

## REVIEW ARTICLE

# Responding to the challenge of diabetic nephropathy: the historic evolution of detection, prevention and management

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Diabetic nephropathy remains a leading cause of end-stage renal disease (ESRD) in western societies, accounting for about 40% of all patients beginning renal replacement therapy. Patients with type 2 diabetes comprise the largest and fastest growing single disease group requiring renal replacement therapy. In addition to the high risk of progression to ESRD, diabetic nephropathy is associated with a very high risk of cardiovascular (CV) morbidity and mortality, which is not abolished by dialysis or renal transplantation. Over the past two decades there have been major advances in our attempts to understand the risk factors for development and progression of diabetic renal dysfunction, that have resulted in better characterisation of the natural history of this serious complication. Effective antihypertensive treatment and aggressive management of CV risk factors have helped improve the prognosis of patients with overt diabetic nephropathy, particularly those with type 1 diabetes. However, for the larger proportion of patients with type 2 diabetes, the renal and CV prognoses are still poor. Recently, more focus has been placed on treating diabetic patients early in order to prevent future organ damage. Microalbuminuria is an

important intermediary end-point that correlates strongly with CV mortality in all people with diabetes as well as progression to ESRD in people with type 1 diabetes. We can now identify patients at high risk early in the natural history of their disease. Clinical trials have uniformly shown that in the early disease history of diabetes, achievement of both tight glucose control, eg, HbA1c <7%, and tight blood pressure control eg, blood pressure <140/90 mm Hg, substantially reduces CV events and progression of nephropathy. In latter stages of diabetes, tight blood pressure control has a relatively greater impact on CV risk reduction as compared to tight glucose control. The challenge for the practising physician, however, is to maximally utilise the available modalities of treatment to prevent progression to overt nephropathy and reduce the associated high risk of CV morbidity and mortality. In the early 21st century, the patient with type 2 diabetes will need to be the specific focus for use of these preventive treatment modalities due to the geometric risk in the international incidence of this disease.

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## Introduction

Diabetic nephropathy (DN) remains a leading cause of end-stage renal disease (ESRD) in western societies. Diabetes is the single largest cause of ESRD in American and European adults, accounting for over one-third of all patients enrolling onto renal support therapy programmes.<sup>1–3</sup> Approximately 50–60% of patients with diabetic nephropathy have type 2 diabetes. Indeed because of the increasing prevalence of type 2 diabetes and the longer survival of patients, they now comprise the largest and fastest growing single disease group requiring renal replacement therapy in the general population.

Diabetic nephropathy is conventionally defined as

the clinical syndrome characterised by persistent albuminuria (>300 mg/24 h or >200 µg/min), detected on two or more occasions over a period of several months. Patients invariably demonstrate associated hypertension, a predictable and relentless decline in glomerular filtration rate (GFR) and a progressive increase in proteinuria.<sup>4</sup> In this review article, we shall concentrate on the importance of early detection of nephropathy and the role of available treatment modalities to improve renal and cardiovascular outcomes.

## Epidemiology

The cumulative incidence of nephropathy appears to be similar in both type 1 and type 2 diabetes.<sup>4,5</sup> Traditionally, nephropathy occurs in 30–40% of patients with type 1 diabetes. The majority of these patients will, without specific intervention, develop ESRD within 10–15 years from the onset of overt DN.

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# Responding To The Challenge Of Evolution

**Philip D. Cooper**



## **Responding To The Challenge Of Evolution:**

**Responding to the Challenge of Evolution** Kevin Logan, 2005 The idea that the earth may not be millions of years old is not taken seriously by most of the population until it is taught in school Kevin Logan has written a readable intelligent and entertaining guide to the debate and to the issues behind it Are the creationists out of their depth Or is Darwin about to join Marx and Freud in the heap of fallen pillars of modernity This book sets out the implications of the latest research to help readers form their own opinions

