# Lecture Notes in Biomathematics

Managing Editor: S. Levin

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Charles DeLisi

Antigen Antibody Interactions



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**National Institutes of Health (U.S.)** 

Antigen Antibody Interactions C. Delisi, 2013-03-13 1 1 Organization of the Immune System One of the most important survival mechanisms of vertebrates is their ability to recognize and respond to the onslaught of pathogenic microbes to which they are conti ously exposed The collection of host cells and molecules involved in this recognition 12 response function constitutes its immune system In man it comprises about 10 cells 20 lymphocytes and 10 molecules immunoglobulins Its ontogenic development is c strained by the requirement that it be capable of responding to an almost limitless variety of molecular configurations on foreign substances while simultaneously remaining inert to those on self components It has thus evolved to discriminate with exquisite precision between molecular patterns The foreign substances which induce a response called antigens are typically large molecules such as proteins and polysaccharides. The portions of these with which immunoglobulins interact are called epitopes or determinants A typical protein epitope may consist of a configuration formed by the spatial arrangements of four or five amino acids and have an average linear dimension of about 20 A and Epidemiology Geoffrey W. Hoffmann, Tomas Hraba, 2013-06-29 In February 1985 a small international meeting of scientists took place at the recreation resort of the Polish Academy of Sci ences in Mogilany near Cracow Poland The initiative for holding the workshop came from a working meeting on mathematical immunology and related topics at the International Institute for Applied Sys tems Analysis in Laxenburg Austria in November 1983 In addition to representatives of IIASA delegates of the IIASA National Member Organizations NMO of Czechoslovakia Italy and the soviet Union took part in that working meeting The participants came to the conclusion that IIASA could play an important role in facilitating the development of research in this field The first step that they recommended to I IASA was to organize a workshop on mathematical immunology The purpose of the workshop was to review the progress that has been made in applying mathematics to problems in immunology and to explore ways in which further progress might be achieved especially by more efficient interactions between scientists working in mathematical and experimental immunology Some National Member Organizations contributed to the success of the workshop by nominating further participants working in this or related fields For instance thanks to a suggestion of the British NMO the meeting also included analyses of the interactions between the immune state of a population and epidemiological phenomena There were 33 participants at Mogilany from 11 countries namely Canada Czechoslovakia Federal Republic of Germany Hungary Japan Netherlands Poland Sweden united Kingdom USA and USSR Vito Volterra Symposium on Mathematical Models in Biology Claudio Barigozzi, 2013-03-13 The idea of organizing a symposium on mathematical models in biology came to some colleagues members of the Accademia dei Lincei in order to point out the importance of mathematics not only for supplying instruments for the elaboration and the evaluation of experimental data but also for discussing the possibility of developing mathematical formulations of biological problems This appeared particularly appropriate for genetics where mathematical models have been of historical importance When the

organizing work had started it became clear to us that the classic studies of Vito Volterra who was also a Member of the Academy and its President from 1923 to 1926 might be con sidered a further reason to have the meeting in Rome at the Accademia dei Lincei thus the meeting is dedicated to his memory Biology in its manifold aspects proved to Se difficult object for an exhaustive approach thus it became necessary for practical reasons to make a choice of problems Therefore not all branches of biology have been represented The proceedings of the symposium as a whole assume a knowledge of mathematics on the part of the reader however the problem of teaching mathematics to biologists was the subject of a round table discussion not recorded in these proceedings On this were brought up some basic points to be recommended to teachers on an international basis and a statement was prepared for circulation The Organizing Committee TABLE OF CONTENTS TOPIC I MODELS OF NATUPAL SELECTION **Optimization of Human Cancer Radiotherapy** G.W. Swan, 2013-03-08 The mathematical models in this book are concerned with a variety of approaches to the manner in which the clinical radiologic treatment of human neoplasms can be improved. These improvements comprise ways of delivering radiation to the malignan cies so as to create considerable damage to tumor cells while sparing neighboring normal tissues There is no unique way of dealing with these improvements Accordingly in this book a number of different presentations are given Each presentation has as its goal some aspect of the improvement or optimization of radiotherapy This book is a collection of current ideas concerned with the optimization of human cancer radiotherapy It is hoped that readers will build on this collection and develop superior approaches for the understanding of the ways to improve therapy The author owes a special debt of thanks to Kathy Prindle who breezed through the typing of this book with considerable dexterity TABLE OF CONTENTS Chapter GENERAL INTRODUCTION 1 1 Introduction 1 1 2 History of Cancer and its Treatment by Radiotherapy 8 1 3 Some Mathematical Models of Tumor Growth 12 1 4 Spatial Distribution of the Radiation Dose 20 Chapter 2 SURVIVAL CURVES FROM STATISTICAL MODELS 24 2 1 Introduction 24 2 2 The Target Model 26 2 3 Single hit to kill Model 27 2 4 Multitarget Single hit Survival 29 2 5 Multitarget Multihit Survival 31 2 6 Single target Multihit Survival 31 2 Published Scientific Papers of the National Institutes of Health National Institutes of Health (U.S.), 1977 Each issue lists papers published during the preceding year Mathematical Models in Cell Biology and Cancer Chemotherapy M. Eisen, 2013-03-13 The purpose of this book is to show how mathematics can be applied to improve cancer chemotherapy Unfortunately most drugs used in treating cancer kill both normal and abnormal cells However more cancer cells than normal cells can be destroyed by the drug because tumor cells usually exhibit different growth kinetics than normal cells To capitalize on this last fact cell kinetics must be studied by formulating mathematical models of normal and abnormal cell growth These models allow the therapeutic and harmful effects of cancer drugs to be simulated quantitatively The combined cell and drug models can be used to study the effects of different methods of administering drugs The least harmful method of drug administration according to a given criterion can be found by applying optimal control theory. The prerequisites for

