

# The Tangled Field

NATHANIEL C. COMFORT



Barbara McClintock's  
Search for the  
Patterns of  
Genetic Control

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# S Search For The Patterns Of Genetic Control

**O García**



## **S Search For The Patterns Of Genetic Control:**

*The Tangled Field* Nathaniel C. COMFORT, Nathaniel C Comfort, 2009-06-30 This biographical study illuminates one of the most important yet misunderstood figures in the history of science Barbara McClintock 1902 1992 a geneticist who integrated classical genetics with microscopic observations of the behavior of chromosomes was regarded as a genius and as an unorthodox nearly incomprehensible thinker In 1946 she discovered mobile genetic elements which she called controlling elements Thirty seven years later she won a Nobel Prize for this work becoming the third woman to receive an unshared Nobel in science Since then McClintock has become an emblem of feminine scientific thinking and the tragedy of narrow mindedness and bias in science Using McClintock s research notes newly available correspondence and dozens of interviews with McClintock and others Comfort argues that McClintock s work was neither ignored in the 1950s nor wholly accepted two decades later Nor was McClintock marginalized by scientists throughout the decades of her alleged rejection she remained a distinguished figure in her field Comfort replaces the McClintock myth with a new story rich with implications for our understanding of women in science and scientific creativity

**Epigenetics In Human Reproduction And Development** Anna K Naumova, Teruko Taketo-hosotani, 2016-12-20 Epigenetics is defined as heritable changes that do not affect the DNA sequence but influence gene expression Epigenetic changes occur at the levels of DNA histone protein and chromatin structures Proper epigenetic modifications are essential for cell differentiation and function during development while some epigenetic modifications are passed on from parents to offspring through gametes Therefore alterations of epigenetic states would have serious consequences for human development and health This realization and the advent of new technologies have encouraged the advance of epigenetic studies in recent years Nonetheless many aspects of epigenetics such as regulatory mechanisms and evolutionary advantages remain to be better understood Written by 26 scientists at the forefront of epigenetics research this book discusses the different facets of epigenetics from gametogenesis to child development as well as from mechanistic studies in animal models to reviews of human clinical data

**Transposable Elements** Esra Galun, 2003-07-31 OY PONEOYLI TOIA YTA IIOAAOI OKOEQJII Many fail to grasp what they have seen and cannot judge what they have learned ErKYPEOYLI OYL1E MA ONTEE ITINOEKOYIT although they tell themselves they know EQYTOJII L1E L10KEOYLI Heraclitus of Ephesus 500 BC everyone that is not speckled and C T v N T ji N tuN spotted among the goats and brown among the sheep that shall be counted N N n c w c m stolen with me Genesis Chapter 30 From Heraclitus of Ephesus and later philosophers we can deduce that observation of natural phenomena even when keen and accurate will not result in meaningful knowledge unless combined with analysis of the mind just as analysis of the mind without acquaintance with natural phenomena will not suffice to grasp the perceivable world Only familiarity with phenomena combined with mental analysis will lead to additional knowledge The citation from Genesis Chapter 30 is part of an unusual story It tells how Jacob received as payment for his service to Laban the bulk of Laban s herds By agreement

Jacob was to receive only the newborn speckled and spotted goats and the newborn brown sheep that differed completely from their parents Did Jacob know that there was instability transposable elements in the pigmentation of Laban's herd It is reasonable to assume that Jacob combined his keen observation with analysis of his mind in order to predict the outcome most of the newborns were indeed speckled spotted or brown

**RNA, the Epicenter of Genetic Information** John Mattick, Paulo Amaral, 2022-09-20 The origin story and emergence of molecular biology is muddled The early triumphs in bacterial genetics and the complexity of animal and plant genomes complicate an intricate history This book documents the many advances as well as the prejudices and founder fallacies It highlights the premature relegation of RNA to simply an intermediate between gene and protein the underestimation of the amount of information required to program the development of multicellular organisms and the dawning realization that RNA is the cornerstone of cell biology development brain function and probably evolution itself Key personalities their hubris as well as prescient predictions are richly illustrated with quotes archival material photographs diagrams and references to bring the people ideas and discoveries to life from the conceptual cradles of molecular biology to the current revolution in the understanding of genetic information

