food chemistry**. 2017, 66(1): 91-98. (第一作者, **SCI一区TOP**, IF=4.192)
14. **Liao WZ**, Lu YJ, Fu JN, Ning ZX, Yang JG*, Ren JY*. Preparation and Characterization of *Dictyophora indusiata* Polysaccharide-Zinc Complex and Its Augmented Antiproliferative Activity on Human Cancer Cells. **Journal of Agricultural and Food Chemistry**, 2015, 63, 6525–6534. (第一作者, **SCI一区Top**, IF= 4.192)
15. Lin ZH, **Liao WZ***, Ren JY*. Physicochemical Characterization of a Polysaccharide Fraction from *Platyclusus orientalis* (L.) Franco and Its Macrophage Immunomodulatory and Anti-Hepatitis B Virus Activities. **Journal of agricultural and food chemistry**. 2016, 64, (29), 5813-23. (共同通讯作者, **SCI一区Top**, IF=4.192)
16. Yuan MM, Meng W, **Liao WZ***, Lian S*. Andrographolide Antagonizes TNF- α -Induced IL-8 via Inhibition of NADPH Oxidase/ROS/NF- κ B and Src/MAPKs/AP-1 Axis in Human Colorectal Cancer HCT116 Cells. **Journal of agricultural and food chemistry**, 2018, 66(20), 5139-5148. (共同通讯作者, **SCI一区TOP**, IF=4.192)
17. Xia Y, Yuan M, Li S, Thuan UT, Nguyen TT, Kang TW, **Liao WZ***, Lian S*, Jung DY*. Apigenin suppresses IL-1 β -induced expression of urokinase-type plasminogen activator receptor by inhibiting MAPK-mediated AP-1 and NF- κ B signaling in human bladder cancer T24 cells. **Journal of agricultural and food chemistry**. 2018, 66 (29), pp 7663-7673 (共同通讯作者, **SCI一区TOP**, IF= 4.192)
18. Zhang RJ#, Chen J#, Mao LZ, Guo YJ, Hao YT, Deng YD, Han X, Li QJ*, **Liao WZ***, Yuan MM*. Nobiletin Triggers Reactive Oxygen Species-Mediated Pyroptosis through Regulating Autophagy in Ovarian Cancer Cells. **Journal of agricultural and food chemistry**, 2020, 68(5) 1326–1336. (共同通讯作者, **SCI一区TOP**, IF= 4.192)

19. **Liao WZ**, Ning ZX, Chen LY, Wei QY, Yuan ED, Yang JG*, Ren JY*. Intracellular Antioxidant Detoxifying Effects of Diosmetin on 2,2-Azobis (2-amidinopropane) Dihydrochloride (AAPH)-Induced Oxidative Stress through Inhibition of Reactive Oxygen Species Generation. **Journal of Agricultural and Food Chemistry**, 2014, 62: 8648-8654. (第一作者, SCI一区Top, IF= 4.192, ★ESI高被引论文, TOP 1% Paper)
20. **Liao WZ**, Luo Z, Liu D, Ning ZX, Yang JG*, Ren JY*. Structure Characterization of a Novel Polysaccharide from *Dictyophora indusiata* and Its Macrophage Immunomodulatory Activities. **Journal of Agricultural and Food Chemistry**, 2015, 63: 535-544. (第一作者, SCI一区Top, IF= 4.192, ★ESI高被引论文, TOP 1% Paper)
21. **Liao WZ**#, Lai T#, Chen LY#, Fu JN, Sreeprasad TS, Yu Z*, Ren JY*#. Synthesis and Characterization of Walnut Peptides-Zinc Complex and Its Antiproliferative Ability against Human Breast Carcinoma Cells through Induction of Apoptosis. **Journal of Agricultural and Food Chemistry**, 2016, 64: 1509-1519. (第一作者, SCI一区Top, IF=4.192, ★ESI高被引论文)
22. Li Q, Li W, Xu J, Ning Z, Ren J, Liao WZ*. Structural Design and Physicochemical Foundations of Hydrogels for Biomedical and Pharmaceutical Applications. **Current medicinal chemistry**. (2018) 25: 963. (共同通讯作者, SCI三区, IF=4.184)
23. Ren JY, Zheng YM., Lin ZH, Han X, **Liao WZ***. Macroporous resin purification and characterization of flavonoids from *Platycladus orientalis* (L.) Franco and their effects on macrophage inflammatory response. **Food Function**. 2017, 8, (1), 86-95. (通讯作者, SCI二区, IF=4.171)