reading this book are an elementary knowledge of ordinary differential equations probability statistics and linear algebra In order to make this book self contained a chapter on cell biology and a chapter on control theory have been included Those readers who have had some exposure to biology may prefer to omit Chapter I Cell Biology and only use it as a reference when required However few biologists have been exposed to control theory Chapter 7 provides a short coherent and comprehensible presentation of this subject The concepts of control theory are necessary for a full understanding of Chapters 8 and 9 Mathematical Modeling of the Hearing Process M.H. Holmes, L.A. Rubenfeld, 2013-03-13 The articles of these proceedings arise from a NSF CBMS regional conference on the mathematical modeling of the hearing process that was held at Rensselaer Polytechnic Institute in the summer of 1980 To put the a ticles in perspective it is best to briefly review the history of suc modeling It has proceeded more or less in three stages The first was initiated by Herman Helmholtz in the 1880 s whose theories dominated the subject for years However because of his lack of accurate experimental data and his heuristic arguments it became apparent that his models needed revision Accordingly based on the experimental observations of von Bekesy the long wave theories were developed in the 1950 s by investigators such as Zwislocki Peterson and Bogert However as the ex eri ents became more refined such as Rhode's wssbauer Measurements even these models came into question This has brought on a flurry of activity in recent years into how to extend the models to account for these more recent eXT lerimental observations One approach is through a device co monly refered to as a second filter see Allen's article and another is through a more elaborate hydroelastic model see Chadwick's article In conjunction with this latter approach there has been some recent work on developing a low frequency model of the cochlea see Holmes article Geometrical Probability and Biological Structures: Buffon's 200th Anniversary R. E. Miles, J. Serra, 2013-03-08 Stochastic Activity of Neurones A. V. Holden, 2013-03-13 These notes have grown from a series of seminars given at Leeds between 1972 and 1975 They represent an attempt to gather together the different kinds of model which have been proposed to account for the stochastic activity of neurones and to provide an introduction to this area of mathematical biology A striking feature of the electrical activity of the nervous system is that it appears stochastic this is apparent at all levels of recording ranging from intracellular recordings to the electroencephalogram The chapters start with fluctuations in membrane potential proceed through single unit and synaptic activity and end with the behaviour of large aggregates of neurones L have chaaen this seque e uggest that the interesting behaviourr f the nervous system its individuality variability and dynamic forms may in part result from the stochastic behaviour of its components I would like to thank Dr Julio Rubio for reading and commenting on the drafts Mrs Doris Beighton for producing the final typescript and Mr Peter Hargreaves for preparing the figures Stochastic Transport Processes in Discrete Biological Systems Eckart Frehland, 2013-03-13 These notes are in part based on a course for advanced students in the applications of stochastic processes held in 1978 at the University of Konstanz These notes contain the results of re cent studies on the stochastic description of ion transport