**Key Features** Documents the confused early history of DNA RNA and proteins a transformative history of molecular biology like no other Integrates the influences of biochemistry and genetics on the landscape of molecular biology Chronicles the important discoveries preconceptions and misconceptions that retarded or misdirected progress Highlights major pioneers and contributors to molecular biology with a focus on RNA and noncoding DNA Summarizes the mounting evidence for the central roles of non protein coding RNA in cell and developmental biology Provides a thought provoking retrospective and forward looking perspective for advanced students and professional researchers The Open Access version of this book available at [www.taylorfrancis.com](http://www.taylorfrancis.com) has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

**Genetic Basis for Respiratory Control Disorders** Claude Gaultier, 2007-10-18 Provides an overview of the recent knowledge of the genetic factors underlying respiratory control disorders an emerging field in respiratory biology Identifying genes involved in respiratory control is crucial for understanding human diseases characterized by abnormal respiratory control

**Back cover** *Evolutionary Computation in Gene Regulatory Network Research* Hitoshi Iba, Nasimul Noman, 2016-02-23 Introducing a handbook for gene regulatory network research using evolutionary computation with applications for computer scientists computational and system biologists This book is a step by step guideline for research in gene regulatory networks GRN using evolutionary computation EC The book is organized into four parts that deliver materials in a way equally attractive for a reader with training in computation or biology Each of these sections authored by well known researchers and experienced practitioners provides the relevant materials for the interested readers The first part of this book contains an introductory background to the field The second part presents the EC approaches for analysis and reconstruction of GRN from gene expression data The third part of this book covers the

contemporary advancements in the automatic construction of gene regulatory and reaction networks and gives direction and guidelines for future research Finally the last part of this book focuses on applications of GRNs with EC in other fields such as design engineering and robotics Provides a reference for current and future research in gene regulatory networks GRN using evolutionary computation EC Covers sub domains of GRN research using EC such as expression profile analysis reverse engineering GRN evolution applications Contains useful contents for courses in gene regulatory networks systems biology computational biology and synthetic biology Delivers state of the art research in genetic algorithms genetic programming and swarm intelligence Evolutionary Computation in Gene Regulatory Network Research is a reference for researchers and professionals in computer science systems biology and bioinformatics as well as upper undergraduate graduate and postgraduate students Hitoshi Iba is a Professor in the Department of Information and Communication Engineering Graduate School of Information Science and Technology at the University of Tokyo Tokyo Japan He is an Associate Editor of the IEEE Transactions on Evolutionary Computation and the journal of Genetic Programming and Evolvable Machines Nasimul Noman is a lecturer in the School of Electrical Engineering and Computer Science at the University of Newcastle NSW Australia From 2002 to 2012 he was a faculty member at the University of Dhaka Bangladesh Noman is an Editor of the BioMed Research International journal His research interests include computational biology synthetic biology and bioinformatics

**To Grasp the Essence of Life** R. Hausmann, 2013-06-29 50 years of DNA double helix what was before and afterwards The present book although written mainly for science students and research scientists is also aimed at those readers who look at science not for its own sake but in search of a better understanding of our world in general What were the fundamental questions asked by the early pioneers of molecular biology What made them tick for decades trying to elucidate the basic mechanisms of heredity and life itself In each chapter the development of a particular aspect of modern biology is described in a historical and logical context not missing to take into account human aspects of the protagonists of the story At the end of each chapter there are some excursus with additional information technical and otherwise which can be read separately The book is enriched with many illustrations including facsimile reproductions from the original descriptions of key experiments Flowering Plants. Monocots Elizabeth A. Kellogg, 2015-05-18 This volume is the outcome of a modern phylogenetic analysis of the grass family based on multiple sources of data in particular molecular systematic studies resulting from a concerted effort by researchers worldwide including the author In the classification given here grasses are subdivided into 12 subfamilies with 29 tribes and over 700 genera The keys and descriptions for the taxa above the rank of genus are hierarchical i e they concentrate upon characters which are deemed to be synapomorphic for the lineages and may be applicable only to their early diverging taxa Beyond the treatment of phylogeny and formal taxonomy the author presents a wide range of information on topics such as the structural characters of grasses their related functional aspects and particularly corresponding findings from the field of developmental genetics with inclusion of genes and gene products