24. **Liao WZ**, Yu Z, Lin Z, Lei Z, Ning Z, Regenstein JM, Yang JG*, Ren J*. Biofunctionalization of Selenium Nanoparticle with *Dictyophora indusiata* Polysaccharide and Its Antiproliferative Activity through Death-Receptor and Mitochondria-Mediated Apoptotic Pathways. **Scientific Reports**, 2015, 5: 18629.10. (第一作者, SCI三区, IF= 3.998)
25. **Liao WZ**, Ning ZX, Ma L, Yin X, Wei QY, Yuan ED, Yang JG*, Ren JY*. Recrystallization of Dihydromyricetin from *Ampelopsis grossedentata* and Its Anti-Oxidant Activity Evaluation. **Rejuvenation Research**, 2014, 17 (5) : 422-429. (第一作者, SCI四区, IF= 3.811)
26. Deng YD#, Zhang XD#, Shen HB, He QN, Wu ZJ, **Liao WZ***, Yuan MM*. Application of the Nano-Drug Delivery System in Treatment of Cardiovascular Diseases. **Frontiers in Bioengineering and Biotechnology**. 2020.31(7), 489. (共同通讯作者, SCI三区, IF= 3.644)
27. Liao XS#, Yang XS#, Deng H, Hao YT, Mao LZ, Zhang RJ, **Liao WZ*** and Yuan MM* Injectable Hydrogel-Based Nanocomposites for Cardiovascular Diseases. **Frontiers in Bioengineering and Biotechnology**. 2020. 8, 251. (共同通讯作者, SCI三区, IF= 3.644)
28. Yuan MM#, Song XX#, Lv W#, Xin Q, Wang L, Gao Q, Zhang GC, **Liao WZ***, Lian S*, Jing T*. Effect of anacardic acid against echinococcosis through inhibition of VEGF-induced angiogenesis. **Veterinary Research**. (2019) 50: 3. (共同通讯作者, SCI一区TOP, IF=3.357)
29. **Liao WZ**, Zhang TT, Gao LQ, Lee SS, Xu J, Zhang H, Yang ZG, Liu ZY*, Li W*. Integration of Novel Materials and Advanced 'Omics' Technologies into New Vaccine Design. **Current Topics in Medicinal Chemistry**, (2017) 17: 2286. (第一作者, SCI三区, IF=3.218)
30. **Liao WZ**, Gu LJ, Zhu ZS, Zheng YM, Zhao MM, Liang M, Ren JY*. Analysis of quantitative structure-activity relationship of glutathione-derived peptides based on different free radical scavenging assays. **MedChemComm**, 2016, 7, 2083-2093. (第一作者, SCI四区, IF=2.807)
31. Cao Y*, Gong Y, **Liao WZ***, Luo Y, Wu C, Wang M, Yang Q. A review of cardiovascular toxicity of TiO₂, ZnO and Ag nanoparticles (NPs). **BioMetals**, 2018, 1- 20. (共同通讯作者, SCI四区, IF= 2.479)
32. Wang K#, Hao YT#, Wang YN, Chen JY, Mao LZ, Deng YD, Chen JL, Yuan SJ, Zhang TT*, Ren JY*, **Liao WZ***. Functional hydrogels and their application in drug delivery, biosensors, and tissue engineering. **International Journal of Polymer Science**. 2019, 1-14. <https://doi.org/10.1155/2019/3160732>. (共同通讯作者, SCI四区, IF=1.646)
33. Ye JF#, Wang XD#, Wang K, Deng YD, Yang YC, Ali R, Chen FL, Wu ZJ, **Liao WZ***, Mao LM*. A novel polysaccharide isolated from *Flammulina velutipes*, characterization, macrophage immunomodulatory activities and its impact on gut microbiota in rats. **Journal of Animal Physiology and Animal Nutrition**. 2020. 104(2), 735-748. (共同通讯作者, SCI三区, IF=1.597)
34. **Liao WZ**, Chen LY, Yu B, Lei Z, Wu X, Yang JG*, Ren JY*. Cell-based evaluation of a novel *Dictyophora indusiata* polysaccharide against oxidative induced erythrocyte hemolysis. **Cellular and Molecular Biology**. 2016, 62 (1): 38-44. (第一作者, SCI四区, IF=1.270)