through biological membranes In particular they serve as an introduction to an unified theory of fluctuations in complex biological transport systems We emphasize that the subject of this volume is not to introduce the mathematics of stochastic processes but to present a field of theoretical biophysics in which stochastic methods are important In the last years the study of membrane noise has become an important method in biophysics Valuable information on the ion transport mechanisms in membranes can be obtained from noise analysis A number of different processes such as the opening and closing of ion channels have been shown to be sources of the measured current or voltage fluctuations Bio logical transport systems can be complex For example the transport process can be coupled to other processes such as chemical reactions and take place in discontinuous structures of molecular dimensions Furthermore since there are strong electric fields or high concentration gradients across biological membranes ion transport processes of biological relevance are mostly processes far from equilibrium For these reasons the development of new theoretical concepts has been necessary The concept of transport in discrete systems has turned out to be more appropriate than continuum models Dynamics of the Human Eye R. Collins, T. J. van der Werff, 2013-03-08 A rich and abundant literature has developed during the last half century dealing with mechanical aspects of the eye mainly from clinical and experimental points of view For the most part workers have attempted to shed light on the complex set of conditions known by the general term glaucoma These conditions are characterised by an increase in intraocular pressure sufficient to cause de generation of the optic disc and concomitant defects in the visual field which if not controlled lead to inevitable permanent blindness In the United States alone an estimated 50 000 persons are blind as a result of glaucoma which strikes about 2% of the population over 40 years of age Vaughan and Asbury 1974 An understanding of the underlying mechanisms of glaucoma is hindered by the fact that elevated intraocular pressure like a runny nose is but a symptom which may have a variety of causes Only by turning to the initial pathology can one hope to understand this important class of medical problems **Mathematics and the Life** Sciences D.E. Matthews, 2013-03-13 For two weeks in August 1975 more than 140 mathematicians and other scientists gathered at the Universite de Sherbrooke The occasion was the 15th Biennial Seminar of the Canadian Mathematical Congress entitled Mathematics and the Life Sciences Participants in this inter disciplinary gathering included researchers and graduate students in mathematics seven different areas of biological science physics chemistry and medical science Geographically those present came from the United States and the United Kingdom as well as from academic departments and government agencies scattered across Canada In choosing this particular interdisciplinary topic the programme committee had two chief objectives These were to promote Canadian research in mathematical problems of the life sciences and to encourage co operation and exchanges between mathematical scientists biologists and medical re searchers To accomplish these objective the committee assembled a stim ulating programme of lectures and talks Six principal lecturers each delivered a series of five one hour lectures in which various aspects of the interaction between mathematics and the life

sciences were considered In addition researchers working in the areas of health population biology physiology and development biology and disease processes were invited to give more than 25 hours of complementary talks **Stochastic** Methods in Biology Motoo Kimura, Gopinath Kallianpur, Takeyuki Hida, 2013-03-13 The use of probabilistic methods in the biological sciences has been so well established by now that mathematical biology is regarded by many as a distinct dis cipline with its own repertoire of techniques The purpose of the Workshop on sto chastic methods in biology held at Nagoya University during the week of July 8 12 1985 was to enable biologists and probabilists from Japan and the U S to discuss the latest developments in their respective fields and to exchange ideas on the applicability of the more recent developments in stochastic process theory to problems in biology Eighteen papers were presented at the Workshop and have been grouped under the following headings I Population genetics five papers II Measure valued diffusion processes related to population genetics three papers III Neurophysiology two papers IV Fluctuation in living cells two papers V Mathematical methods related to other problems in biology epidemiology population dynamics etc six papers An important feature of the Workshop and one of the reasons for organizing it has been the fact that the theory of stochastic differential equations SDE s has found a rich source of new problems in the fields of population genetics and neuro biology This is especially so for the relatively new and growing area of infinite dimensional i e measure valued or distribution valued SDE s The papers in II and III and some of the papers in the remaining categories represent these areas **Algebras in Genetics** Angelika Wörz-Busekros, 2013-03-08 The purpose of these notes is to give a rather complete presentation of the mathematical theory of algebras in genetics and to discuss in detail many applications to concrete genetic situations. Historically the subject has its origin in several papers of Etherington in 1939 1941 Fundamental contributions have been given by Schafer Gonshor Holgate Reiers I Heuch and Abraham At the moment there exist about forty papers in this field one survey article by Monique Bertrand from 1966 based on four papers of Etherington a paper by Schafer and Gonshor's first paper Furthermore Ballonoff in the third section of his book Genetics and Social Structure has included four papers by Etherington and Reiers I s paper Apparently a complete review in par ticular one comprising more recent results was lacking and it was difficult for students to enter this field of research I started to write these notes in spring 1978 A first german version was finished at the end of that year Further revision and translation required another year I hope that the notes in their present state provide a reasonable review and that they will facilitate access to this field I am especially grateful to Professor K P Hadeler and Professor P Holgate for reading the manuscript and giving essential comments to all versions of the text I am also very grateful to Dr I Heuch for many discussions during and after his stay in TUbingen I wish to thank Dr V M Scientific **Directory and Annual Bibliography** National Institutes of Health (U.S.), 1976 Presents the broad outline of NIH organizational structure the professional staff and their scientific and technical publications covering work done at NIH Math Everywhere G. Aletti, Martin Burger, Alessandra Micheletti, Daniela Morale, 2007-07-11 These proceedings report

on the conference Math Everywhere celebrating the 60th birthday of the mathematician Vincenzo Capasso The conference promoted ideas Capasso has pursued and shared the open atmosphere he is known for Topic sections include Deterministic and Stochastic Systems Mathematical Problems in Biology Medicine and Ecology Mathematical Problems in Industry and Economics The broad spectrum of contributions to this volume demonstrates the truth of its title Math is Everywhere indeed