**Jewish Tradition and the Challenge of Darwinism** Geoffrey Cantor, Marc Swetlitz, 2008-09-15 Darwin's theory of evolution transformed the life sciences and made profound claims about human origins and the human condition topics often viewed as the prerogative of religion As a result evolution has provoked a wide variety of religious responses ranging from angry rejection to enthusiastic acceptance While Christian responses to evolution have been studied extensively little scholarly attention has been paid to Jewish reactions Jewish Tradition and the Challenge of Darwinism is the first extended meditation on the Jewish engagement with this crucial and controversial theory The contributors to Jewish Tradition and the Challenge of Darwinism from several academic disciplines and two branches of the rabbinate present case studies showing how Jewish discussions of evolution have been shaped by the intersections of faith science philosophy and ideology in specific historical contexts Furthermore they examine how evolutionary theory has been deployed when characterizing Jews as a race both by Zionists and by anti Semites Jewish Tradition and the Challenge of Darwinism addresses historical and contemporary as well as progressive and Orthodox responses to evolution in America Europe and Israel ultimately extending the history of Darwinism into new religious domains

**Responding to the Challenge** Philip D. Cooper, 1986 **The Challenge of Conflict: International Law Responds** Ustina Dolgopol, Judith G. Gardam, 2006-03-29 The papers in this collection bring together a wide and diverse range of viewpoints to consider how the catastrophic consequences of deadly armed conflict can be addressed Commentators are drawn from the United Nations and its agencies key non governmental organisations world class academic circles senior members of government leading human rights lawyers and judges with experience in international criminal law These experts address deadly conflict in a comprehensive fashion covering all its stages the causes and prevention of conflict conflict resolution and peace building international criminal law and international humanitarian law and the role of the United Nations humanitarian organisations and peacekeepers in post conflict situations This collection is for those with an existing interest and expertise in international law international relations peace studies and criminal justice as well as for those who wish to become conversant with emerging developments in these fields

**Alasdair MacIntyre's Views and Biological Ethics** Sherel Jeevan Joseph Mendonsa, 2022-11-29 Some of the most fundamental questions which moral philosophers have been grappling with include What makes us moral beings Is morality a product of culture or nature or both Are ethical norms and principles universal and unchanging or are they relative being rooted in specific socio political and historical contexts Can ethical conclusions be

derived from descriptive statements This book addresses these and similar questions through a comparative study between Alasdair MacIntyre's views and biological ethics It discusses how both MacIntyre's views and biological ethics highlight the importance of human biology for human morality Based on this discussion the book proposes that both the rational and the biological including the emotional dimensions of humans have to be considered in order to understand the complex and multi-layered phenomenon of human morality As such it will prove to be a valuable resource for undergraduate and postgraduate students of moral philosophy especially those interested in studying the biological approach toward ethics Thomistic Aristotelian ethics and metaethics

**Evolution and Religious Creation Myths : How Scientists Respond** Paul F. Lurquin School of Molecular Biosciences Washington State University, Linda Stone Department of Anthropology Washington State University, 2007-06-08 Polls show that 45% of the American public believes that humans were created about 10 000 years ago and that evolution is non-existent Another 25% believes that changes in the natural world are directed by a supernatural being with a particular goal in mind This thinking clashes frontally with scientific findings obtained in the past 150 years A large portion of the general public espouses the views of creationists and their descendants and ignores or is unaware of scientific advances Critical thinking about the natural world within a scientific framework is lacking in the USA and many parts of the world This manuscript provides a multidisciplinary explanation and defense for the science of evolution not just Darwinism as it is being challenged by arguments for intelligent design and other creation myths It draws in the life physical and social sciences and recent studies of human evolution that rely much on the idea of change over time which is evolution writ large It puts the evolution ID issue into international perspective by including opinions held in world religions other than Christianity It is clearly written and also can easily be used as a guide for those with some science background The authors make a convincing case that other books do not achieve this as much as they do in this work The book is written for a whole spectrum of educated people including teachers and teachers in training who are interested in the broad issues of the origins of the universe life and humans and who may not quite grasp the potential magnitude of the negative influence on all of science education of people embracing creationist and ID thinking This includes high school teachers and people on boards of education and in municipal governments anyone involved in education It could be used also in college courses such as contemporary social issues and Science and Society sometimes team taught by sociologists and scientists The authors show that when they are teleological dogmatic or politically inspired religious and creation myths threaten scientific efforts The book does not require any extensive knowledge of science The principle of change over time pervades all of science from cosmology to the search for the origin for life to human physical and cultural evolution The book educates readers on scientific matters that overwhelmingly support the idea of evolution not only in the living world but also in physical and social science It explains too how evolution physical and biological is a random unguided process whose roots can be already found in quantum physics

