

Coming To Life How Genes Drive Development

Relative Strangers: Family Life, Genes and Donor Conception
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The Selfish Gene
The Essence of Vitality
Life Without Genes
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with reproductive medical technologies becoming more accessible assisted donor conception is raising new and important questions about family life using in depth interviews the authors explore the lived reality of donor conception and offer insights into the complexities of these new family relationships

an educational resource explaining core genetic principles inheritance patterns molecular genetics and biotechnology

christiane nusslein volhard winner of the nobel prize in medicine gives a concise and illustrative overview of genetics evolution and cellular processes as well as a discussing of current ethical issues in human biology coming to life is a remarkable journey through developmental biology that reveals miraculous processes in the microscopic world of cells through an accounting of groundbreaking discoveries christiane nusslein volhard tells us many answers to historical and contemporary questions in science for example she brings us the newest knowledge about embryonic forms explains the genetic mechanisms that influence adult development of all animals and shares insights into the ethical standards

society must uphold in the face of new scientific discoveries as the author leads us from laboratory research to its applications in human beings we also come to understand why children look like their parents how an embryonic cell knows to become an eye rather than an eyelash and other incredible influences that result in variety in life complete with her own hand drawn illustrations coming to life gives a rare opportunity to understand a nobel prize winner's passion for science in concise understandable language 55 b w illustrations

the proportion of elderly people continues to increase in the western world nearly a quarter of the population will be over 65 years by the year 2050 since aging is accompanied by an increase in diseases and by a deterioration in well being finding solutions to these social medical and psychological problems is necessarily a major goal for society scientists and medical practitioners are therefore faced with the urgent task of increasing basic knowledge of the biological processes that cause aging more resources must be put into this research in order to achieve better understanding of the cellular mechanisms that underlie the differences in life span between species and to answer the difficult questions of why some individuals age more quickly than others and why some develop liver problems some have heart problems and others brain problems the results of such a wide program of research will provide important information about the causes of many life threatening and or debilitating diseases of old age it will help find ways to prevent some of the ailments that result from aging and it may well lead to discoveries enabling the prolongation of human life

susan aldrige gives an accessible guide to the world of dna and also explores the applications of genetic engineering in biotechnology she takes the reader step by step through the fascinating study of molecular biology the first part of the book describes dna and its function within living organisms the second part explores genetic engineering and its applications to humans such as gene therapy genetic screening and dna fingerprinting the third part looks at the wider world of biotechnology and how genetic engineering can be applied to such problems as producing vegetarian cheese or cleaning up the environment the final part explains how knowledge of the structure and functioning of genes sheds light on evolution and our place in the world although easy to read this book does not avoid the science involved and should be read by anyone who wants to know about dna and genetic engineering

the million copy international bestseller critically acclaimed and translated into over 25 languages this 30th anniversary edition includes a new introduction from the author as well as the original prefaces and foreword and extracts from early reviews as relevant and influential today as when it was first published the selfish gene has become a classic exposition of evolutionary thought professor dawkins articulates a gene's eye view of evolution a view giving centre stage to these persistent units of information and in which organisms can be seen as vehicles for their replication this imaginative powerful and stylistically brilliant work not only brought the insights of neo darwinism to a wide audience but galvanized the biology community generating much debate and stimulating whole new areas of research

the essence of vitality unraveling the symphony of life is an awe inspiring journey into the intricate world of biology revealing the profound interconnectedness and resilience of life on earth this comprehensive guide takes readers on an exploration of the fundamental principles that govern the living world from the smallest building blocks of life to the grand tapestry of ecosystems with captivating prose and accessible explanations this book delves into the

fascinating realm of cellular biology unveiling the secrets of dna the blueprint for all life readers will witness the marvel of protein synthesis the process that transforms genetic information into the molecules that orchestrate life s functions they will explore the intricate dance of cell division essential for growth repair and reproduction and unravel the mysteries of human nature consciousness and aging venturing beyond individual organisms the essence of vitality explores the mesmerizing realm of ecology where countless species interact in a symphony of interdependence readers will discover the delicate balance of ecosystems where each organism plays a vital role in maintaining the harmony of the natural world they will trace the epic journey of evolution a tale of adaptation resilience and transformation and ponder the profound interconnectedness of all living things this book is an invitation to celebrate the wonder and beauty of life to appreciate the intricate mechanisms that govern the living world and to reflect on our place within the grand tapestry of existence with its engaging writing style and comprehensive coverage of biological concepts the essence of vitality is an essential resource for students educators and anyone with a passion for understanding the complexities and marvels of life if you like this book write a review

bringing together the latest insights from genetics and cyberculture this book contends that all life can be conceived of as information it explores future developments in genetics both as a consequence of darwinian natural selection and under the influence of genetic engineering the ideas are illustrated by writing that draws on a range of surreal examples including hypermarkets containing every toy in the universe pufferfish that think like flies peter pan like trips through human genes and creatures that evolve in months and not millennia it argues that the future will be dominated by biological machines evolved artificially by a process of accelerated evolution which is called evolution compression

this halloween themed candy fairies super special has double the delicious fun in this extra long candy fairies adventure five fairy friends are sent on a quest to discover why all the gummy trees are melting in the sugar valley is a goblin haunting the gummy forest each fairy will need to use her unique abilities to discover what is souring the forest turns out it s a sad lonely young dragon named carobee but with some help from the candy fairies carobee learns to spin his fire into a special sweet treat so peace can be restored to the kingdom

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Introduction

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