

# Reflections on nutrition in biological anthropology

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## Funding information

Grant sponsorships: None

**KEYWORDS:** diet, human evolution, neolithic, nutrition transition, paleolithic

## 1 | INTRODUCTION

Some 50 years ago, and befittingly at an AAPA dinner, Stanley Garn delivered the Presidential Address, which he titled Nutrition in Physical Anthropology. In his address, Garn predicted, "a concern with nutrition in its broadest sense, including the physical form of the dietary and the energy balance will occupy us more rather than less in the years to come, as we channel our interests to ascertain the directions of evolutionary and physiological change..." (Garn, 1966). He specifically mentioned the nutritional underpinning of our interests in the evolution of the genus *Homo*, the diets of nonhuman primates, child growth, and sexual maturation, secular changes in adult body size, and growing evidence that obesity was replacing malnutrition in some populations.

In this essay, we will take up Garn's prediction and review the themes related to human nutrition that occupy us in 2018. We define nutrition broadly: the consumption of food and the effect of food energy and nutrients on body size, health, and function. Nutrition is an area of interest shared with nutritional scientists and public health professionals, but the anthropological lens provides a view that is more comparative and evolutionary. As biological anthropologists, we are interested in the nutrition of a wide range of contemporary populations, as well as that of historic and prehistoric populations and the hominins in our evolutionary past. We consider nutrition as a key environmental factor in shaping human variability and evolution, and use the principles of evolution to explain variation between populations in the present as well as the past. We also recognize the inseparable nature of human cultural and biological adaptation to the environment, and hence use the explanatory frameworks referred to as biocultural or biobehavioral to address the biological-cultural nexus in studying nutrition.

Three thematic areas have been prominent in the research of biological anthropologists in the past decade: diet in the evolution of the genus *Homo*, diet and nutrition in the transition from hunting and gathering to agriculture, and diet and nutrition in the current era of globalization. These thematic areas are defined by the time-period of interest and questions asked, but each is viewed as a transition in diet with measurable outcomes in terms of morphology and/or health. In the Paleolithic, major questions revolve around changes in the dietary niche of *Homo*, specifically the availability of dietary energy that enabled significant changes in the morphology (body size and brain size) observed. In the Neolithic, it is clear that the transition from foraging wild plant and animal species to the production of food via agriculture and animal husbandry changed the dietary niche in very significant ways. The timing and pace of this transition varied across geographic regions with the earliest dates at about 10,000 BCE. Questions of interest are related to how changes in nutritional ecology impacted body morphology and health in different geographical regions. In the current era, transitions in diet are associated with processes of industrialization and globalization that result in increases in food availability. Almost all human populations find themselves at some stage of this newest nutrition transition. Questions of interest revolve around the timing and pace of the transition in different populations, and the linkages between the changes in diet and the changes in body size, composition, and risk of chronic disease.

Here we will consider each of the three thematic areas in turn. First, we will highlight major points in their historical development. Second, drawing on the research of biological anthropologists in the past decade, we will provide illustrative examples of each of these themes. We note, however, that given the interdisciplinary nature of current research, many people are associated with more than one

# Reflections On Biological Research

**Igor Bascandziev, Claudia M.  
Roebers, Stephanie M. Carlson ,Loren  
Marulis**

## **Reflections On Biological Research:**

**Reflections on Biological Research. Ed. G. Gabbiani** Giulio GABBIANI, 1967      Meta-Philosophical Reflection on Feminist Philosophies of Science Maria Cristina Amoretti, Nicla Vassallo, 2015-12-21 This volume offers a meta philosophical reflection on feminist philosophies of science It emphasizes and discusses both the connections and differences between traditional philosophies of science and feminist philosophies of science The collection systematically analyses feminist contributions to the various philosophies of specific sciences Each chapter is devoted to a specific area of philosophy of science general philosophy of science philosophy of biology philosophy of climate sciences philosophy of cognitive sciences and neurosciences philosophy of economics philosophy of history and archaeology philosophy of logic and mathematics philosophy of medicine philosophy of psychology philosophy of physics and philosophy of social sciences Since some of these areas have so far rarely been addressed by feminist philosophers this new collection provides new angles and stimulates the debate on pivotal issues that are part and parcel of both traditional philosophies of science and feminist philosophies of science Using a range of different methodologies and styles the essays all show great clarity in both arguments and contents

Clinical Psychology Reflections Volume 4 Connor Whiteley, 2024-04-19 Clinical psychology applies psychological knowledge and theory to mental health conditions But psychology students and professionals know information in textbooks and lecture theatres miss real world issues sometimes Can we fix this Join bestselling psychology author Connor Whiteley reflecting on outstanding critical topics problems and more facing clinical psychology in this brilliant engaging book going far beyond the textbooks and lecture theatres If you want to expand your knowledge of clinical psychology in the real world You MUST read this absolutely unputdownable and brilliant book BUY NOW Clinical Psychology Reflections Volume 4 Includes Introduction Poverty Factors In Mental Health And Cost Of Living Crisis Why There Needs To Be More Support For Researchers Why You Need To Have An Experimental Attitude In Your Degree Why You Need An Experimental Attitude In Psychotherapy Why Start With Cognitive Behavioural Therapy Is Good Why You Know More Than You Think Why Each Psychology Subfield Is An Echo Chamber Why People Believe Mental Health Is Its Own Angle In Psychology Why Broadening Our Definition Of Therapy Might Be A Good Thing Meaning Of Fiction Hope And Some Weird Links To Clinical Psychology A Continuation Positivity In TV And More Why Do You Need To Make Sure You Enjoy Your Clinical Psychology Journey The Most Important Question In Research How Anger Drives Action Another Example Of The Power Of Language A Great One For Parents Why Psychometric And Personal Goals Are Critical In Psychotherapy The Value Of Informally Talking To Service Users Why Psychology Organisations At Pride Events Is Interesting The Power Of CBT Pie Charts      **A Critical Reflection on Automated Science** Marta Bertolaso, Fabio Sterpetti, 2020-02-05 This book provides a critical reflection on automated science and addresses the question whether the computational tools we developed in last decades are changing the way we humans do science More concretely Can machines replace scientists in crucial aspects of scientific practice The contributors