**Sovereignty Under Challenge** Nathan Glazer, 2017-09-20 Sovereignty the authority of a state to

wield ultimate power over its territory its citizens its institutions is everywhere undergoing change as states respond in various ways to the challenges posed from above and below Above the state is the widening net of international institutions and treaties dealing with human rights trade investment and monetary affairs and below it are rising claims within states from long resident groups discontented with the political order and from new migrants testing its authority Sovereignty under Challenge deals with a range of such challenges and responses analyzed in authoritative studies by leading scholars The introductory chapter sets forth the theme that sovereignty is asserted clearly but often unpredictably when governments respond to challenge It suggests ways of classifying these responses as variables that help explain the changing nature of sovereignty Part 1 The Citizen and the State treats the rising tide of dual citizenship and the concerns this arouses in the United States the work of national human rights commissions in Asia and the challenge posed to the state by the Falungong movement in China The two chapters in Part 2 The Government as Decision Maker examine Japan s response to global warming and the problems of the World Health Organization in orchestrating collaboration among Southeast Asian states in implementing infectious disease control Part 3 Sovereignty and Culture looks at conflicts engendered by outside change on indigenous economic cultural and legal institutions in India Fiji Indonesia and Malaysia The chapters in Part 4 Sovereignty and the Economy analyze the economic and cultural instability induced by Chinese migration to Russia s far east the impact on state sovereignty brought about by transnational regulatory campaigns and social activism the question of indigenous land rights in the Philippines and the impact of transnational corporations on information technology in Asia A concluding chapter offers a global assessment of the current status of state sovereignty

**The Response of Discourse Ethics to the Moral Challenge of the Human Situation as Such and Especially Today** Karl-Otto Apel,2001 The need for a global ethics has its origin in the human situation as such i e in the fact of hominisation that has dismissed us from the natural security of animal instincts and thrown us into the state of freedom and especially in the present situation of humankind that is characterised by an extreme increase of external challenges to our co responsibility brought about by the results of natural science technology politics and economy and as it appears lacking internal resources of ethical reason The present book tries to show that the transcendental pragmatic approach to discourse ethics can reconstruct the genesis of this situation and provide a rational response to the external challenges to and the internal deficits of global ethics

**Evolution of Sleep** Patrick McNamara,Robert A. Barton,Charles L. Nunn,2010 This book is aimed at researchers and graduate students in neuroscience evolutionary biology and biological anthropology and to biomedical researchers studying sleep medicine

**Foundations of Biogeography** Mark V. Lomolino,Dov F. Sax,James H. Brown,2004-07 Foundations of Biogeography provides facsimile reprints of seventy two works that have proven fundamental to the development of the field From classics by Georges Louis LeClerc Comte de Buffon Alexander von Humboldt and Charles Darwin to equally seminal contributions by Ernst Mayr Robert MacArthur and E O Wilson these papers and book excerpts not only reveal biogeography s historical

roots but also trace its theoretical and empirical development Selected and introduced by leading biogeographers the articles cover a wide variety of taxonomic groups habitat types and geographic regions Foundations of Biogeography will be an ideal introduction to the field for beginning students and an essential reference for established scholars of biogeography ecology and evolution List of Contributors John C Briggs James H Brown Vicki A Funk Paul S Giller Nicholas J Gotelli Lawrence R Heaney Robert Hengeveld Christopher J Humphries Mark V Lomolino Alan A Myers Brett R Riddle Dov F Sax Geerat J Vermeij Robert J Whittaker **The New Science of the Paranormal** Carl Llewellyn Weschcke, Joe H. Slate, 2016-08-08 Use Scientific Research for Empowerment Growth and Success Sweep illusions away and use your mind for what it was intended to lift human consciousness to a higher level and make this world a better place for you and future generations The New Science of the Paranormal is a mind expanding exploration of the scientific proof for paranormal phenomena and the ways you can use your paranormal potential to take control of your life Discover a wealth of tools to create a life of greater success and happiness Through expanding conscious awareness of your inner powers and abilities you advance into the development of your Super Conscious Mind where limitations drop away and realization of your most cherished dreams becomes reality

