

# Gene Expression and Its Discontents

The Social Production  
of Chronic Disease

RODRICK WALLACE  
DEBORAH WALLACE

# Gene Expression And Its Discontents

**J Ma**



## Gene Expression And Its Discontents:

**Gene Expression and Its Discontents** Rodrick Wallace, Deborah Wallace, 2016-11-23 This book describes how epigenetic context in a large sense affects gene expression and the development of an organism using the asymptotic limit theorems of information theory to construct statistical models useful in data analysis The approach allows deep understanding of how embedding context affects development We find that epigenetic information sources act as tunable catalysts directing ontogeny into characteristic pathways a perspective having important implications for epigenetic epidemiology In sum environmental stressors can induce a broad spectrum of developmental dysfunctions and the book explores a number of pandemic chronic diseases using U S data at different scales and levels of organization In particular we find the legacy of slavery has been grossly compounded by accelerating industrial decline and urban decay Individual chapters are dedicated to obesity and its sequelae coronary heart disease cancer mental disorders autoimmune dysfunction Alzheimer s disease and other conditions Developmental disorders are driven by environmental factors channeled by historical trajectory and are unlikely to respond to medical interventions at the population level in the face of persistent individual and community stress Drugs powerful enough to affect deleterious epigenetic programming will likely have side effects leading to shortened lifespan Addressing chronic conditions and developmental disorders requires significant large scale changes in public policy and resource allocation *Gene Expression and Its Discontents* Rodrick Wallace, Deborah Wallace, 2010 *Consciousness, Cognition and Crosstalk: The Evolutionary Exaptation of Nonergodic Groupoid Symmetry-Breaking* Rodrick Wallace, 2021-10-20 This book makes application to the dynamics of arousal and distraction and to other examples A modified version of the Kadanoff picture of phase transitions in consciousness emerges from the Morse Function itself in a surprisingly standard manner closely associated with the breaking of groupoid symmetries driven by fundamental equivalence class algebras Although this is far indeed from the familiar world of physical theory it should be possible on the basis of the probability models developed in the book to develop new statistical tools for the analysis of observational and empirical data regarding cognition and consciousness *Right-to-Work Laws and the Crumbling of American Public Health* Deborah Wallace, Rodrick Wallace, 2018-02-16 This book discusses the socioeconomic effects of Right to Work RTW laws on state populations RTW laws forbid requiring union membership even at union represented worksites The core of the 22 long term RTW states was the Confederacy cultural descendants of rigidly hierarchical agrarian feudal England RTW laws buttress hierarchy and power imbalance which unions minimize at the worksite and by encouraging higher educational attainment social mobility and individual empowerment through group validation Contrary to claims of RTW proponents RTW and non RTW states do not differ significantly in unemployment rates RTW states have higher poverty rates lower median household incomes and lower educational attainment on average and median than non RTW states RTW states on average and median have lower life expectancy higher obesity prevalence and higher rates of all cause mortality

early mortality from chronic conditions child mortality and risk behaviors than non RTW states The higher mortality rates result in startlingly higher annual numbers of years of life lost before age 75 Stroke mortality at age 55 64 in RTW states results in nearly 10 000 years annually lost in excess of what it would be if the mortality rate were that of non RTW states A review of respected publications describes the physiological mechanisms and epidemiology of accelerated aging due to socioeconomic stress Unions challenge hierarchy directly at work sites and indirectly through encouraging college education social mobility and community and political engagement How startling that feudal hierarchy lives in 21st century America shaping vast differences between states in macro and micro economics educational attainment innovation life expectancy obesity prevalence chronic disease mortality infant and child mortality risk behaviors and other public health markers Readers will gain insight about the coming clash between feudal individualism and adaptive collectivism and in the last chapter on ways to win the clash by missionary work for collectivism

