

Abstract Submission No.: A-1127

Emerging Trends and Focus of Toll-like Receptor and Kidney Disease: a 20-year Bibliometric Analysis

Xinyao Luo, Ruoxin Xia, Jin Peng, Yupei Li, Baihai Su

Department of Internal Medicine-Nephrology, West China Hospital, Sichuan University, China

Objectives : An increasing number of studies have focused on the role of toll-like receptors (TLRs) in the pathogenesis of kidney diseases and their corresponding therapeutic potential. A comprehensive understanding of the status of this research field is conducive to its development. However, there is no bibliometric analysis in the research field. This study aimed to investigate the hotspots and evolution of TLRs and kidney disease research over the past two decades.

Methods : Publications were collected from the Web of Science Core Collection (WoSCC) using the terms "toll-like receptor" and "kidney disease" (and their synonyms in MeSH). CiteSpace was used to explore publications from January 2000 to June 2023 to visualize the contribution of countries, institutions, journals, and authors and detect the evolution of research focus and emerging trends in this field.

Results : A total of 2187 studies with 76406 references were included in the study. The United States and China are the leading forces among all the countries. The University of Munich is the leading institution, and Hans-Joachim Anders tends to be the most influential expert in this field. PLoS One was the journal with the most publications, and Journal of Immunology was the most co-cited journal. According to the co-citation analysis, candida administration is the latest research hotspot. Additionally, ischemic injury and diabetic nephropathy have been hotspots long since and still have great value. Moreover, using TLR inhibition as a therapeutic strategy for kidney disease is increasingly emphasized.

Conclusions : This study demonstrated a growing understanding of the important role of TLRs in kidney diseases over time. Future research should attach more importance to the identification of novel endogenous ligands for TLRs, which will be critical for the development of TLR inhibition as a viable therapeutic strategy.