*Toxicology* Hans Marquardt, Siegfried G. Schäfer, Roger O. McClellan, Frank Welsch, 1999-10-05 Toxicology is a comprehensive text for researchers and graduate students in toxicology and public health It addresses every aspect of the field starting with the fundamentals and incorporating such areas as organ toxicology applications and environmental toxicology In addition to covering the traditional subject matter of toxicology special emphasis has been placed on recent areas of interest such as risk assessment apoptosis and methodical developments Key Features Comprehensive text covering all aspects of the field of toxicology Analyzes the importance of toxicokinetics and metabolism as well as cellular targets for the mechanisms of toxic effects Identifies the various classes of chemical compounds responsible for the toxic effects Describes the approaches and methods used by various disciplines which investigate toxic effects and their prevention Adapted from a very successful German text this edition is completely revised and expanded The text is well illustrated with diagrams charts and tables *Evolution Evolving* Kevin N. Lala, Tobias Uller, Nathalie Feiner, Marcus Feldman, Scott F. Gilbert, 2024-09-24 A new account of the central role developmental processes play in evolution A new scientific view of evolution is emerging one that challenges and expands our understanding of how evolution works Recent research demonstrates that organisms differ greatly in how effective they are at evolving Whether and how each organism adapts and diversifies depends critically on the mechanistic details of how that organism operates its development physiology and behavior That is because the evolutionary process itself has evolved over time and continues to evolve The scientific understanding of evolution is evolving too with groundbreaking new ways of explaining evolutionary change In this book a group of leading biologists draw on the latest findings in evolutionary genetics and evo devo as well as novel insights from studies of epigenetics symbiosis and inheritance to examine the central role that developmental processes play in evolution

Written in an accessible style and illustrated with fascinating examples of natural history the book presents recent scientific discoveries that expand evolutionary biology beyond the classical view of gene transmission guided by natural selection Without undermining the central importance of natural selection and other Darwinian foundations new developmental insights indicate that all organisms possess their own characteristic sets of evolutionary mechanisms The authors argue that a consideration of developmental phenomena is needed for evolutionary biologists to generate better explanations for adaptation and biodiversity This book provides a new vision of adaptive evolution

*Returning Foreign Fighters: Responses, Legal Challenges and Ways Forward* Francesca Capone, Christophe Paulussen, Rebecca Mignot-Mahdavi, 2023-03-24 This book a follow up publication to the 2016 volume *Foreign Fighters under International Law and Beyond* zooms in on the responses that the international community and individual States are implementing in response to prospective and actual returning foreign fighters FFs and their families focusing on returnees from Syria and Iraq to European countries As States and international organisations are still learning by doing the role of the academic community is to help steer the process by bridging the divide between international standards and their implementation at the national level and between security concerns and human rights law Furthermore the academic community can and should assist in identifying ways forward that are both effective sustainable and international law compliant Those are ultimately the goals that the present volume seeks to pursue The observations recommendations and warnings included in this book will be useful in future debates on returning FFs both in the academic world and in the world of policy makers and practitioners as well as to the public at large Francesca Capone is Associate Professor of International Law at the Istituto DIRPOLIS of the Scuola Superiore Sant Anna in Pisa Italy Christophe Paulussen is Senior Researcher International Law at the T M C Asser Instituut in The Hague The Netherlands Rebecca Mignot Mahdavi is Lecturer in International Law at the Manchester International Law Centre University of Manchester School of Law in Manchester United Kingdom

*Developing Scaffolds in Evolution, Culture, and Cognition* Linnda R. Caporael, James R. Griesemer, William C. Wimsatt, 2014 Empirical and philosophical perspectives on scaffolding that highlight the role of temporal and temporary resources in development across concepts of culture cognition and evolution Scaffolding is a concept that is becoming widely used across disciplines This book investigates common threads in diverse applications of scaffolding including theoretical biology cognitive science social theory science and technology studies and human development Despite its widespread use the concept of scaffolding is often given short shrift the contributors to this volume from a range of disciplines offer a more fully developed analysis of scaffolding that highlights the role of temporal and temporary resources in development broadly conceived across concepts of culture cognition and evolution The book emphasizes reproduction repeated assembly and entrenchment of heterogeneous relations parts and processes as a complement to neo Darwinism in the developmentalist tradition of conceptualizing evolutionary change After describing an integration of theoretical perspectives that can accommodate different levels of analysis and connect various