### **Cognitive Dynamics on Clausewitz Landscapes**

Rodrick Wallace, 2019-08-20 This book applies cutting edge methods from cognitive and evolutionary theories to develop models of conflict between hierarchically structured cognitive entities under circumstances of imprecision uncertainty and stress Characterized as friction and the fog of war by the Prussian military theorist Carl von Clausewitz such conditions impair institutional cognition in real time conflict and pose a real and continuing threat to organizations such as the US military In a linked collection of formal essays and a mathematical appendix the book explores different aspects of cognitive and evolutionary process as conducted under the direction of doctrine that acts as a kind of genome for retention of what is learned through Lamarckian evolutionary selection pressures armies and corporate entities learn from conflict and incorporate that learning into their ongoing procedures The book proposes models and policy solutions for strategic competence A central feature of the book is a formal description of the famous OODA loop of the US military theorist John Boyd in terms of the Data Rate Theorem that links control and information theories That description is expanded to cover more fully the impact of stochastic fog of war effects on tactical and operational scales of conflict Subsequent chapters examine in more detail the role of doctrine and the particular effect of embedding culture on cognitive and Lamarckian evolutionary processes associated with conflict on tactical operational and strategic scales and levels of organization A scientifically sophisticated exercise in applied mathematics history evolutionary theory and ecosystem theory this book will be appropriate for researchers and students interested in defense security and international relations as well as non academic career professionals in government and industry

### **Politics, Hierarchy, and Public Health**

Deborah Wallace, Rodrick Wallace, 2019-06-11 Steep socioeconomic hierarchy in post industrial Western society threatens public health because of the physiological consequences of material and psychosocial insecurities and deprivations Following on from their previous books the authors continue their exploration of the geography of early mortality from age related chronic conditions of risk behaviors and their health outcomes and of infant and child mortality all due to rigid hierarchy They divide

the 50 states into those that gave their electoral college votes to Trump and those that gave theirs to Clinton in the 2016 presidential election and compare the two sets for socioeconomic and public health profiles They deliberately apply only simple standard statistical methods in the public health analyses t test Mann Whitney test bivariate regression and backward stepwise multivariate regression The book assumes familiarity with basic statistics The authors argue that the unequal power relations that result in eroding public health in the nation and in particular in the Trump voting states largely cascade from the collapse of American industry and they analyze the Cold War roots of that collapse In two largely independent chapters on economics they explore both the suppression of countervailing forces such as organized labor and the diversion of technical resources to the military as essential foundations to the population level suffering that expressed itself in the 2016 presidential election This interdisciplinary book has several primary audiences creators of public policies such as legislators and governmental staff public health professionals and social epidemiologists economists labor union professionals civil rights advocates political scientists historians and students of these disciplines from public health through the social sciences

Computational Psychiatry Rodrick Wallace, 2017-04-20 This book explores mental disorders from a uniquely evolutionary perspective Although there have been many attempts to mathematically model neural processes and to some extent their dysfunction there is very little literature that models mental function within a sociocultural socioeconomic and environmental context Addressing this gap in the extant literature this book explores essential aspects of mental disorders recognizing the ubiquitous role played by the exaptation of crosstalk between cognitive modules at many different scales and levels of organization the missing heritability of complex diseases and cultural epigenetics Further it introduces readers to valuable control theory tools that permit the exploration of the environmental induction of neurodevelopmental disorders as well as the study of the synergism between culture psychopathology and sleep disorders offering a distinctively unique resource

**Mathematical Essays on Embodied Cognition** Rodrick Wallace, 2025-05-13 This book provides a unique formal foundation for the development of statistical tools useful in the exploration of observational and experimental data related to embodied cognition The asymptotic limit theorems of information and control theories can be used to construct statistical tools analogous to but different from regression models for the study of the often highly punctuated cognitive phenomena embedded in and hence influenced by a surrounding ecosystem of which the phenomena are themselves part The book builds probability models based on those theorems that incorporate embodiment at a number of scales and levels of organization ranging from the effects of stress on the immune system within a higher organism through institutional and machine cognition under challenge from adversaries to the failure of public health institutions under pathogen challenge In distinct contrast to the existing literature many detailed worked out examples provide templates for sophisticated readers to build their own model tool constructs

