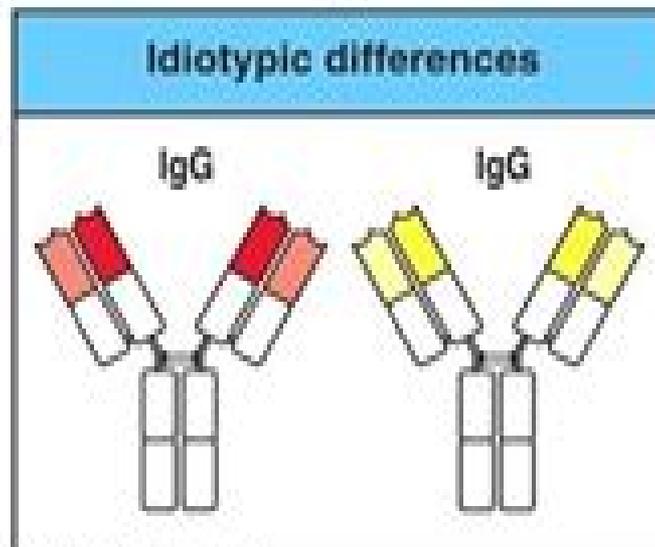
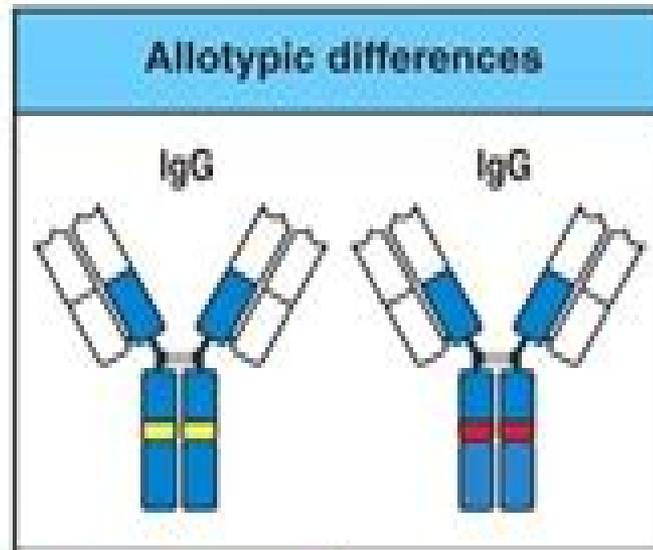
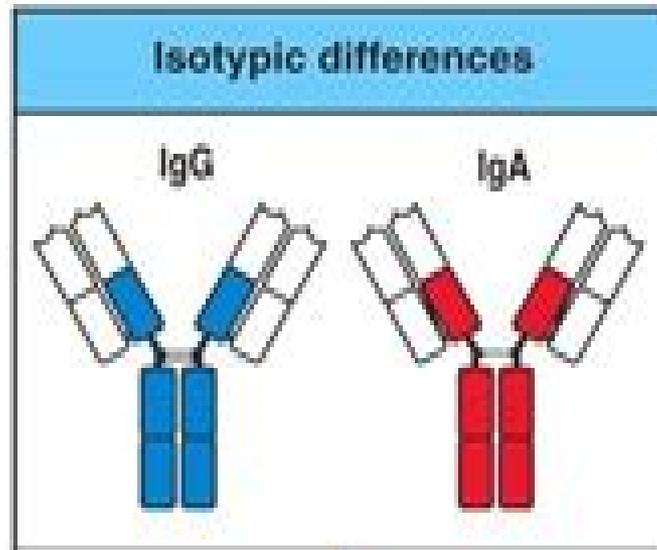


Isotypes, Allotypes and Idiotypes



Definitions:

Isotype:

- Different Fc
- Different type of Ab
- IgG, IgA, IgM, IgE, IgD

Allotype:

- Difference between species
- Most differences in Fc region.

Idiotypes

- Different specificities of the antibody molecules.
- Eg: each idiotype recognizes a different part of or different antigen

Windows

Go to Settings to activate Windows

Biology Of Idiotypes

Kimberley A. McGrath



Biology Of Idiotypes:

The Biology of Idiotypes Mark Greene, 2013-11-11 The phenomenon of idiotype was discovered almost thirty years ago but it was only during the past decade that it attracted widespread interest and became the subject of numerous research investigations From the outset much of the interest in idiotype was based on its implications with respect to the repertoire of antibodies Kunkel showed for example that idiotypes associated with certain human myeloma or Bence Jones proteins were present in normal human globulins at levels of less than one part per million Also Oudin's original definition of idiotype implied that idiotypes could be uniquely associated with individual rabbits as well as with particular antigen binding specificities Such observations provided some of the earliest evidence for an extensive repertoire of immunoglobulin molecules The implications of these findings have been amply confirmed by recent studies of protein structure and molecular genetics many of these studies are reviewed in the present volume It is known now that the diversity of antibodies is based on the presence of numerous V and L V H genes on recombinatorial events involving D and segments on somatic mutations and on processes involving deletion of DNA followed by repair with errors including insertions Each of these parameters is capable of influencing the idiotype expressed by the final immunoglobulin product Regulation of the immune response is another area in which idiotype has significantly influenced modern immunology

Idiotype in Biology and Medicine Heinz Köhler, Jacques Urbain, Pierre-André Cazenave, 2013-10-22 Idiotype in Biology and Medicine aims to serve the increasing interest and involvement in the practical aspects of idiotype in biological systems The concept of idiotype has received wide recognition and interest far beyond the area of immunology Experiments and interpretation of findings reported here clearly support the general nature of the idiotype concept in manipulating biological systems to correct pathological conditions or to improve the immune adaptation to environmental factors The book is organized into three sections Section 1 discusses original concepts of idiotypic manipulations It reviews old and recent data important for the concept of an idiotype network and reports on attempts to deal with the T cell receptor paradox explains the immune system in terms of a circular idiotype network that can be demonstrated by sequential immunization and emphasizes the need for restrictions in network interactions Section 2 addresses the role and activity of idiotypic and antiidiotypic antibodies in the regulation of the immune system Section 3 takes the issue of idiotype antiidiotype out of the realm of the immune system and discusses it as a new principle to analyze and manipulate biological systems in general

Idiotypes in Biology and Medicine D. A. Carson, P. P. Chen, T. J. Kipps, 1989 *Idiotype Networks in Biology and Medicine* Albert Osterhaus, Fons UytdeHaag, 1990 *Idiotypes* Oklahoma Medical Research Foundation, 1986 Molecular Immunobiology of Self-reactivity Constantin A. Bona, Azad K. Kaushik, 1992 Seventeen contributions address various topics that encompass facets of the blurred area where physiologic and autoimmunopathologic processes lose distinction These processes remain intact during health but go haywire for multifactorial reasons leading to the development of systemic autoimmune d

Biomedical

Index to PHS-supported Research ,1990 **Regulatory Idiotoxes** Constantin A. Bona,1987-03-11 Presents the major theoretical aspects and experimental findings supporting the network theory of immune response Explains the concept of regulatory idiotopes and their roles in physiological and pathological phenomena and then gives practical applications of idioype concepts to the preparation of vaccines to understanding the basis of autoimmune diseases to cancer therapy and to the study of receptors for hormones vitamins and other biologically active substances The information contained in this text will be valuable to any student or specialist who is devoted to understanding the relationship between the immune system and other systems in the body Idiotypes and Diseases Maurizio Zanetti,Constantin A. Bona,Franco Celada,1987
Energy Research Abstracts ,1978 **Cold Spring Harbor Symposia on Quantitative Biology**; ,1933 **Research Awards Index** ,1981 **World of Biology** Kimberley A. McGrath,1999 Contains 1 034 alphabetically arranged entries that provide information about some of the most significant topics principles and discoveries in biology and its allied disciplines including brief biographies of key individuals in the field Immunoglobulin Idiotypes Charles A. Janeway,Charles Janeway,Eli E. Sercarz,Hans Wigzell,1981 **The Journal of Immunology** ,1990 **Milestones in Immunology** Debra Jan Bibel,1988 **Energy Research Abstracts** ,1978 *Fundamental Immunology* William E. Paul,1989 The defining reference work in immunology today is now available in an entirely new text This edition places greater emphasis on molecular mechanisms underlying cellular function and physiology and includes outstanding new chapters on neuroimmunology and immunotherapy completely updated coverage of immune suppression and regulatory T cells and new and expanded chapters on lymphocytes the immunology of aging autoimmunity and more A free CD ROM provides one click access to all of the content and illustrations from the text plus Internet links to PubMed and 50 other sites Nothing else competes with it JAMA review of the previous edition Idiotypy in Biology and Medicine Heinz Köhler,Jacques Urbain,Pierre-André Cazenave,1984 *Idiotypy in Biology and Medicine* aims to serve the increasing interest and involvement in the practical aspects of idiotypy in biological systems The concept of idiotypy has received wide recognition and interest far beyond the area of immunology Experiments and interpretation of findings reported here clearly support the general nature of the idioype concept in manipulating biological systems to correct pathological conditions or to improve the immune adaptation to environmental factors The book is organized into three sections Section 1 discusses original concepts of idiotypic manipul **American Scientist** ,1942

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