instrumental in the shaping of morphological traits in which this volume appears unique within this book series further topics addressed include the contentious time of origin of the family the emigration of the originally shade loving grasses out of the forest to form vast grasslands accompanied by the switch of many members to C4 photosynthesis the impact of herbivores on the silica cycle housed in the grass phytoliths the reproductive biology of grasses the domestication of major cereal crops and the affinities of grasses within the newly circumscribed order Poales This volume provides a comprehensive overview of existing knowledge on the Poaceae Gramineae with major implications in terms of key scientific challenges awaiting future research It certainly will be of interest both for the grass specialist and also the generalist seeking state of the art information on the diversity of grasses the most ecologically and economically important of the families of flowering plants

**The Gender of Things** Maria Rentetzi, 2023-09-29 The Gender of Things is a highly interdisciplinary book that explores the power relationship between gender and the material culture of technoscience addressing a seemingly straightforward question How does a thing such as a spacesuit a humanoid robot or a surgical instrument become a gendered object These 14 short chapters cover an original selection of things from cosmeceuticals to early motor scooters from Scrum boards to border walls and from robots to the human body and its parts By historically examining how significance has been attached to specific things and how things were designed and produced the chapters reveal how the concept of gender has been embedded and finds expression in the material world of science and technology With insights from science and technology studies STS anthropology the history of ergonomics museum studies the history of science technology and medicine but also the philosophy and sociology of technology and feminist new materialism this collection reminds us that our material creations not only bear knowledge about our world The Gender of Things will be of key interest to undergraduate and graduate students and research scholars of STS as well as gender studies The Introduction and Chapter 4 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

**Mechanisms Regulating Gene Flow in Flowering Plants** Hugh G. Dickinson, Lorenza Saitta, R. L. Gardner, M. Azim Surani, Simon John Hiscock, Davor Solter, Peter R. Crane, 2003

*Fundamental Molecular Biology* Lizabeth A. Allison, 2021-07-07 Fundamental Molecular Biology Discover a focused and up to date exploration of foundational and core concepts in molecular biology The newly revised Third Edition of Fundamental Molecular Biology delivers a selective and precise treatment of essential topics in molecular biology perfect for allowing students to develop an accurate understanding of the applications of the field The book applies the process of discovery observations questions experimental designs results and conclusions with an emphasis on the language of molecular biology Readers will easily focus on the key ideas they need to succeed in any introductory molecular biology course Fundamental Molecular Biology provides students with the most up to date techniques and research used by molecular biologists today Readers of the book will have the support and resources they need to develop a concrete

understanding of core and foundational concepts of molecular biology without being distracted by outdated or peripheral material Readers will also benefit from the inclusion of A thorough introduction to and comparison of eukaryotic and prokaryotic organisms illustrating the variation of cellular processes across organisms Tool boxes exploring up to date experimental methods and techniques used by molecular biologists Focus boxes providing detailed treatment of topics that delve further into experimental strategies Disease boxes placing complex regulatory pathways in their relevant context and illustrating key principles of molecular biology Perfect for instructors and professors of introductory molecular biology courses Fundamental Molecular Biology will also earn a place in the libraries of anyone seeking to improve their understanding of molecular biology with an insightful and well grounded treatment of the core principles of the subject

*Microarray Gene Expression Data Analysis* Helen Causton, John Quackenbush, Alvis Brazma, 2009-04-01 This guide covers aspects of designing microarray experiments and analysing the data generated including information on some of the tools that are available from non commercial sources Concepts and principles underpinning gene expression analysis are emphasised and wherever possible the mathematics has been simplified The guide is intended for use by graduates and researchers in bioinformatics and the life sciences and is also suitable for statisticians who are interested in the approaches currently used to study gene expression Microarrays are an automated way of carrying out thousands of experiments at once and allows scientists to obtain huge amounts of information very quickly Short concise text on this difficult topic area Clear illustrations throughout Written by well known teachers in the subject Provides insight into how to analyse the data produced from microarrays