**Urban Alchemy** Mindy Thompson Fullilove, 2013-06-04 What if divided neighborhoods were causing public health problems What if a new approach to planning and design could tackle both the built environment

and collective well being at the same time What if cities could help each other Dr Mindy Fullilove the acclaimed author of *Root Shock* uses her unique perspective as a public health psychiatrist to explore ways of healing social and spatial fractures simultaneously Using the work of French urbanist Michel Cantal Dupart as a guide Fullilove takes readers on a tour of successful collaborative interventions that repair cities and make communities whole

**A Primer on Christian Ethics** Luke Bretherton, 2023-11-09 An introduction to Christian ethics that provides a new constructive framework for Christian moral and political thought It draws on and integrates classic sources and approaches with contemporary liberationist and critical voices while making the ethical relationship between human and nonhuman life a central concern

*Essays on Strategy and Public Health* Rodrick Wallace, 2022-04-01 This book is a collection of essays that explore commonalities and contrasts between strategy in armed conflict and strategy in public health The first part uses the asymptotic limit theorems of information and control theories to study strategy as an exchange of messages between adversaries in the context of underlying power relations The messages to be exchanged are constructed from an alphabet of tactics available to each contender in a large sense The second part of the book explores four case histories from this perspective ranging across agribusiness generated pandemics through tuberculosis and COVID 19 The final chapter attempts a strategic synthesis applicable more specifically to public health than to the remarkably and disturbingly close parallel of armed conflict Taking a unique approach to public health tactics and strategy this volume will be of interest to social epidemiologists public health economists public policy scientists as well as public health researchers and practitioners

*An Ecosystem Approach to Economic Stabilization* Rodrick Wallace, 2015-02-11 The creation of economic institutions that can function well under substantial uncertainties *Black Swans* is analogous to the dilemmas confronting our hunter gatherer forefathers in the face of large scale ecological unpredictability The ultimate solution was not the development of a super hunter gatherer technology that could ride out repeated catastrophe but rather the invention in neolithic times of culturally adapted farmed ecosystems constructed to maximize food yield and minimize risks of famine Recent advances in evolutionary and ecosystem theory applied to economic structure and process may permit construction of both new economic theory and new tools for data analysis that can help in the design of more robust economic institutions This may result in less frequent and less disruptive transitions and enable the design of culturally specific systems less affected by those that do occur This unique and innovative book applies cutting edge methods from cognitive science and evolutionary theory to the problem of the necessary stabilization of economic processes At the core of this book is the establishment of a statistics like toolbox for the study of empirical data that is consistent with generalized evolutionary approaches This toolbox enables the construction of both new economic theories and methods of data analysis that can help in the design of more robust economic institutions This in turn will result in less frequent and less disruptive *Black Swans* and enable as well the design of culturally specific systems less affected by those that do occur

**The Mind and Its Discontents** Grant Gillett, 2009-04-30 The author argues that to

understand mental illness fully requires more than a study of biological models of mental processes and pathologies He stresses that the causes of human mental disorders are to be found in human interactions

**Essays on the Extended Evolutionary Synthesis** Rodrick Wallace, 2023-05-18 From the punctuated equilibrium of Eldredge and Gould through Lewontin's triple helix and the various visions and revisions of the Extended Evolutionary Synthesis EES of Laland and others both data and theory have demanded an opening up of the 1950's Evolutionary Synthesis that so firmly wedded evolutionary theory to the mathematics of gene frequency analysis It can however be argued that a single deep and comprehensive mathematical theory may simply not be possible for the almost infinite varieties of evolutionary process active at and across the full range of scales of biological social institutional and cultural phenomena Indeed the case history of meme theory should have raised a red flag that narrow gene centered models of evolutionary process may indeed have serious limitations What is attempted here is less grand but still broader than a gene centered analysis Following the instruction of Maturana and Varela that all living systems are cognitive in a certain sense and that living as a process is a process of cognition the asymptotic limit theorems of information and control theories that bound all cognition provide a basis for constructing an only modestly deep but wider ranging series of probability models that might be converted into useful statistical tools for the analysis of observational and experimental data related to evolutionary process The line of argument in this series of interrelated essays proves to be surprisingly direct

