

R. Ohlsson
Editor

Genomic Imprinting

An Interdisciplinary
Approach

Results
and Problems
in Cell
Differentiation



Springer

Genomic Imprinting An Interdisciplinary Approach

**Austin BURT, Robert Trivers, Austin
Burt**



Genomic Imprinting An Interdisciplinary Approach:

Genomic Imprinting Rolf Ohlsson, 2013-06-29 The form and function of every living organism on the earth depends on the complex regulation of gene expression This is carried out by controlling and interdigitating spatial and temporal patterns of gene activity during the life time of eukaryotic organisms This is most dramatically apparent during early stages of development when new types of cells and organs are being formed often during very short time spans To achieve this it is vital that developmentally important genes can be kept in inactive or active states which are stably inherited in the soma Indeed it is now wellknown that the propensity for a gene to be transcribed or silenced is stably propagated through many cell generations even from parent to progeny This phenomenon constitutes a type of extragenetic or epigenetic memory of cell identity and developmental potential which has been fundamental to the evolution of complex lifeforms such as the reader of this book This monograph focuses on a particular aspect of the epigenetic control of gene function genomic imprinting This defines a phenomenon where some genes or whole chromosomes can be silenced activated or even deleted depending on their parental origin The impact of genomic imprinting is most clearly seen in the areas of cancer clinical genetics and development Many of the processes associated with genomic imprinting can be observed in plants yeast and man for example and may constitute therefore principles which are very conserved on an evolutionary scale Genomic

Imprinting and Kinship David Haig, 2002 Genomic imprinting allows scientists to trace genes to the parent of origin This volume presents a collection of 13 papers by David Haig organismic and evolutionary biology Harvard U on genomic imprinting He argues that our paternally and maternally active genes do not work in cooperation with each other and in fact are in competition Each paper is followed by commentary by the author providing background information and discussing developments since its publication Annotation copyrighted by Book News Inc Portland OR **Cancer Research: An**

Interdisciplinary Approach Nima Rezaei, 2023-07-03 Cancer is a major public health concern and one of the leading causes of death There is no simple solution for this complex disease therefore interdisciplinary approaches might help to find solutions to many unanswered questions and challenges about cancer The rapid flow of interdisciplinary research in cancer during recent years has increased our understanding of the nature of cancers Such interdisciplinary approaches could be helpful for both the diagnosis and the development of more effective therapeutic strategies The Interdisciplinary Cancer Research series publishes comprehensive volumes on different cancers and presents the most updated and peer reviewed articles on human cancers Over the past decade increased cancer research has greatly improved our understanding of the nature of cancerous cells which has led to the development of more effective therapeutic strategies to treat cancers This interdisciplinary series is of special value to researchers and practitioners working on cell biology immunology hematology biochemistry genetics oncology and related fields This is the main concept of Cancer Immunology Project CIP which is a part of Universal Scientific Education and Research Network USERN **Biology of IGF-1** Gregory R. Bock, Jamie A.

Goode,2005-06-10 An invaluable book containing a series of interdisciplinary discussions between clinical and basic scientists Biology of IGF 1 Its interaction with insulin and health and malignant states focuses on key issues such as the definition of danger zones the development of methods for early recognition of malignant states linked to IGF 1 and or insulin possible approaches to preventative intervention the relevance in this field of research to the development of novel therapeutic approaches to treating certain cancers

Developmental Plasticity and Evolution Mary Jane West-Eberhard,2003-04-10 West Eberhard is widely recognized as one of the most incisive thinkers in evolutionary biology This book assesses all the evidence for our current understanding of the role of changes in body plan and development for the process of speciation The process of evolution is systematically reassessed to integrate the insights coming from developmental genetics Every serious student of evolution and a substantial share of developmental biologists and geneticists will need to take note of this contribution The timing is clearly ripe for the synthesis that this work will help bring about

