

附表 6:

2023 年度海南省科学技术奖提名公示内容

公示单位(公章):		填表日期:2024年 / 月 / 0 日
项目名称	红斑狼疮病因和诊疗技术创新与应用研究	
提名奖项/等级	海南省科学技术进步奖一等奖	
提名单位	海南省卫生健康委员会	
提名意见	<p>本研究发现 1,25 (OH) 2D3 和 VDR 可以抑制 CD4 + T 淋巴细胞的活化, 并通过抑制 PKC δ /ERK 信号通路和促进 T 细胞 CD11a, CD70 和 CD40L 的 DNA 甲基化来抑制 SLE 的免疫应答及自身免疫反应的关键环节和分子机制。海南省第五人民医院系该项目主要完成单位之一, 该课题是国内外首次探讨 1,25 (OH) 2D3 和 VDR 可以抑制 CD4+T 细胞的活化, 并通过抑制 PKC δ /ERK 途径和促进 T 细胞 CD11a, CD70 和 CD40L 的 DNA 甲基化来抑制 SLE、类风湿性关节炎 (RA) 的免疫应答。也是首次发现 SLE 患者 T 细胞的 CD11a, CD70 和 CD40L 出现 DNA 甲基化的的机制与 1,25(OH) 2D3/VDR 活性及 PKC δ 和 ERK1/2 通路有关, 立题新颖, 为临床诊疗提供新的思路。本课题研究 SLE 的病因与临床, 将实验与临床相结合, 使实验结果在临床上可以得到应用及推广, 应用前景广阔。本项目实施以来, 总计发表学术论文 147 篇, 总影响因子达 362.43 分, 获市级 (含) 以上奖励 3 项等。项目获国家自然科学基金等资助。共培养硕士 8 人, 多次在国内外的学术会议进行演讲, 取得显著社会效益。</p>	
项目简介	<p>红斑狼疮是一种严重危害人类健康的自身免疫性疾病, 可损害多个器官、系统, 病程迁延不愈, 由于病因复杂、发病机制尚不清楚, 临床诊治水平的提升长期以来受到限制。所以红斑狼疮</p>	



一直是世界性医学难题，也是国内外众多医学科学家们努力的方向。本研究探讨 1,25(OH)2D3/VDR 活性降低导致 SLE CD4+T 细胞发生 PKC δ /ERK 通路缺陷及自身免疫反应的关键环节和分子机制，为研究 VDR、1,25(OH)2D3 在 SLE 患者中免疫调节作用的发挥提供新思路，可能为 SLE 的致病机理提供新依据和为临床上 SLE 治疗提供新思路与药物治疗靶点。

创新点一. 对活性维生素 D 在 SLE 中的免疫应答作用进一步探讨

这是国内外首次探讨 1,25(OH)2D3 和 VDR 可以抑制 CD4+T 细胞的活化，并通过抑制 PKC δ /ERK 途径和促进 T 细胞 CD11a, CD70 和 CD40L 的 DNA 甲基化来抑制 SLE 和 RA 的免疫应答。也是首次发现 SLE 患者 T 细胞的 CD11a, CD70 和 CD40L 出现 DNA 甲基化的机制与 1,25(OH)2D3/VDR 活性及 PKC δ 和 ERK1/2 通路有关，立题新颖，为临床诊疗提供新的思路。

创新点二. 将实验与临床相结合，使实验结果在临床上可以得到应用及推广

(1) 检测 CD11a, CD70, CD40L 分子及 CD11a, CD70, CD40L 基因甲基化表达水平的高低，PKC δ 、ERK1/2 及 p-ERK1/2 水平高低，IL-4, IL-10, IL-17 and INF- γ 等炎症因子水平高低，可能成为 SLE 新的实验室指标。(2) 阻断 CD11a, CD70, CD40L 分子过表达，提高 CD11a, CD70, CD40L 基因甲基化表达水平，或抑制 PKC δ /ERK 信号通路，可能成为从分子和基因水平治疗 LN 新的手段。(3) 检测 VDR 的表达，可能成为预测 LN 出现肾功能不全的指标。(4) 补充 1,25(OH)2D3、VDR 可能治疗 SLE 的重要方案。(5) 肾脏组织的免疫荧光可能成为诊断 LN 的重要手段。

