



## AI醫學資訊與臨床決策輔助平臺

參考資料來源: 台北榮總圖書館

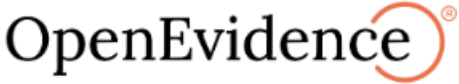
# Introduction

- 自Mayo Clinic Platform Accelerate推出
- 結合醫學領域與大型語言模型
- 第一個USMLE成績超過90%的AI
- 對話式搜尋，易於理解的QA介面
- 彙集、綜整的醫學參考資訊，附引用資料並提供APP

## 全球領先的 AI 醫療搜尋平台

- 這是一個 AI 驅動的醫療搜尋平台。
- 整合、綜合和視覺化臨床相關證據。
- 以易於理解的形式呈現資訊。
- 目標是改善醫療決策和患者護理。

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## 對話式搜尋: 支援中文問答

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## 每項提問回應係以彙集、綜整內容呈現且附註醫學參考資料來源

What does current research suggest about the role of gut microbiota in autoimmune diseases?

Current research suggests that gut microbiota plays a significant role in the pathogenesis of autoimmune diseases (AIDs). Dysbiosis, or the imbalance of gut microbiota, has been implicated in various AIDs, including rheumatoid arthritis, type 1 diabetes, multiple sclerosis, and systemic lupus erythematosus.<sup>[1-3]</sup>

Mechanisms by which gut microbiota influence autoimmune responses include modulation of immune cell differentiation, production of microbial metabolites, and molecular mimicry. For instance, gut microbes can affect the differentiation of T cells, including regulatory T cells and effector T cells, which are crucial in maintaining immune homeostasis and preventing autoimmunity.<sup>[4-5]</sup> Additionally, microbial metabolites such as short-chain fatty acids (SCFAs) have been shown to modulate immune responses and are linked to the pathophysiology of several autoimmune disorders.<sup>[6]</sup>

Recent studies have also highlighted the potential of microbiome-based interventions, such as prebiotics, probiotics, and fecal microbiota transplantation (FMT), as therapeutic strategies for AIDs. These interventions aim to restore a healthy microbiota balance and modulate immune responses to alleviate disease symptoms and progression.<sup>[7-8]</sup>

Overall, the gut microbiota's role in autoimmune diseases is multifaceted, involving complex interactions with the host immune system. Further research is needed to fully elucidate these mechanisms and develop effective microbiome-based therapies for AIDs. ■

Ask a follow-up question...

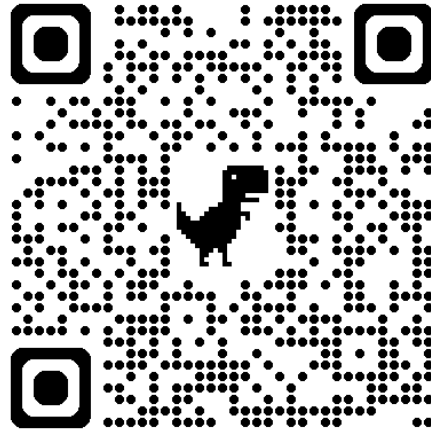


資料來源串接至PubMed註明引用  
原由提供延伸問題深入挖掘

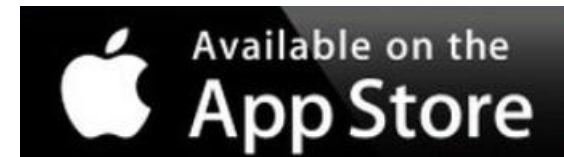
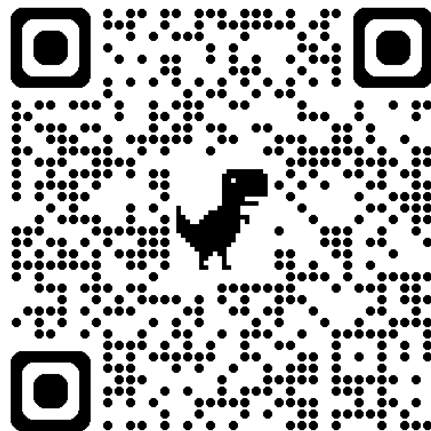
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