methodologies the book discusses multilevel organization differences and reciprocity between individuals and institutions as units of analysis and perspectives on development that span brains careers corporations and cultural cycles Contributors Colin Allen Linnda R Caporael James Evans Elihu M Gerson Simona Ginsburg James R Griesemer Christophe Heintz Eva Jablonka Sanjay Joshi Shu Chen Li Pamela Lyon Sergio F Martinez Christopher J May Johann Peter Murmann Stuart A Newman Jeffrey C Schank Iddo Tavory Georg Theiner Barbara Hoeberg Wimsatt William C Wimsatt

**Urban Evolutionary Biology** Marta Szulkin, Jason Munshi-South, Anne Charmantier, 2020 Cities occupy about 3 per cent of the Earth's habitable land area and are home to one out of two humans worldwide both estimates are predicted to grow Urban space is thus becoming an important novel ecological niche for humans and wildlife alike Building on knowledge gathered by urban ecologists during the last half century evidence of evolutionary responses to urbanization has rapidly emerged Urban evolutionary biology is a nascent yet fast growing field of research and a fascinating testing ground for evolutionary biologists worldwide Urbanization offers a great range of opportunities to examine evolutionary processes because of the radically altered and easily quantifiable urban habitat and the large number of cities worldwide enabling rigorous replicated tests of evolutionary hypotheses Urban populations are increasingly exhibiting both neutral and adaptive evolutionary changes at levels ranging from genotypes to phenotypes The novelty of urban evolutionary biology is that these changes are driven by the cities we have built including effects of infrastructure pollution and social characteristics of our urban neighbourhoods It will thereby enrich the field of evolutionary biology with emergent yet incredibly potent new research themes where the urban habitat is key In a series of sixteen chapters written by leading evolutionary biologists working on urban drivers of evolution Urban Evolutionary Biology is the first academic book in the field It synthesizes current knowledge on evolutionary processes occurring literally on our doorstep across the globe and in each city independently Provided by publisher

**Children and AIDS** Margaret Lombe, Alex Ochumbo, 2017-05-08 The disproportional loss of individuals to HIV AIDS in their most productive years raises concerns over the welfare of surviving members of affected families and communities One consequence of the rapid increase in adult mortality is the rise in the proportion of children who are orphaned Sub Saharan Africa accounts for about 90 percent of these Mainly due to the staggering toll of HIV AIDS research effort has focused on treatment and prevention Children have received attention primarily in relation to mother to child transmission and paediatric AIDS These issues are important and compelling but fail to capture the whole story the unprecedented surge in the number of children made vulnerable by HIV AIDS In this book we reflect on the plight of children classified as vulnerable review interventions implemented to improve their welfare and grapple with the concept of vulnerability as it relates to human rights and the African child

**Integrated cardiovascular and neural system processes as potential mechanisms of behavior change** Marsha E. Bates, David Eddie, Paul M. Lehrer, Robert Nolan, Martin Siepmann, 2023-04-24

**Evolution** Mark Ridley, 1997 Covers topics ranging from the molecular clock to the



long standing mystery of homology and lab bench results such as the eyeless gene It includes articles by Darwin Fisher Haldane Dawkins Gould and Medawar *Biology, Evolution, and Human Nature* Timothy H. Goldsmith, William F. Zimmerman, 2000-11-16 Dieses Buch bietet eine ausgewogene Darstellung der Kerntheorien und Grundlagen des Evolutionsgedankens und macht deutlich wie diese Theorien das menschliche Verhalten beeinflussen Aus evolutionsgeschichtlicher Sicht werden die Verbindungen zwischen den einzelnen Stufen biologischer Komplexität zurckverfolgt von den Genen über das Nervensystem bis hin zu Tiergesellschaften und menschlichen Kulturen Analysiert wird die Geschichte der Evolutionstheorie von Darwin bis zur Gegenwart wobei ein besonderer Schwerpunkt auf der Molekularbiologie und der evolutionären Sozialtheorie liegt Enthalten sind auch neue Arbeiten zu Primatengesellschaften und der Entwicklungsgeschichte des Menschen Geschrieben von zwei hervorragenden Dozenten auf dem Gebiet der menschlichen Ethologie 12 00

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