Sperm Biology Scott S. Pitnick,Dave J. Hosken,Tim R. Birkhead,2008-11-21 Sperm Biology represents the first analysis of the evolutionary significance of sperm phenotypes and derived sperm traits and the possible selection pressures responsible for sperm egg coevolution An understanding of sperm evolution is fast developing and promises to shed light on many topics from basic reproductive biology to the evolutionary process itself as well as the sperm proteome the sperm genome and the quantitative genetics of sperm The Editors have identified 15 topics of current interest and biological significance to cover all aspects of this bizarre fascinating and important subject It comprises the most comprehensive and up to date review of the evolution of sperm and pointers for future research written by experts in both sperm biology and evolutionary biology The combination of evolution and sperm is a potent mix and this is the definitive account The first review survey of this emerging field Written by experts from a broad array of disciplines from the physiological and biomedical to the ecological and evolutionary Sheds light on the intricacies of reproduction and the coevolution of sperm egg and reproductive behavior

Natural Selection and Social Theory Robert Trivers,2002-09-05 Robert Trivers is a pioneering figure in the field of sociobiology For Natural Selection and Social Theory he has selected eleven of his most influential papers including several classic papers from the early 1970s on the evolution of reciprocal altruism parent offspring conflicts and asymmetry in sexual selection which helped to establish the centrality of sociobiology as well as some of his later work on deceit in signalling sex antagonistic genes and imprinting Trivers introduces each paper setting them in their contemporary context and critically evaluating them in the light of subsequent work and further developments The result is a unique portrait of the intellectual development of sociobiology with valuable insights for evolutionary biology anthropology and psychology

The Social Evolution of Human Nature Harry Smit,2014-04-03 This book sheds new light on the problem of how the human mind evolved Harry Smit argues that current studies of this problem misguidedly try to solve it by using variants of the Cartesian conception of the mind and shows that combining the Aristotelian conception with Darwin s theory provides us with far more interesting answers He

discusses the core problem of how we can understand language evolution in terms of inclusive fitness theory and investigates how scientific and conceptual insights can be integrated into one explanatory framework which he contrasts with the alternative Cartesian derived framework He then explores the differences between these explanatory frameworks with reference to co operation and conflict at different levels of biological organization the evolution of communicative behaviour the human mind language and moral behaviour His book will interest advanced students and scholars in a range of subjects including philosophy biology and psychology Sex, Size and Gender Roles Daphne J. Fairbairn, Wolf U.

Blanckenhorn, Tamás Székely, 2007-07-05 This collection of 20 chapters written by leading evolutionary biologists from around the globe provides a fascinating insight into the patterns and causes of differences between males and females in the natural world *The Evolution of Insect Mating Systems* David M. Shuker, Leigh W. Simmons, 2014 Insects display a staggering diversity of mating and social behaviours Studying these systems provides insights into a wide range of evolutionary and behavioural questions such as the evolution of sex sexual selection sexual conflict and parental care This edited volume provides an authoritative update of the landmark book in the field *The Evolution of Insect Mating Systems* Thornhill and Alcock 1983 which had such a huge impact in shaping adaptationist approaches to the study of animal behaviour and influencing the study of the evolution of reproductive behaviour far beyond the taxonomic remit of insects This accessible new volume brings the empirical and conceptual scope of the original book fully up to date incorporating the wealth of new knowledge and research of the last 30 years It explores the evolution of complex forms of sex determination in insects and the role of sexual selection in shaping the evolution of mating systems Selection arising via male contest competition and female choice both before and after copulation are discussed as are the roles of parasites and pathogens in mediating the strength of sexual selection and the role that parental care plays in successful reproduction *The Evolution of Insect Mating Systems* is suitable for both graduate students and researchers interested in insect mating systems or behaviour from an evolutionary genetical physiological or ecological perspective Due to its interdisciplinary and concept driven approach it will also be of relevance and use to a broad audience of evolutionary biologists *Advances in Cancer Research* George F. Vande Woude, 2003-03-18 The *Advances in Cancer Research* series provides invaluable information on the exciting and fast moving field of cancer research This volume presents outstanding and original reviews on a variety of topics including HAMLET and tumor cells survivin and apoptosis control retroviral insertional mutagenesis aberrant ubiquitin mediated proteolysis of cell cycle regulatory proteins and oncogenesis and epigenetic variability and the evolution of human cancer Provides invaluable information on the exciting and fast moving field of cancer research Presents outstanding and original reviews on a variety of topics including HAMLET and tumor cells survivin and apoptosis control retroviral insertional mutagenesis aberrant ubiquitin mediated proteolysis of cell cycle regulatory proteins and oncogenesis and epigenetic variability and the evolution of human cancer Evolutionary Psychology, Public Policy and Personal

