

# Immunologic Aspects of Platelet Transfusion: Technical Workshop

McCarthy, Leo J.

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# Immunologic Aspects Of Platelet Transfusion

**Leo J. McCarthy, Jay E. Menitove**



## **Immunologic Aspects Of Platelet Transfusion:**

**Immunology and Blood Transfusion** C.Th. Smit Sibinga,P.C. Das,T.H. The,2012-12-06 In transfusion medicine the scientific fundamentals of immunology have had a considerable clinical impact Transfusion may suppress the immunity but some patients could suffer disadvantages including GvHD alloimmunisation and possible cancer where white cells WBC play pivotal roles in this phenomenon presenting antigens and producing cytokines A clinical application of this practice is LAK cells targeted against cancer MHC on the WBC may provide additional immunological modulations through series of secondary messengers Thus reduction of WBC in the blood and bone marrow may be advantageous for patients On the other hand sharing a part of MHC or making the transplanted white cells anergic by storage may be even more advantageous for patients CMV infection could mimic part of this MHC UV radiation is effective in the inactivation of the WBC although filters are easy means for such removal However their accurate quantification requires flow cytometry that has considerable potential application in blood transfusions Idiotypic antibody could play an important role in platelet theory However the potential infection risks in transfusion like HIV and HCV remain but application of molecular biological methods like PCR or RT PCR has great potentials in detection of infectious diseases transplantation and genetic disorders Immuno affinity purified concentrates like factor IX and protein C could reduce patients immune functions where in the future protein C could be derived from transgenic animals Advances are sure to emerge through adoptive immunotherapy and gene therapies are exciting prospects when genes transferred into lymphocytes could be used to correct cell mediated immune deficiency as in ADA

*Immunologic Aspects of Platelet Transfusion* Leo J. McCarthy,Jay E. Menitove,1985 Immunological Aspects J. Robin Harris,2013-12-01 This volume and future ones in the series which is now under new editorship depart from the pattern established by previous volumes in containing chapters loosely related to one another It is thus appropriate that each volume should have a relevant subtitle In the present volume the underlying theme is immunology and its application to the study of a number of different biochemical systems Almost inevitably the study of the cell surface antigens and glycoproteins of a number of different tissues tends to dominate the contents but considerable emphasis is also placed on subcellular organelles and enzymes Undoubtedly it is the impact of readily available monoclonal antibodies that dominates work in the field The epitope specificity provided by monoclonal antibodies gives the biochemist a powerful lever with which to probe the location structure and function of cellular protein and glycoprotein antigens A number of the chapters included in this volume have a strong biomedical emphasis This is indeed intentional as it is now the policy of the series to cover the more applied aspects of the subject while in no way neglecting more fundamental topics in subcellular biochemistry

Immunological Aspects of Allergy and Allergic Diseases E. Rajka,2013-11-11 SPECIFICITY It is a basic assumption that for reasons unknown the constituents of the human body may become antigenic and then the patient produces antibodies against them Some autoantibodies are tissue specific e g haemolytic anaemia pernicious anaemia whereas others are non

tissue specific e g systemic lupus erythematosus To prove autoimmunity in the strict sense is not an easy task In any event the outcome of antigenic stimulation whether antibody formation or tolerance seems to depend on the same factors for autoantigens as it does for any other antigen 146 Rabbits rendered tolerant to bovine serum albumin respond to immunization with human serum albumin and in doing so frequently produce antibodies that react with bovine serum albumin which means the termination of tolerance This is of special interest as a model of autoimmune disease since natural tolerance of body constituents might be terminated by immunization with a cross reactive antigen from the environment 266 It cannot be overemphasized how difficult it could be at least in several instances to delineate specific from non specific events in any immunological process Cyclic AMP may be one of the examples for non specific inducers whereas thymopoietin 25a for instance induces only the differentiation of cells with thymus specific antigens The participation of cells recruited by lymphokines also represents non specific amplification Lymphocytes of unrelated specificity continue to accumulate in experimental autoimmune inflammation after elimination of the specifically sensitized cells that initiated the inflammation

262 **Immunological Effects of Blood Transfusion** Dharam P. Singal, 1994-12-08 This concise monograph examines the novel and distinct feature of blood transfusion BT It critically reviews the areas of major concern to the public and scientific medical community Topics include Transmission of diseases from the blood donor to the recipient and the transfusion induced alloimmunization of the recipient BT induced immunomodulatory effects both beneficial and deleterious Beneficial effects in clinical organ transplantation and in treatment of women with unexplained recurrent abortions Adverse effects of BT in patients undergoing curative surgery for different types of cancer and in patients at risk for bacterial infections Deleterious effects of BT on enhanced tumor growth and infections in experimental animals Attempts by a number of investigators to treat autoimmune diseases by BT in humans and in experimental animals Mechanisms of the BT effect from various perspectives including the component of blood host factors and hypotheses for beneficial and damaging effects

**Immunological Aspects of Infectious Diseases** G. Dick, 2012-12-06 In the first place may I say how grateful I and others are to those who have contributed chapters for this book all of them are well known for their research on the subject on which they have written and each has indicated the background to his own specialist field by providing an extensive bibliography giving this book a total reference list of over 2 500 Although there have been enormous advances in immunology over recent years much of the new knowledge in relation to infectious diseases was scattered over the world's literature and is now brought together in a single volume Furthermore while a number of previously unknown infectious diseases have recently been discovered e g Marburg and Lassa virus infections and Legionnaires disease to which many new techniques have been applied there seemed to be no clear statement of the rationale for their use or for their further exploitation in some of the more common infectious diseases which are discussed in this book Platelet Immunology C. Kaplan-Gouet, C. Salmon, 1988-02-15 *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years

1965 70      Immunological Aspects of Reproduction in Mammals D. B. Crichton, 2014-05-20 Immunological Aspects of Reproduction in Mammals contains papers presented during a symposium at the University of Nottingham Easter School The scholarly presentations provide a wealth of information on the field of reproductive immunology and indicate just how complex this field is and how many questions still remain to be answered The book begins with reviews of the current status of the complexities and uncertainties of the cellular basis of the immune response and the structure and function of antibodies This is followed by separate chapters on the assessment and interpretation of the phenomena surrounding autoimmune and isoimmune reactions to spermatozoa advances in defining the distribution and degree of exposure of major histocompatibility antigens the reproductive immunology of the mouse horse and sheep and fetal and neonatal immunity Subsequent chapters present studies of immunization of several species with either the hypothalamic hormone LH RH pituitary gonadotrophins or ovarian steroids and studies directed towards efforts to enhance animal production by either active or passive immunization of female farm animals against steroid hormones This book will be a valuable reference text for those already involved in the field and a stimulus for others to enter this complex and fascinating area of research

*Fibrinolysis, Thrombolysis, and Blood Clotting: a Bibliography*, 1969      **Hemostasis and Thrombosis**, 1969 Monthly with annual cumulation Recurring bibliography from MEDLARS data base Index medicus format Entries arranged under subject review and author sections Subject author indexes      **Library of Congress Subject Headings** Library of

Congress, 2004      Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office, 2006

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