Asian Transplantation Week 2023

Nov. 15(Wed)~18(Sat), 2023
Conrad Seoul, Korea

Submission No.: PG07-9392
Session : Postgraduate Course 7 (Basic)
Date & Time, Place : November 16 (Thu), 13:00-14:30, Room 6F-1
Session Title : Newly emerging immune cells

Innate Lymphoid Cells (ILCs) and Their Implications in Transplantation

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Innate Lymphoid Cells (ILCs), a relatively recent discovery, have ignited substantial interest among immunologists and researchers due to their pivotal roles in orchestrating innate immune responses. This lecture delves into the multifaceted facets of ILCs and their compelling relevance within the context of transplantation, an immensely important subject in the field of immunology. This lecture commences with a comprehensive examination of ILCs, including ILC1, ILC2, and ILC3. A detailed analysis of their distinct functions and significant contributions to cytokine production will illuminate their integral roles in shaping the broader immune response and influencing processes associated with tissue inflammation and repair. Of central importance is the profound influence of ILCs on transplantation. The intricate mechanisms through which ILCs significantly influence graft acceptance or rejection will be meticulously explored. Additionally, the lecture will delve into the multifaceted landscape of graft-versus-host disease (GVHD), while concurrently scrutinizing potential therapeutic targets aimed at ameliorating GVHD's detrimental consequences. The discussion of innovative strategies and ongoing research within this field underscores the potential offered by the manipulation of ILCs, heralding a new era of understanding and application within the realm of transplant medicine.