Figure 1.png

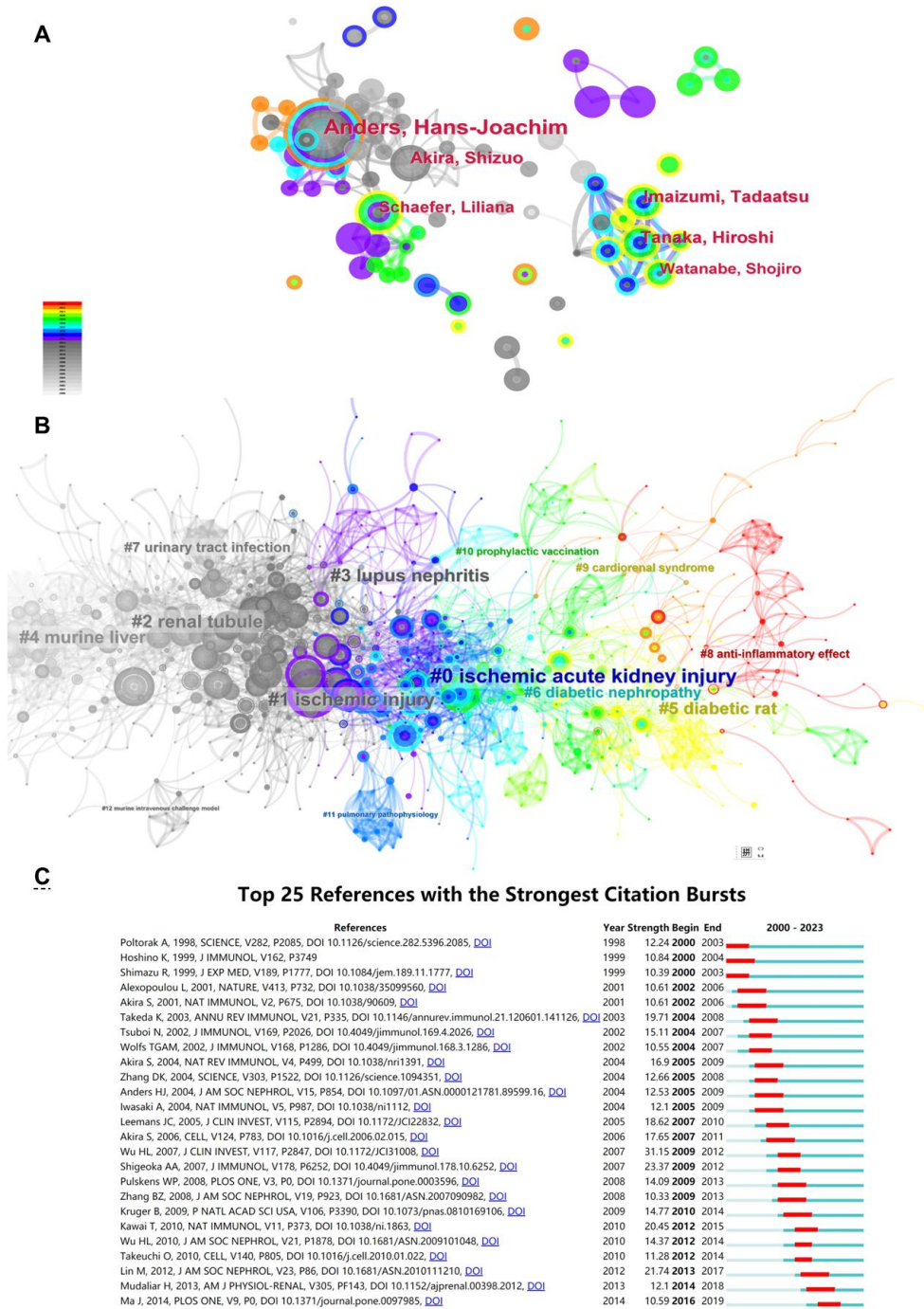
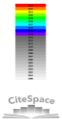
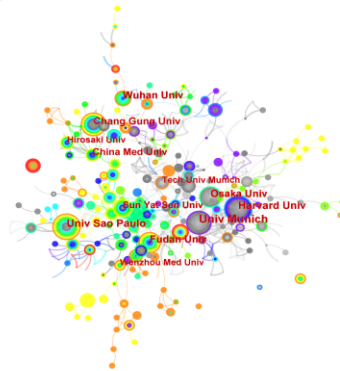
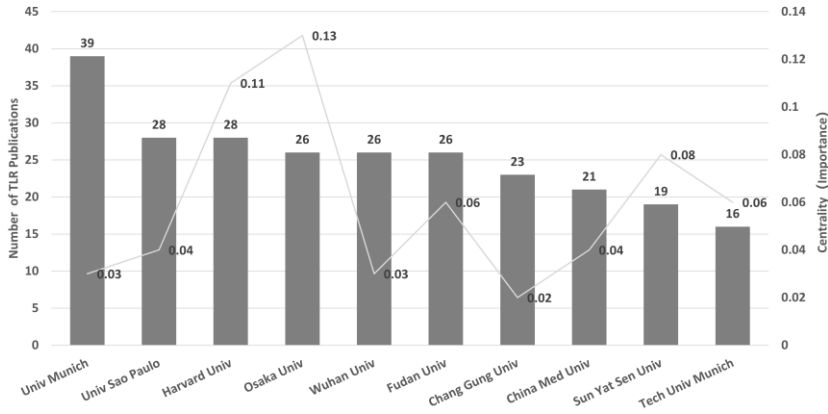


Figure 1.png

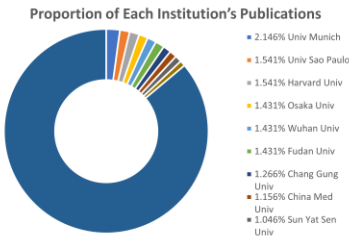
A.
 CiteSpace v. 5.10.R1 (64-bit Advanced)
 Date: 2024-06-20 20:29:09 CST
 File: C:\Users\jshim\Desktop\...
 Timezone: 2000-2023 (GMT+9)
 Network: LRF=1.0, Q=0.95, L=0.1, M=10, LB=1, e=10
 Modularity Q: 0.9521 (Density=0.0048)
 Weighted Mean Silhouette S: 0.9521
 Pruning: None



B.



C.



D.

