

**Molecular Biology
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R. Grubb

The Genetic Markers of Human Immunoglobulins

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The Genetic Markers Of Human Immunoglobulins

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The Genetic Markers Of Human Immunoglobulins:

The Genetic Markers of Human Immunoglobulins Rune E. Grubb, 2012-12-06 It has long been known that every individual has a large number of antibodies of different specificities Antibodies are gammaglobulins and protein structure in cells is genetically determined The extreme multiplicity of structure of the combining sites of antibodies relative to the degree of multiplicity generated by ordinary genetic mechanisms is a fascinating problem of bio medical importance The functional heterogeneity of reactions mediated by immunoglobulins is remarkable ranging from protection against life threatening toxins and microbes to the production of laryngeal edema leading to suffocation and death from anaphylaxis An approach to the understanding of immunoglobulin polymorphism based upon a knowledge of genetic markers of immunoglobulin structure is not biased by the question of whether or not this polymorphism is related to combining site diversity Though several recent reviews of the multifaceted problems related to immunoglobulins are available it was decided to publish this survey in the belief that knowledge of the genetic markers of immunoglobulins provides such information about immunoglobulin differentiation and its control as cannot be obtained from other sources Several of the human genetic immunoglobulin markers are well understood at the molecular level The Gm system may serve as a model for other immunogenetic systems The published data on the human immunoglobulin factors are widely scattered in journals of different perspectives There is a need for a systematic presentation of these data and for their critical evaluation

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Vanoss,1994-08-24 This work offers comprehensive coverage of the chemical and physicochemical aspects of immunological interactions as well as the molecules and moieties involved in these interactions It covers in detail the Ag Ab interaction including attraction at a distance between epitope and paratope College or university bookstores may order five or more copies at a special student price available upon request *The Human IgG Subclasses* Farouk Shakib,2016-04-20 This book features contributions from internationally renowned scientists from Europe and the USA covering aspects of immunoglobulin subclasses from a molecular and mechanistic approach The first section presents a detailed discussion of the molecular structure and segmental flexibility of IgG subclasses including how this controls their effector function Structure function relationships are fully developed in the second section by means of a functional approach to the study of complement activation and opsonization by IgG subclasses The final section contains a generous account of the regulation of IgG subclass expressions *The Distribution of the Human Immunoglobulin Allotypes* Arthur Gerald Steinberg,Charles E. Cook,1981 **Human Anti-Human Gammaglobulins, Their Specificity and Function** R. Grubb,G. Samuelsson,2014-05-17 Human Anti Human Gammaglobulins Their Specificity and Functions is a written record of the seventeenth volume of the Wenner Gren International Symposium Series which aims to define natural mechanisms giving rise to human anti immunoglobulins the interactions between anti Igs and Ig determinants and its effects The book is divided according to the six sessions that were held during the symposium Topics include basic experimental data determinants of IgG revealed by human antiglobulins anti gammaglobulin factors in tissues anti gammaglobulins interacting with immunoglobulins in solution anti gammaglobulin cellular interactions and a special lecture The text is recommended for medical doctors especially immunologists who want to know more about the human anti human gammaglobulin its origin functions and the discoveries about it **Human Immunogenetics** S. D. Litwin,2020-10-28 Delineating fundamental concepts of contemporary immunogenetics this reference text examines specific immunogenetic systems in terms of molecular biochemistry and immunophysiology Covers material in diverse fields including infectious diseases cell biology virology molecular genetics Comprised **Immunogenetics** Gabriel S Panayi,Chella S. David,2014-05-19 Immunogenetics is a 12 chapter book that begins with the elucidation of the major histocompatibility complex genes and their role in autoimmune and infectious diseases Subsequent chapters explore the human major histocompatibility complex including implications of their complement genes for linkage disequilibrium and disease associations This book also describes the genetics of human immunoglobulins T cell clones genes of the major histocompatibility complex of the mouse and the generation characterization and use of monoclonal antibodies of murine and human origin Specific diseases are also discussed these include spondyloarthritis rheumatoid arthritis systemic lupus erythematosus multiple sclerosis and autoimmune thyroid disease This book will be of beneficial value to specialists in infectious diseases endocrinology connective tissue diseases and neurology as well as to medical scientists in immunology and molecular biology

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