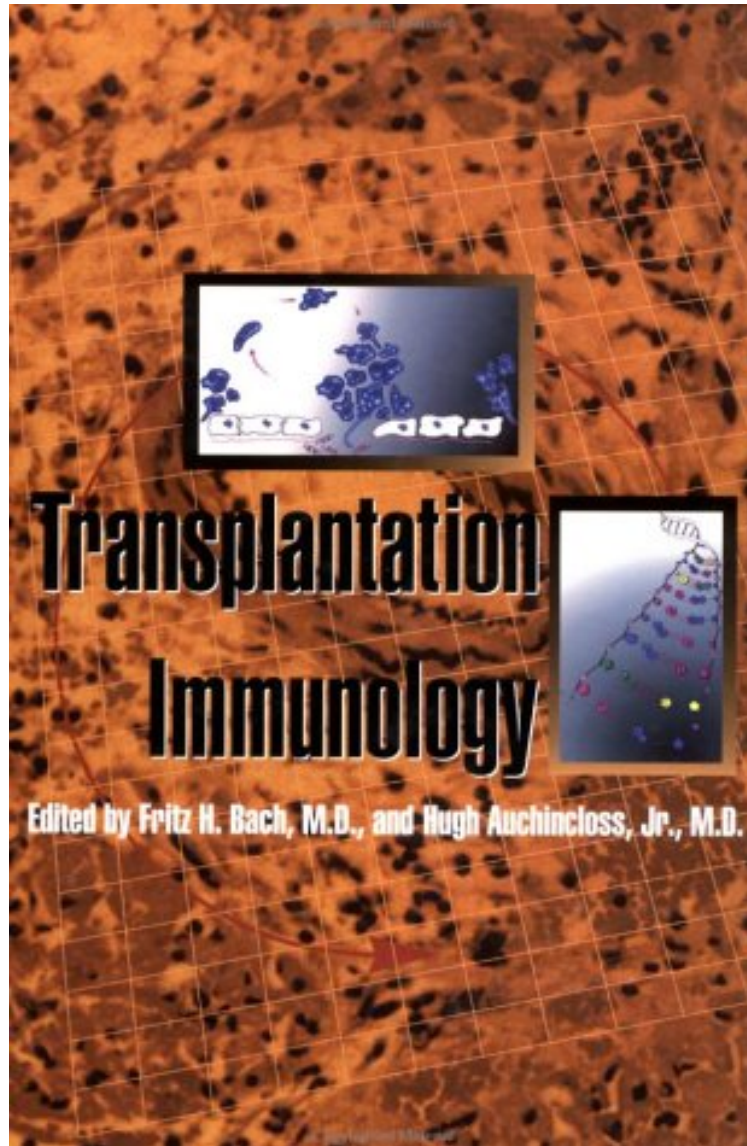


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Transplantation Immunology Edited by Fritz H. Bach, M.D., and Hugh Auchincloss, Jr., M.D. In recent years, transplantation immunology has evolved as a distinct field founded on the recognition that rejection of a transplanted organ or tissue is mediated by immune mechanisms in the host responding to antigens in the donor tissue. This book provides a comprehensive, up-to-date review of current knowledge regarding the specific immune mechanisms which can cause recipients to reject clinical transplants. The text is divided into four sections: Major and Minor Histocompatibility Antigens, Immunobiology of Graft Rejection, Clinical Transplantation, and Frontiers in Transplantation. The first two sections cover present-day understanding of the genetic controls of immunity as well as the two basic concerns of transplantation immunology, namely donor tissue antigens and the host cellular response. The third section deals with clinical aspects of transplantation, while the fourth looks toward future efforts of scientific research in this field including advances in tolerance and xenotransplantation. A detailed appendix entitled "Molecular Biology for the Clinician" is included to help make the material accessible to readers of all backgrounds. Authored by a wide range of experts in both clinical and research fields, individual chapters cover such topics as: T cell immunity Antigen presentation Alloreactivity Pancreas and islet cell transplantation Allogeneic bone marrow transplantation Models of tolerance induction Xenotransplantation The swine leukocyte antigen (SLA) complex Transplantation Immunology is an ideal teaching text for the fundamental concepts, latest findings, and future directions in this increasingly important field. This volume will appeal to a wide range of clinicians including surgeons and primary-care physicians, as well as scientists in molecular biology and immunology.

From the Publisher's major areas of transplantation at a level appropriate for researchers in transplantation immunology and for students interested in the field. Concepts and facts are presented in an easy-to-follow manner and complex terminology is defined in every chapter where it appears. Sections one and two cover present-day understanding of the two basic areas of transplantation immunology--donor tissue antigens and the host cellular response. The third part deals with clinical aspects of transplantation and the last with the future, namely, tolerance and xenotransplantation. Copious illustrations demonstrate concepts. From the Back Cover Transplantation Immunology Edited by Fritz H. Bach, M.D., and Hugh Auchincloss, Jr., M.D. In recent years, transplantation immunology has evolved as a distinct field founded on the recognition that rejection of a transplanted organ or tissue is mediated by immune mechanisms in the host responding to antigens in the donor tissue. This book provides a comprehensive, up-to-date review of current knowledge regarding the specific immune mechanisms which can cause recipients to reject clinical transplants. The text is divided into four sections: Major and Minor Histocompatibility Antigens, Immunobiology of Graft Rejection, Clinical Transplantation, and Frontiers in Transplantation. The first two sections cover present-day understanding of the genetic controls of immunity as well as the two basic concerns of transplantation immunology, namely donor tissue antigens and the host cellular response. The third section deals with clinical aspects of transplantation, while the fourth looks toward future efforts of scientific research in this field--including advances in tolerance and xenotransplantation. A detailed appendix entitled "Molecular Biology for the Clinician" is included to help make the material accessible to readers of all backgrounds. Authored by a wide range of experts in both clinical and research fields, individual chapters cover such topics as: T cell immunity Antigen presentation Alloreactivity Pancreas and islet cell transplantation Allogeneic bone marrow transplantation Models of tolerance induction Xenotransplantation The swine leukocyte antigen (SLA) complex Transplantation Immunology is an ideal teaching text for the fundamental concepts, latest findings, and future directions in this increasingly important field. This volume will appeal to a wide range of clinicians including surgeons and primary-care physicians, as well as scientists in molecular biology and immunology.