创新点三. 多维度促进活性维生素 D 在 SLE 中临床应用与提升社会效益

本项目实施以来，总计发表学术论文 147 篇，总影响因子达 362.43 分，获市级（含）以上奖励 3 项等。项目获国家自然科学基金等资助。共培养硕士 8 人，多次在国内外的学术会议进行演讲，取



得显著社会经济效益。

提名书
相关内容

代表性论文(专著)列表:

一、代表性论文

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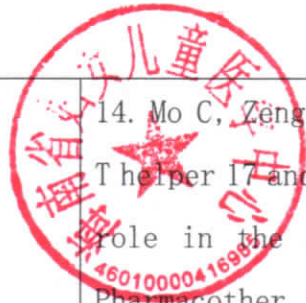
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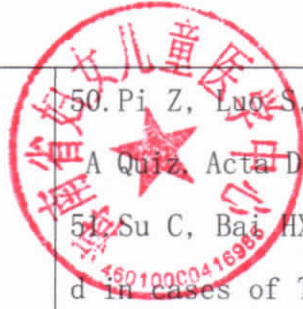
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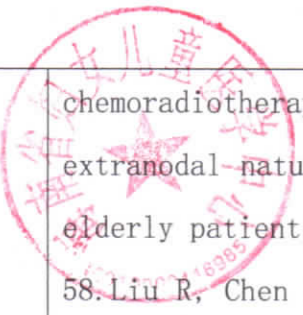
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二、软件著作

1. 上海康水医疗科技有限公司, 王朝昕. 《人工智能大数据三高



	<p>健康风险预测软件》(2020SR0852721, 软著登字第 5731417 号);</p> <p>2. 上海康本医疗科技有限公司, 王朝昕. 《人体健康风险预测模型平台》(2020SR0855978, 软著登字第 5734674 号);</p> <p>3. 尚伟. 临床技能学. 北京: 科学出版社, 2022. 2.</p> <p>主要知识产权证明目录:</p> <p>1. 发明专利《一种抗氧化药物》2007 年 8 月获发明专利授权(专利号: ZL 2005 1 0031914. 5);</p> <p>2. 发明专利《儿茶素双层微胶囊制备方法》2006 年 3 月已公开(公开号: CN 1739497A);</p> <p>3. 《一种包含 E4BP4 基因的慢病毒重组载体及其制备方法和应用》2020 年 11 月已公开(公开号: CN 109266683 B)</p> <p>4. 发明专利《小白蛋白的抑制剂在制备预防治疗肥胖以及肥胖导致的疾病产品中的用途》2022 年 12 月已公开(公开号: CN 112472790 B)。</p>
主要完成人	<p>丁艳, 排名 1, 主任医师, 海南省第五人民医院;</p> <p>何小解, 排名 2, 主任技师, 中南大学湘雅二医院;</p> <p>王朝昕, 排名 3, 教授, 海南医学院;</p> <p>陆前进, 排名 4, 主任医师, 中南大学湘雅二医院;</p> <p>肖嵘, 排名 5, 主任医师, 中南大学湘雅二医院;</p> <p>向伟, 排名 6, 主任医师, 海南省妇女儿童医学中心;</p> <p>徐腾蛟, 排名 7, 住院医师, 海南省第五人民医院;</p> <p>袁玲, 排名 8, 无, 海南医学院。</p>
主要完成单位	<p>1.单位名称: 海南省第五人民医院</p> <p>2.单位名称: 中南大学湘雅二医院</p> <p>3.单位名称: 海南医学院</p> <p>4.单位名称: 海南省妇女儿童医学中心</p>

说明: 国际科学技术合作奖可不用公示, 其余奖项必须公示至少 7 个工作日