*Recombinant DNA: Genes and Genomes* James D. Watson, 2007 Recombinant DNA Third Edition is an essential text for undergraduate graduate and professional courses in Genomics Cell and Molecular Biology Recombinant DNA Genetic Engineering Human Genetics Biotechnology and Bioinformatics The Third Edition of this landmark text offers an authoritative accessible and engaging introduction to modern genome centered biology from its foremost practitioners The new edition explores core concepts in molecular biology in a contemporary inquiry based context building its coverage around the most relevant and exciting examples of current research and landmark experiments that redefined our understanding of DNA As a result students learn how working scientists make real high impact discoveries The first chapters provide an introduction to the fundamental concepts of genetics and genomics an inside look at the Human Genome Project bioinformatic and experimental techniques for large scale genomic studies and a survey of epigenetics and RNA interference The final chapters cover the quest to identify disease causing genes the genetic basis of cancer and DNA fingerprinting and forensics In these chapters the authors provide examples of practical applications in human medicine and discuss the future of human genetics and genomics projects

Philosophical Transactions of the Royal Society of London ,2003 *Biomedical Index to PHS-supported Research* ,1993

**The Hidden Structure of Interaction** Luigi Anolli, 2005 The idea of complexity states that most things tend to organize themselves into recurring patterns even when these patterns are not immediately

visible to an external observer The general name for the scientific field concerned with the behaviour over time of a dynamic system is complexity theory The dynamic systems systems capable of changing over time are the focus of this approach and its concern is with the predictability of their behaviour The systems of interest to the complexity theory under certain conditions perform in regular predictable ways under other conditions they exhibit behaviour in which regularity and predictability is lost The concepts of stable and unstable behaviour are part of the traditional repertoire of physical science What is novel is the concept of something in between chaotic behaviour For chaos here we refer to systems which display behaviour that though it has certain regularities defies prediction How does the order emerge from the chaos How can we predict the behaviour of a chaotic system Over the last 30 years and more trying to identify the hidden patterns behind chaotic behaviour became the focus of attention in a number of scientific disciplines These range as widely as astronomy chemistry evolutionary biology geology and psychology **Advances in Genetics**, 1988-11-01 Advances in Genetics

*Concepts in Cell Biology - History and Evolution* Vaidurya Pratap Sahi, František Baluška, 2018-03-01 This book discusses central concepts and theories in cell biology from the ancient past to the 21st century based on the premise that understanding the works of scientists like Hooke Hofmeister Caspary Strasburger Sachs Schleiden Schwann Mendel Nemec McClintock etc in the context of the latest advances in plant cell biology will help provide valuable new insights Plants have been an object of study since the roots of the Greek Chinese and Indian cultures Since the term cell was first coined by Robert Hooke 350 years ago in Micrographia the study of plant cell biology has moved ahead at a tremendous pace The field of cell biology owes its genesis to physics which through microscopy has been a vital source for piquing scientists interest in the biology of the cell Today with the technical advances we have made in the field of optics it is even possible to observe life on a nanoscale From Hooke s observations of cells and his inadvertent discovery of the cell wall we have since moved forward to engineering plants with modified cell walls Studies on the chloroplast have also gone from Julius von Sachs experiments with chloroplast to using chloroplast engineering to deliver higher crop yields Similarly advances in fluorescent microscopy have made it far easier to observe organelles like chloroplast once studied by Sachs or actin observed by Bohumil Nemec If physics in the form of cell biology has been responsible for one half of this historical development biochemistry has surely been the other Hierarchical Genome And Differentiation Waves, The: Novel Unification Of Development, Genetics And Evolution (In 2 Volumes) Richard Gordon, 1999-07-12 Over the past few decades numerous scientists have called for a unification of the fields of embryo development genetics and evolution Each field has glaring holes in its ability to explain the fundamental phenomena of life In this book the author shows how the phenomenon of cell differentiation considered in its temporal and spatial aspects during embryogenesis provides a starting point for a unified theory of multicellular organisms plants fungi and animals including their evolution and genetics This unification is based on the recent discovery of differentiation waves by the author and his colleagues described in the appendices and illustrated by a flip movie prepared by



a medical artist To help the reader through the many fields covered a glossary is included This book will be of great value to the researcher and practicing doctors scientists alike The research students will receive an in depth tutorial on the topics covered The seasoned researcher will appreciate the applications and the gold mine of other possibilities for novel research topics     **Philosophical Transactions** ,2003 Each issue of Transactions B is devoted to a specific area of the biological sciences including clinical science All papers are peer reviewed and edited to the highest standards Published on the 29th of each month Transactions B is essential reading for all biologists

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