

Abstract

Tertiary lymphoid organs (TLOs) are associated with inflammatory reactions in autoimmune diseases or chronic inflammation. These organized T and B cell aggregates are structurally and functionally similar to secondary lymphoid organs (SLOs). TLOs, due to their location in peripheral tissues, enable the immune system to respond more quickly and effectively to antigens and pathogens occurring in the body and to develop adaptive immune response. It is currently debatable whether TLOs have pathogenic or protective functions. This work focuses on the postnatal emergence of these new structures, the so-called neogenesis and interaction of cells, cytokines and chemokines occurring in TLOs. And last but not least, the impact of TLOs on the transplant response.

Keywords:

tertiary lymphoid organs, immune system, inflammatory reaction, lymphoid neogenesis