

- [10] Yang S, Huang J, Tan W, et al. Xiaoyankangjun tablet alleviates dextran sulfate sodium-induced colitis in mice by regulating gut microbiota and JAK2/STAT3 pathway [J]. Nat Prod Bioprospect, 2024, 14(1):44.
- [11] Yuan F, Peng W, Yang Y, et al. Endothelial progenitor cell-derived exosomes promote anti-inflammatory macrophages via SOCS3/JAK2/STAT3 axis and improve the outcome of spinal cord injury[J]. J Neuroinflammation, 2023, 20(1):156.
- [12] Lin CC, Chen DY, Tang KT, et al. Inhibitory effects of propofol on Th17 cell differentiation [J]. Immunopharmacol Immunotoxicol, 2017, 39(4):211-218.
- [13] 徐思源, 吕靖, 魏琼, 等. 丙泊酚对孕鼠妊娠晚期睡眠剥夺后子代大鼠海马区 JAK2/STAT3 信号通路及神经炎症的影响[J]. 中国实用医药, 2022, 17(13):187-191.
- [14] 刘娜, 黄培培, 杨静, 等. 仙茅苷对脊髓损伤大鼠的神经保护作用研究[J]. 中国药房, 2024, 35(12):1469-1475.
- [15] 郭永娟, 张丽, 陆化梅. 七氟醚复合丙泊酚对脊髓骨折大鼠疼痛递质、神经元活性的影响[J]. 中国组织工程研究, 2023, 27(36):5850-5855.
- [16] Zipser CM, Cragg JJ, Guest JD, et al. Cell-based and stem-cell-based treatments for spinal cord injury: evidence from clinical trials[J]. Lancet Neurol, 2022, 21(7):659-670.
- [17] 肖志博, 符少川, 谢海, 等. 基于 UCP2 信号研究丙泊酚对脑缺血/再灌注大鼠小胶质细胞极化的影响[J]. 中国老年学杂志, 2024, 44(1):104-109.
- [18] 祝君, 周楠, 李德明. 丙泊酚后处理对大鼠局灶性脑缺血再灌注损伤的改善作用及其机制[J]. 吉林大学学报(医学版), 2023, 49(1):46-54.
- [19] Zhou Y, Bai Y, Zhang P, et al. Propofol alleviates spinal cord ischemia-reperfusion injury by preserving PI3K/AKT/GIT1 axis [J]. J Investig Med, 2024, 72(7):705-714.
- [20] 汪俊宇, 庞日朝, 王文春, 等. 脊髓损伤患者肠道菌群属水平的特征及意义[J]. 中国康复理论与实践, 2020, 26(4):393-399.
- [21] 李凤至, 程晓馨. 肠道菌群与脊髓损伤并发症[J]. 中国微生态学杂志, 2020, 32(6):741-745.
- [22] Jing Y, Yu Y, Bai F, et al. Effect of fecal microbiota transplantation on neurological restoration in a spinal cord injury mouse model: involvement of brain-gut axis[J]. Microbiome, 2021, 9(1):59.
- [23] 王天雨, 魏炜, 杨志新, 等. 艾灸“相对穴”对脊髓损伤大鼠运动能力和其肠道菌群的影响[J]. 中国微生态学杂志, 2022, 34(11):1283-1288.
- [24] 刘明富, 刘槲, 宁宇, 等. 粪菌移植疗法对大鼠脊髓损伤后的作用研究[J]. 广西医科大学学报, 2021, 38(12):2240-2245.
- [25] Lee JY, Park CS, Seo KJ, et al. IL-6/JAK2/STAT3 axis mediates neuropathic pain by regulating astrocyte and microglia activation after spinal cord injury[J]. Exp Neurol, 2023, 370:114576.
- [26] Xiao S, Zhang Y, Liu Z, et al. Alpinetin inhibits neuroinflammation and neuronal apoptosis via targeting the JAK2/STAT3 signaling pathway in spinal cord injury[J]. CNS Neurosci Ther, 2023, 29(4):1094-1108.
- [27] Tang X, Li X, Wang Y, et al. Butyric acid increases the therapeutic effect of EHLJ7 on ulcerative colitis by inhibiting JAK2/STAT3/SOCS1 signaling pathway[J]. Front Pharmacol, 2020, 10:1553.
- 【收稿日期】 2024-12-20 【修回日期】 2025-03-10
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- [5] Grezzi L, Martinez YE, Barrios AA, et al. Characterization of the immunosuppressive environment induced by larval *Echinococcus granulosus* during chronic experimental infection [J]. Infect Immun, 2024, 92(2):e0027623- e0027623.
- [6] Radtke AJ, Chu CJ, Yaniv Z, et al. IBEX: an iterative immunolabeling and chemical bleaching method for high-content imaging of diverse tissues[J]. Nat Protoc, 2022, 17(2):378-401.
- [7] 冶赓博, 陈功富, 崔紫烟, 等. 多房棘球蚴源性外泌体对巨噬细胞极化的影响[J]. 临床肝胆病杂志, 2023, 39(4):876-884.
- [8] 马洋洋. miR-133a 在泡球蚴感染所致肝细胞损伤中的作用[D]. 乌鲁木齐:新疆大学, 2018.
- [9] 王立群, 吴易璇, 蒲桂婷, 等. 敲低多房棘球蚴 let-7-5p 可抑制 BALB/c 小鼠腹腔巨噬细胞极化和虫体生长[J]. 畜牧兽医学报, 2024, 55(6):2619-2628.
- [10] Zheng Y, Guo X, He W, et al. Effects of *Echinococcus multilocularis* miR-71 mimics on murine macrophage RAW264.7 cells[J]. Inter Immun, 2016, 3:4259-4262.
- [11] 王立群. 豆状囊尾蚴外泌体的特征及其对巨噬细胞极化的调节机制[D]. 北京:中国农业科学院, 2020.
- [12] Emerson LE, Gioseffi A, Barker H, et al. *Leishmania* infection-derived extracellular vesicles drive transcription of genes involved in M2 polarization [J]. Front Cell Infect Microbiol, 2022; 12934611-934611.
- [13] Saikat M, Soubhik G, Sriparna B, et al. Administration of soluble gp130Fc disrupts M-1 macrophage polarization, dendritic cell activation, MDSC expansion and Th-17 induction during experimental cerebral malaria [J]. Inter Immun, 2023, 123:110671-110671.
- [14] 凌薇. 弓形虫外泌体对巨噬细胞调节作用及其机制研究[D]. 镇江:江苏大学, 2020.
- [15] Li QY, Wang SC, Zhou RJ, et al. Macrophage-mediated mechanisms of lung injury in the sensitization reaction to *Echinococcus granulosus*[J]. Front Immun, 2024, 15:1388120-1388120.
- [16] 冯叶叶, 许军英, 逮君霞, 等. 细粒棘球蚴通过 STAT6 促进巨噬细胞向 M2 型极化[J]. 中国免疫学杂志, 2022, 38(10):1158-1163.
- [17] Hui W, Qian Y, Mingkun W, et al. Hepatic macrophages play critical roles in the establishment and growth of hydatid cysts in the liver during *Echinococcus granulosus* sensu stricto infection [J]. PLoS Negl Trop Dis, 2023, 17(11):e0011746-e0011746.
- [18] 周璇, 侯秋莲, 李斌, 等. 细粒棘球蚴微囊对小鼠腹腔巨噬细胞活化及炎症因子水平的影响[J]. 中国病原生物学杂志, 2021, 16(4):411-418.
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