Amazing Numbers In Biology

Cell Biology by the NumbersBiology by NumbersAlgebraic Biology, Matrix Genetics, And Genetic IntelligencePhysical Biology of the CellPamphlets on BiologyA Brain for NumbersTheory of gontierism Vol 1Maximus the Confessor and Evolutionary BiologyBiology in NumbersWildlife and Emerging Zoonotic Diseases: The Biology, Circumstances and Consequences of Cross-Species TransmissionPopulation and BiologyAnnual Report of the Liverpool Marine Biological StationBasic Ideas in BiologyFaith and ScienceResearch Grants IndexHazell's Annual CyclopaediaEvolution by the NumbersThe Science of BiologyThe Bibliographic IndexContributions to Canadian Biology Ron Milo Richard F. Burton Sergei V Petoukhov Rob Phillips Andreas Nieder Darrell Gontier Andrew P. Jackson Flindt James E. Childs Nathan Keyfitz Liverpool Marine Biology Committee Edwin Allen Phillips Kenneth D. Keathley National Institutes of Health (U.S.). Division of Research Grants James Wynn George Gilmore Scott

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a top 25 choice 2016 title and recipient of the choice outstanding academic title oat award how much energy is released in atp hydrolysis how many mrnas are in a cell how genetically similar are two random people what is faster transcription or translation cell biology by the numbers explores these questions and dozens of others provid

a practical undergraduate textbook for maths shy biology students showing how basic maths reveals important insights

historically mathematics probability and statistics have been widely used in the biological sciences recent progress in genomics has yielded many millions of gene sequences but what do these sequences tell us and what are the generalities and rules governed by them it seems that we understand very little about the genetic contexts required to read them there is more to life than the genomic blueprint of each organism life functions within the natural laws that we know and the ones we do not know the development of modern mathematical natural sciences is based on the use of certain mathematical tools mathematics can be used to understand life from the molecular to the biosphere level this book provides the foundation and latest advances for an emerging research area that uses tools from symbolic computation computer algebra and logic algebraic geometry fractal geometry probability and statistics and matrix algebra to formalize and solve biological problems and explore its applications in algebraic biology and code biology it introduces highly interdisciplinary topics in biomathematics such as matrix genetics gestalt biology bio antenna arrays resonance genetics quantum biology and more

physical biology of the cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students it maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology as a key organizing

principle the proximity of topics is based on the physical concepts that

how our intuitive understanding of numbers is deeply rooted in our biology traceable through both evolution and development humans understanding of numbers is intuitive infants are able to estimate and calculate even before they learn the words for numbers how have we come to possess this talent for numbers in a brain for numbers andreas nieder explains how our brains process numbers he reports that numerical competency is deeply rooted in our biological ancestry it can be traced through both the evolution of our species and the development of our individual minds it is not as it has been traditionally explained based on our ability to use language we owe our symbolic mathematical skills to the nonsymbolic numerical abilities that we inherited from our ancestors the principles of mathematics nieder tells us are reflections of the innate dispositions wired into the brain nieder explores how the workings of the brain give rise to numerical competence tracing flair for numbers to dedicated number neurons in the brain drawing on a range of methods including brain imaging techniques behavioral experiments and twin studies he outlines a new integrated understanding of the talent for numbers along the way he compares the numerical capabilities of humans and animals and discusses the benefits animals reap from such a capability he shows how the neurobiological roots of the brain s nonverbal quantification capacity are the evolutionary foundation of more elaborate numerical skills he discusses how number signs and symbols are represented in the brain calculation capability and the neuromythology of mathematical genius the start up tools for counting and developmental of dyscalculia a number disorder analogous to the reading disorder dyslexia and how the brain processes the abstract concept of zero

darrells theory of numbers and numerology completely different

this book brings maximus the confessor s logoi doctrine into dialogue with modern day evolutionary biology it explores the extent to which the logoi as described by maximus exhibit features that are concordant with evolution before going on to consider more discordant aspects that cannot be ignored the author addresses the curious resonance between the logoi and evolution in a systematic way through a close reading of primary textual material allied with a deep understanding of both the classical darwinian and extended evolutionary syntheses the study joins with other maximian interpreters in attesting to the incarnational and theophanic nature of the logoi but seeks to extend this distinctively eastern christo cosmology into the problematic territory of biological evolution a territory historically dominated by western scholarship the book will be of interest to scholars of religion and science as well as patristics and the eastern orthodox theological traditions

this volume offers an overview of the processes of zoonotic viral emergence the intricacies of host virus interactions and the role of biological transitions and modifying factors the themes introduced here are amplified and explored in detail by the contributing authors who explore the mechanisms and unique circumstances by which evolution biology history and current context have contrived to drive the emergence of different zoonotic agents by a series of related events

in faith and science a primer for a hypernatural world kenneth keathley argues that rather than acting as opposing forces scientific inquiry and the christian faith go hand in hand in his mission to offer a fully integrated theology of science keathley begins with the lordship of christ and the sufficiency of scripture he characterizes the study of science as a providential gift and a worthy vocation with christian origins keathley then examines the twin challenges of scientism and fideism observing their deficiencies as comprehensive worldviews after defending galileo as a scientist theologian keathley offers readers a model for how to integrate their christian faith with their scientific pursuits faith and science provides a ready primer for students and everyday christians to challenge their preconceptions about faith and science and to develop a more robust worldview to guide their examinations of our hypernatural world the christ in everything series exists to demonstrate how christ is connected to all of life the primers in this series serve as introductions to important cultural

topics including science freedom politics beauty and the nature of truth each book offers a biblical and theological framework from which to view and approach the topic at hand followed by examples for how to walk in the way of jesus in that cultural domain

in evolution by the numbers the origins of mathematical argument in biology james wynn examines the confluence of science mathematics and rhetoric in the development of theories of evolution and heredity in the nineteenth century evolution by the numbers shows how mathematical warrants become accepted sources for argument in the biological sciences and explores the importance of rhetorical strategies in persuading biologists to accept mathematical arguments

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