Decisions Charles Crawford, Catherine Salmon, 2004-05-20 During the last 15 years human sociobiology has metamorphosed into evolutionary psychology. It is concerned with the social problems and stresses hominid and primate ancestors encountered; the psychological mechanisms natural selection shaped to deal with these stresses; and the way those ancient mechanisms work now. Evolutionary psychologists are making great progress in expanding the understanding of human nature; however, this knowledge has had little impact on policymakers and legislators. Supreme Court justices and managers seldom consult evolutionary psychologists to help with their deliberations. When faced with private decisions, few individuals ask themselves how a Darwinian perspective might help them. This volume's aim is to start the process of using theory and findings of evolutionary psychology to help make the world a better place to live. This book takes evolutionary psychology explicitly into applied areas in a way no other book has. It includes a reasonable scope of applications from pornography to psychopaths and from morality to sex differences in the workplace. An applications section provides concrete ideas for dealing with social and policy issues, including chapters on women in the workplace, rape, and child support. Providing good coverage of basic issues and theory of the field, this book gives lay people and law policymakers appropriate background to fully understand the applications chapters. Part II provides information on basic psychological mechanisms for group living, including chapters on emotions, reciprocity, and legal reasoning, and self-deception that impact on how well public policy and law function. The material in the first two sections provides an intellectual basis for the chapters in the third part of the book, which deals with the application of evolutionary psychology to a variety of substantive areas related to public policy and personal decisions. A political scientist concludes the book with a commentary on evolutionary psychology and public policy. The book is designed to serve as a stand-alone text in evolutionary psychology and public policy that can be used in a variety of disciplines such as psychology, social work, law, and psychology and public policy.

The Mouse in Biomedical Research, 2006-12-04 History Wild Mice and Genetics the first volume in the four-volume set. The Mouse in Biomedical Research provides information about the history, biology, and genomics of the laboratory mouse *Mus musculus*, as well as basic information on maintenance and use of mouse stocks. Mouse origins and relationships are covered in chapters on history, evolutionary taxonomy, and wild mice. Genetics and genomics of the mouse are covered in chapters on genetic nomenclature, gene mapping, cytogenetics, and the molecular organization of the mouse genome. Maintenance of laboratory mice is described in chapters on breeding systems for various types of strains and stocks and genetic monitoring. Use of the mouse as a model system for basic biomedical research is described in chapters on chemical mutagenesis, gene trapping, pharmacogenetics, and embryo manipulation. The information in Volume 1 serves as a primer for scientists new to the field of mouse research.

Genes in Conflict Austin Burt, Robert Trivers, Austin Burt, 2009-06-30 Covering all species from yeast to humans, this is the first book to tell the story of selfish genetic elements that act narrowly to advance their own replication at the expense of the larger organism.