Stochastic Models for Spike Trains of Single Neurons S.K. Srinivasan, Gopalan Sampath, 2013-03-13 1 Some basic neurophysiology 4 The neuron 1 1 4 1 1 1 The axon 7 1 1 2 The synapse 9 12 1 1 3 The soma 1 1 4 The dendrites 13 13 1 2 Types of neurons 2 Signals in the nervous system 14 2 1 Action potentials as point events point processes in the nervous system 15 18 2 2 Spontaneous activi in neurons 3 Stochastic modelling of single neuron spike trains 19 3 1 Characteristics of a neuron spike train 19 3 2 The mathematical neuron 23 4 Superposition models 26 4 1 superposition of renewal processes 26 4 2 Superposition of stationary point processe limiting behaviour 34 4 2 1 Palm functions 35 4 2 2 Asymptotic behaviour of n stationary point processes superposed 36 4 3 Superposition models of neuron spike trains 37 4 3 1 Model 4 1 39 4 3 2 Model 4 2 A superposition model with 40 two input channels 40 4 3 3 Model 4 3 4 4 Discussion 41 43 5 Deletion models 5 1 Deletion models with 1nd endent interaction of excitatory and inhibitory sequences 44 VI 5 1 1 Model 5 1 The basic deletion model 45 5 1 2 Higher order properties of the sequence of r events 55 5 1 3 Extended version of Model 5 1 Model 60 5 2 5 2 Models with dependent interaction of excitatory and inhibitory sequences MOdels 5 3 and 5 Serology and Immunochemistry of Plant Viruses M.H.V. Van Regenmortel, 2012-12-02 Serology and Immunochemistry of Plant Viruses investigates the antigenic properties of plant viruses It looks at the practical aspects of plant virus serology along with the molecular basis of viral antigenicity antigenic determinants in proteins the structure of antibodies virus purification antiserum production and the theoretical principles and practical implementation of the various serological techniques It also considers the problems associated with identification and classification of plant viruses Organized into 10 chapters this volume begins with an overview of antigens and antigenic determinants before proceeding with a discussion of the immunochemistry of plant viruses virus antibody binding the role of quaternary structure in antigenicity and the structure of viral antigenic determinants. The reader is also introduced to the methods and principles of purifying plant viruses preparation of antisera and purification of antibodies antigen antibody interaction immunochemical techniques used with plant viruses the role of quaternary structure on viral antigenicity diagnosis of virus diseases use of serological criteria for measuring the degree of relationship between viruses and immunochemical studies of plant viruses The book includes a bibliography with 1 400 references and a list of all the plant viruses that have been studied by serology This book will be a useful resource for virologists and plant pathologists as well as for students and research workers in plant virology plant pathology microbiology and general virology The Mechanics and Biophysics of Hearing Peter Dallos, C. Daniel Geisler, John, W. Matthews, Mario A. Ruggero, Charles R. Steele, 2014-03-11 Proceedings of a workshop on the physics and

biophysics of hearing that brought together experimenters and modelers working on all aspects of audition Topics covered include cochlear mechanical measurements cochlear models mechanicals and biophysics of hair cells efferent control and ultrastructure Population Genetics in Forestry Hans-Rolf Gregorius, 2013-03-13 When we consider the main object of forestry the tree it immediately becomes clear why experimental population geneticists have been so hesitant in making this object a primary concern of their research Trees are very long living organisms with generation intervals frequently exceeding those of their investigators by multiples They virtually exclude therefore application of the classical methods of population genetics since these are based on observing genetic structures over generations. This situation where the limits set to observation are so severe particularly requires close cooperation between theory and experiment It also requires careful consideration of results obtained for organisms other than trees in order to gain additional insights by comparing the results for trees with those for other organisms. Yet the greatest challenge to population and ecological genetics probably originates from the fact that forests are very likely to be the most complex ecosystems of all even in some cases where they are subject to intense management This complexity which equally comprises biotic and abiotic factors varying both in time and space makes extremely high demands on the adaptational capacity and thus flexibility of the carriers of such an ecosystem Longevity combined with immobility during the vegetative phase however appears to contradict the obvious necessity of adaptational flexibility in forest tree populations when compared with short lived and or mobile organisms

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