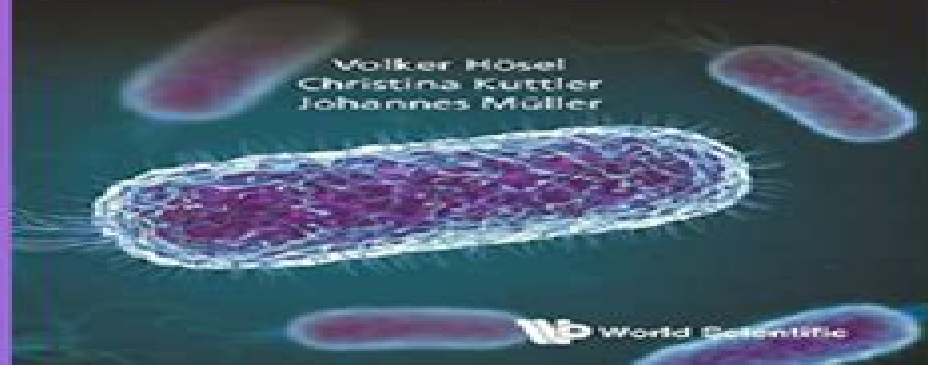


MATHEMATICAL POPULATION GENETICS AND EVOLUTION OF BACTERIAL COOPERATION

Volker Hösel
Christina Kuttler
Johannes Müller



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Mathematical Population Genetics

R. Bürger



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Genetics Warren J. Ewens, 1979 **Mathematical Population Genetics 1** Warren J. Ewens, 2012-11-06 This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory. This volume draws heavily from the author's 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population genetics.

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models for random mating diploid populations in depth though without sacrificing clarity of expression In the new edition coverage has been extended with the provision of an extra chapter on the Fundamental Theorem of Natural Selection This book is written for those interested in the mathematical aspects of genetics ecology and biology Both students of mathematical genetics and historians of the subject will find it a definitive statement of the origins of modern mathematical population genetics

Population Genetics W.J. Ewens, 2013-03-12 Population genetics is the mathematical investigation of the changes in the genetic structure of populations brought about by selection mutation inbreeding migration and other phenomena together with those random changes deriving from chance events These changes are the basic components of evolutionary progress and an understanding of their effect is therefore necessary for an informed discussion of the reasons for and nature of evolution It would however be wrong to pretend that a mathematical theory depending as it must on a large number of simplifying assumptions should be accepted unreservedly and that its conclusions should be accepted uncritically No one would pretend that in the event of disagreement between observation and mathematical prediction the discrepancy is due to anything other than the inadequacy of the mathematical treatment The biological world is of course far too complex for the study of population genetics to be simply a branch of applied mathematics so that while we are concerned here with the mathematical theory I have tried to indicate which of our results should continue to apply in a context wider than that in which they are formally derived The difficulties involved in the joint discussions of mathematical and genetical problems are obvious enough I have tried to aim this book rather more at the mathematician than at the geneticist and for this reason a brief glossary of common genetical terms is included

Mathematical Topics in Population Genetics Ken-ichi Kojima, 2012-12-06 A basic method of analyzing particulate gene systems is the probabilistic and statistical analyses Mendel himself could not escape from an application of elementary probability analysis although he might have been unaware of this fact Even Galtonian geneticists in the late 1800 s and the early 1900 s pursued problems of heredity by means of mathematics and mathematical statistics They failed to find the principles of heredity but succeeded to establish an interdisciplinary area between mathematics and biology which we call now Biometrics Biometry or Applied Statistics A monumental work in the field of population genetics was published by the late R A Fisher who analyzed the correlation among relatives based on Mendelian gene theory 1918 This theoretical analysis overcame so called blending inheritance theory and the orientation of Galtonian explanations for correlations among relatives for quantitative traits rapidly changed We must not forget the experimental works of Johanson 1909 and Nilsson Ehle 1909 which supported Mendelian gene theory However a large scale experiment for a test of segregation and linkage of Mendelian genes affecting quantitative traits was probably for the first time conducted by K Mather and his associates and Panse in the 1940 s

Mathematical Population Genetics Mathematisches Forschungsinstitut Oberwolfach, 2005

Some Mathematical Models from Population Genetics Alison Etheridge, 2011-01-05 This work reflects sixteen hours of lectures delivered by the author at the