Foundations of Evolutionary Psychology Charles Crawford, Dennis Krebs, 2012-10-12

Evolutionary psychology is concerned with the adaptive problems early humans faced in ancestral human environments the nature of the psychological mechanisms natural selection shaped to deal with those ancient problems and the ability of the resulting evolved psychological mechanisms to deal with the problems people face in the modern world Evolutionary psychology is currently advancing our understanding of altruism moral behavior family violence sexual aggression warfare aesthetics the nature of language and gender differences in mate choice and perception It is helping us understand the relationships between cognitive science developmental psychology behavior genetics personality and social psychology Foundations of Evolutionary Psychology provides an up to date review of the ideas issues and applications of contemporary evolutionary psychology It is suitable for senior undergraduates first year graduate students or professionals who wish to become conversant with the major issues currently shaping the emergence of this dynamic new field It will be interesting to psychologists anthropologists sociologists economists philosophers cognitive scientists and anyone interested in using new developments in the theory of evolution to gain new insights into human behavior

Evolution in Four Dimensions, revised edition Eva Jablonka, Marion J. Lamb, 2014-03-21 A pioneering proposal for a pluralistic extension of evolutionary theory now updated to reflect the most recent research This new edition of the widely read Evolution in Four Dimensions has been revised to reflect the spate of new discoveries in biology since the book was first published in 2005 offering corrections an updated bibliography and a substantial new chapter Eva Jablonka and Marion Lamb's pioneering argument proposes that there is more to heredity than genes They describe four dimensions in heredity four inheritance systems that play a role in evolution genetic epigenetic or non DNA cellular transmission of traits behavioral and symbolic transmission through language and other forms of symbolic communication These systems they argue can all provide variations on which natural selection can act Jablonka and Lamb present a richer more complex view of evolution than that offered by the gene based Modern Synthesis arguing that induced and acquired changes also play a role Their lucid and accessible text is accompanied by artist physician Anna Zeligowski's lively drawings which humorously and effectively illustrate the authors' points Each chapter ends with a dialogue in which the authors refine their arguments against the vigorous skepticism of the fictional I M for Ipcha Mistabra Aramaic for the opposite conjecture The extensive new chapter presented engagingly as a dialogue with I M updates the information on each of the four dimensions with special attention to the epigenetic where there has been an explosion of new research Praise for the first edition With courage and verve and in a style accessible to general readers Jablonka and Lamb lay out some of the exciting new pathways of Darwinian evolution that have been uncovered by contemporary research Evelyn Fox Keller MIT author of Making Sense of Life Explaining Biological Development with Models Metaphors and Machines In their beautifully written and impressively argued new book Jablonka and Lamb show that the evidence from more than fifty years of molecular behavioral and linguistic studies forces us to reevaluate our inherited understanding of evolution Oren Harman The New Republic It is not only an enjoyable read replete with ideas and facts of

interest but it does the most valuable thing a book can do it makes you think and reexamine your premises and long held conclusions Adam Wilkins BioEssays **Sexual Conflict** Göran Arnqvist, Locke Rowe, 2013-11-28 The past decade has seen a profound change in the scientific understanding of reproduction The traditional view of reproduction as a joint venture undertaken by two individuals aimed at replicating their common genome is being challenged by a growing body of evidence showing that the evolutionary interests of interacting males and females diverge This book demonstrates that despite a shared genome conflicts between interacting males and females are ubiquitous and that selection in the two sexes is continuously pulling this genome in opposite directions These conflicts drive the evolution of a great variety of those traits that distinguish the sexes and also contribute to the diversification of lineages Göran Arnqvist and Locke Rowe present an array of evidence for sexual conflict throughout nature and they set these conflicts into the well established theoretical framework of sexual selection The recognition of conflict between the sexes is transforming our theories for the evolution of mating systems and the sexes themselves Written by two top researchers in the field Sexual Conflict is the first book to describe this transformation It is a must read for all scholars and students interested in the evolutionary biology of reproduction *Unravelling Cancer Signaling Pathways: A Multidisciplinary Approach* Kakoli Bose, Pradip