It's Reproduction, Openly John McGreal, 2017-04-18 John McGreal's three new books *It's Reproduction* *Contently* *It's Revolution* *Actively* and *It's Transformation* *Contently* continue the *It Series* published by Matador since 2010

*The New Mind-Body Science of Depression* Vladimir Maletic, Charles Raison, 2017-06-13 The scientific and therapeutic implications of a new way of understanding a common disease Depression has often been studied but this multifaceted disease remains far from understood Here leading researchers present a major new view of the disorder that synthesizes multiple lines of scientific evidence from neurobiology mindfulness and genetics A comprehensive mind body approach to understanding evaluating and treating this disease

**COVID-19 in New York City** Deborah Wallace, Rodrick Wallace, 2020-11-10 This book is the first social epidemiological study of COVID 19 spread in New York City NYC the primary epicenter of the United States New York City spread COVID 19 throughout the United States The context of epicenter formation determined the rapid extreme rise of NYC case and mortality rates Decades of public policies destructive of poor neighborhoods of color heavily determined the spread within the City Premature mortality rates revealed the weathering of policy targeted communities accelerated aging due to chronic stress COVID attacks the elderly more severely than those under the age of 60 Communities with high proportions of prematurely aged residents proved fertile ground for COVID illness and mortality The very public policies that created swaths of white wealth across much of Manhattan and parts of Brooklyn destroyed the human diversity needed to ride out crises Topics covered within the chapters include Premature Death Rate Geography in New York City Implications for COVID 19 NYC COVID Markers at the ZIP Code Level Prospero's

New Castles COVID Infection and Premature Mortality in the NY Metro Region Pandemic Firefighting vs Pandemic Fire Prevention Conclusion Scales of Time in Disasters An exemplary study in health disparities COVID 19 in New York City An Ecology of Race and Class Oppression is essential reading for social epidemiologists public health researchers of health disparities those in public service tasked with addressing these problems and infectious disease scientists who focus on spread in human populations of new zoonotic diseases The brief also should appeal to students in these fields civil rights scholars science writers medical anthropologists and sociologists medical and public health historians public health economists and public policy scientists     The Aging Brain Timothy R. MD Jennings, 2018-06-19 While growing older is inevitable many of the troubles we associate with aging including dementia disability and an increased dependence on others are not The choices we make now can help us to maintain our vitality a sharp mind and our independence as we age Filled with simple everyday actions we can take to avoid disease promote vitality and prevent dementia and late onset Alzheimer s The Aging Brain is an easy to use guide to maintaining brain and body health throughout our lives Based on solid up to date scientific research the interventions explained in this book not only prevent progression toward dementia even in those who have already shown mild cognitive impairment they also reduce disability and depression and keep people living independently longer than those who do not practice these methods For anyone hoping to slow the aging process as well as anyone who acts as a caregiver to someone at risk of or already beginning to suffer from dementia and other age related diseases this book offers a hopeful healthy way forward     **The Philosophy of Biology** Marjorie Grene, David J. Depew, 2004-08-02 Examines how the philosophy of biology has evolved to our current understanding     *5-HT2B Receptors* Luc Maroteaux, Laurent Monassier, 2021-03-12 This contributed volume provides a comprehensive assessment of the roles played by 5 HT2B receptors in humans These receptors have been shown to play an important role in the cardiac intestinal and central nervous systems as well as in bone marrow formation and growth In this book expert researchers present their findings on molecular and physiological pathological aspects of 5 HT2B receptors The molecular section includes a discussion of the genetics of 5 HT2B receptors and impulse control The physiological section covers their role in many biological systems including the nervous system the heart and the lungs



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