



Immune Biology of Allogeneic Hematopoietic Stem Cell Transplantation: Models in Discovery and Translation

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Immune Biology of Allogeneic Hematopoietic Stem Cell Transplantation provides clinical and scientific researchers with a deep understanding of the current research in this field and the implications for translational practice. By providing an overview of the immune biology of HSCT, an explanation of immune rejection, and detail on antigens and their role in HSCT success, this book embraces biologists and clinicians who need a broad view of the deeply complex processes involved. It then moves on to discuss the immunobiology mechanisms that influence graft-versus-host disease (GVHD), graft-versus-leukemia (GVL) effect, and transplantation success. Using illustrative figures, highlighting key issues, describing recent successes and discussing unanswered questions, this book sums up the current state of HSCT to enhance the prospects for the future.

Allogeneic HSCT is a medical procedure in which a patient receives blood-forming stem cells from a genetically similar but not identical donor. This procedure is commonly performed for people with diseases of the blood, bone marrow, or certain cancers, but it remains risky with many possible complications. As such, experimental practice is reserved for preclinical animal models including the mouse and dog.

These animal models have been essential in developing transplant protocols, including preclinical testing of conditioning regimens, treatment of GVHD, and understanding the pathology of GVHD as well as the immunological mechanisms of GVHD and GVL effect. However, recent research has revealed significant species differences between humans and animal models that must be considered when relating animal model studies to clinical allogeneic HSCT scenarios.

- Brings together perspectives leading laboratories and clinical research groups to highlight advances from bench to the bedside
- Guides readers through the caveats that must be considered when drawing conclusions from studies with animal models before correlating to clinical allogeneic HSCT scenarios
- Categorizes the published advances in various aspects of immune biology of allogeneic HSCT to illustrate opportunities for clinical applications

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