Chaudhari, 2019-11-25 Unravelling the intricate cell signalling networks and their significance in cancer poses major intellectual challenge Keeping this in mind the book aims at understanding the mechanism of action of different proteins and their complexes in the cancer signalling pathways Hence the proposed book that comprises 20 chapters provides a comprehensive introduction on cell signalling its alterations in cancer molecules that have been popular targets as well as the ones that are emerging as targets In addition it discusses different forms of therapy that are coming up for its treatment Other than that a major portion of the book is focused on studying different disciplines at the interface of biology and other areas of science that are being used to understand cancer biology in depth **PSYCHOLOGICAL SUPPORT BY**

COGNITIVE BEHAVIORAL THERAPY FOR BARDET-BIEDL SYNDROME Edenilson Brandl, Bardet Biedl Syndrome BBS is a complex multi system genetic disorder that poses unique challenges for those affected and their families This syndrome not only encompasses a range of physical symptoms such as obesity retinal degeneration and kidney dysfunction but also carries significant psychological implications Individuals living with BBS often face emotional and mental health hurdles including anxiety depression and feelings of isolation Recognizing and addressing these challenges is crucial for fostering resilience and improving quality of life In this book I aim to bridge the gap between genetic understanding and psychological support by presenting Cognitive Behavioral Therapy CBT as a powerful tool for managing the emotional aspects of living with Bardet Biedl Syndrome The principles of CBT can empower individuals to confront their fears reshape negative thought patterns and develop healthier coping strategies By incorporating insights from genetics psychology and personal experiences this book serves as a comprehensive guide for patients families and healthcare providers Each chapter delves

into essential topics beginning with an exploration of Bardet Biedl Syndrome and its associated traumas moving through foundational concepts of genetics and psychology and culminating in practical CBT techniques tailored to the unique needs of individuals facing this syndrome Whether you are a patient navigating the emotional landscape of BBS a caregiver seeking tools to support a loved one or a healthcare professional looking to enhance your therapeutic approach this book is designed to be a valuable resource It is my hope that this work not only informs but also inspires a collaborative approach to psychological care for those affected by Bardet Biedl Syndrome Together we can foster a deeper understanding of the interplay between genetics and mental health ultimately enhancing the lives of individuals living with this condition I would like to express my gratitude to all the individuals families and professionals who have shared their experiences and insights Your stories have shaped this book and underscore the importance of psychological support in the journey of living with Bardet Biedl Syndrome

PSYCHOLOGICAL SUPPORT BY COGNITIVE BEHAVIORAL THERAPY FOR XERODERMA PIGMENTOSUM Edenilson Brandl, In a world where the complexities of genetic disorders are increasingly recognized Xeroderma Pigmentosum XP stands out as a profound challenge not only due to its physical manifestations but also for the psychological toll it takes on those affected XP is a rare genetic condition characterized by extreme sensitivity to ultraviolet UV rays leading to a heightened risk of skin cancers and other related health issues However the impact of this disorder extends far beyond the physical it often results in profound psychological distress including anxiety depression and social isolation This book aims to bridge the gap between the biological realities of Xeroderma Pigmentosum and the psychological support that can be offered through Cognitive Behavioral Therapy CBT By integrating the latest findings in genetics epigenetics and behavioral science this text seeks to provide a comprehensive resource for clinicians caregivers and individuals living with XP The journey through Xeroderma Pigmentosum is not merely about managing symptoms it is about fostering resilience self acceptance and emotional well being This book explores various facets of psychological support offering practical strategies and therapeutic tools that can empower individuals to navigate the complexities of living with a genetic disorder As we delve into topics such as trauma genetic counseling and personalized therapeutic approaches it is my hope that readers will find solace and strength This work is designed not only to educate but also to inspire hope and encourage a proactive approach to mental health I would like to extend my gratitude to the countless researchers clinicians and individuals who have shared their insights and experiences enriching this book with their knowledge Their contributions remind us that while genetic disorders like Xeroderma Pigmentosum present significant challenges they also provide opportunities for growth understanding and compassion Thank you for embarking on this journey with me Together let us strive to illuminate the path toward psychological support and well being for those affected by Xeroderma Pigmentosum

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