2009 St Flour summer school in probability It provides a rapid introduction to a range of mathematical models that have their origins in theoretical population genetics The models fall into two classes forwards in time models for the evolution of frequencies of different genetic types in a population and backwards in time coalescent models that trace out the genealogical relationships between individuals in a sample from the population Some like the classical Wright Fisher model date right back to the origins of the subject Others like the multiple merger coalescents or the spatial Lambda Fleming Viot process are much more recent All share a rich mathematical structure Biological terms are explained the models are carefully motivated and tools for their study are presented systematically

Mathematics of Genetic Diversity J. F. C. Kingman, 1980-01-01 This book draws together some mathematical ideas that are useful in population genetics concentrating on a few aspects which are both biologically relevant and mathematically interesting

Probability and Mathematical Genetics N. H. Bingham, C. M. Goldie, 2010-07-15 Focussing on the work of Sir John Kingman one of the world's leading researchers in probability and mathematical genetics this book touches on the important areas of these subjects in the last 50 years Leading authorities give a unique insight into a wide range of currently topical problems Papers in probability concentrate on combinatorial and structural aspects in particular exchangeability and regeneration The Kingman coalescent links probability with mathematical genetics and is fundamental to the study of the latter This has implications across the whole of genomic modelling including the Human Genome Project Other papers in mathematical population genetics range from statistical aspects including heterogeneous clustering to the assessment of molecular variability in cancer genomes Further papers in statistics are concerned with empirical deconvolution perfect simulation and wavelets This book will be warmly received by established experts as well as their students and others interested in the content

Mathematical Structures in Population Genetics Илья Ли́хвич, 1992-03-16 Very Good No Highlights or Markup all pages are intact

Mathematical Theories of Populations Frank Hoppensteadt, 1975-12-01 A basic model in population age structure is studied and then applied and extended to several population phenomena

Some Mathematical Models from Population Genetics Alison Etheridge, 2011-03-30 Based on the author's lectures at the 2009 St Flour summer school in probability this volume provides an introduction to a range of mathematical models that have their origins in theoretical population genetics

Some Models from Mathematical Population Genetics with Fluctuations in the Environment Aleksnader Klimek, 2018

Mathematical Methods for Population Genetics G. Dahlberg, 1946-11-30

The Mathematical Theory of Selection, Recombination, and Mutation R. Bürger, 2000-11-02 It is close to being a masterpiece could well be the classic presentation of the area Warren J Ewens University of Pennsylvania USA Population genetics is concerned with the study of the genetic ecological and evolutionary factors that influence and change the genetic composition of populations The emphasis here is on models that have a direct bearing on evolutionary quantitative genetics Applications concerning the maintenance of genetic variation in quantitative traits and their dynamics under selection are treated in detail Provides a unified self contained and

in depth study of the theory of multilocus systems Introduces the basic population genetic models Explores the dynamical and equilibrium properties of the distribution of quantitative traits under selection Summarizes important results from more demanding sections in a comprehensible way Employs a clear and logical presentation style Following an introduction to elementary population genetics and discussion of the general theory of selection at two or more loci the author considers a number of mutation selection models and derives the dynamical equations for polygenic traits under general selective regimes The final chapters are concerned with the maintenance of quantitative genetic variation the response to directional selection the evolutionary role of deleterious mutations and other topics Graduate students and researchers in population genetics evolutionary theory and biomathematics will benefit from the in depth coverage This text will make an excellent reference volume for the fields of quantitative genetics population and theoretical biology

Theoretical Population

Genetics J.S. Gale, 2012-12-06 The rise of the neutral theory of molecular evolution seems to have aroused a renewed interest in mathematical population genetics among biologists who are primarily experimenters rather than theoreticians This has encouraged me to set out the mathematics of the evolutionary process in a manner that I hope will be comprehensible to those with only a basic knowledge of calculus and matrix algebra I must acknowledge from the start my great debt to my students Equipped initially with rather limited mathematics they have pursued the subject with much enthusiasm and success This has enabled me to try a number of different approaches over the years I was particularly grateful to Dr L J Eaves and Professor W E Nance for the opportunity to give a one semester course at the Medical College of Virginia and I would like to thank them their colleagues and their students for the many kindnesses shown to me during my visit I have concentrated almost entirely on stochastic topics since these cause the greatest problems for non mathematicians The latter are particularly concerned with the range of validity of formulae A sense of confidence in applying these formulae is almost certainly best gained by following their derivation I have set out proofs in fair detail since in my experience minor points of algebraic manipulation occasionally cause problems To avoid loss of continuity I have sometimes put material in notes at the end of chapters

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