to this book re think and refine some of the main concepts by which science is understood drawing a fascinating picture of the developments we expect over the next decades of human machine co evolution The volume covers examples from various fields and areas such as molecular biology climate modeling clinical medicine and artificial intelligence The explosion of technological tools and drivers for scientific research calls for a renewed understanding of the human character of science

This book aims precisely to contribute to such a renewed understanding of science      **Evolutionary Biology:**

**Contemporary and Historical Reflections Upon Core Theory** Thomas E. Dickins, Benjamin J.A. Dickins, 2023-03-08 This book is reflecting upon core theories in evolutionary biology in a historical as well as contemporary context It exposes the main areas of interest for discussion but more importantly draws together hypotheses and future research directions The Modern Synthesis MS sometimes referred to as Standard Evolutionary Theory SET in evolutionary biology has been well documented and discussed but was also critically scrutinized over the last decade Researchers from diverse disciplinary backgrounds have claimed that there is a need for an extension to that theory and have called for an Extended Evolutionary Synthesis EES The book starts with an introductory chapter that summarizes the main points of the EES claim and indicates where those points receive treatment later in the book This introduction to the subjects can either serve as an initiation for readers new to the debate or as a guide for those looking to pursue particular lines of enquiry The following chapters are organized around historical perspectives theoretical and philosophical approaches and the use of specific biological models to inspect core ideas Both empirical and theoretical contributions have been included The majority of chapters are addressing various aspects of the EES position and reflecting upon the MS Some of the chapters take historical perspectives analyzing various details of the MS and EES claims Others offer theoretical and philosophical analyses of the debate or take contemporary findings in biology and discuss those findings and their possible theoretical interpretations All of the chapters draw upon actual biology to make their points This book is written by practicing biologists and behavioral biologists historians and philosophers many of them working in interdisciplinary fields It is a valuable resource for historians and philosophers of biology as well as for biologists Chapters 8 20 22 and 33 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)      **Internal Reflection Spectroscopy** Francis M.

Mirabella, 2020-08-11 Presents coverage of internal reflection spectroscopy IRS and its applications to polymer semiconductor biological electrochemical and membrane research It describes the theory and procedures and identifies the spectral regions from materials characterization to process monitoring      **Higher Education - Reflections From the Field - Volume 1** , 2023-11-02 COVID wrought havoc on the world's economic systems Higher education did not escape the ravages brought on by the pandemic as institutions of higher education around the world faced major upheavals in their educational delivery systems Some institutions were prepared for the required transition to online learning Most were not Whether prepared or not educators rose to the challenge The innovativeness of educators met the challenges as digital

learning replaced the face to face environment In fact some of the distance models proved so engaging that many students no longer desire a return to the face to face model As with all transitions some things were lost while others were gained This book examines practice in the field as institutions struggled to face the worst global pandemic in the last century The book is organized into four sections on The Perspectives of Higher Education COVID as a Catalyst for Change Embracing Online Learning as a Response to COVID and Post Covid The Way Forward It presents various perspectives from educators around the world to illustrate the struggles and triumphs of those facing new challenges and implementing new ideas to empower the educational process These discussions shed light on the impact of the pandemic and the future of higher education post COVID Higher education has been forever changed and higher education as it once was may never return While many questions arise the achievements in meeting and overcoming the pandemic illustrate the creativity and innovativeness of educators around the world who inspired future generations of learners to reach new heights of accomplishment even in the face of the pandemic

**Reflection** Becky Klauer, 2020-10-28 The threat of a terrorist attack Confusing dreams Pesky demons Multiple puzzles An alleged Halloween deadline What do all of these things have in common Veronica Pearl As Agent Pearl she is the Special Investigative Consultant for the Southwest Region specializing in fighting terrorism and counter terrorism by day As Veronica she is plagued by fighting demon counterparts in her dreams by night sometimes because they have to do with a case she is working sometimes because demons simply don't like her She is a busy lady Her newest case begins accidentally at first glance What appears to be a large outbreak of food poisoning at a local mall food court is just the beginning of the puzzle In addition to her favorite and only niece being too close for comfort to that event there is also considerable chatter about an upcoming terrorist attack If what she uncovered is accurate the planned attack on San Antonio her beloved home would be like nothing she has ever seen before using a bioweapon she never could have even imagined Marrying scientific advancements with real life needs is a huge benefit to society Of course everything can be twisted away from good towards evil but how could somebody plan something like this Why would they want to hurt innocent people in order to benefit themselves And just how wide does the terror web spread The heads of two biotech companies in San Antonio appear equally guilty and able to conspire about something like this Is the attack allegedly planned for Halloween night when so many children and adults will be out in public and susceptible to harm It will take an entire team to figure out this threat that has been years in the making and stop it before the world as she knows it changes irreversibly

**Science in Reflection** Edna Ullmann-Margalit, 2012-12-06 The Israel Colloquium for the History Philosophy and Sociology of Science presents before you its third volume of proceedings The philosophy section of the volume has three main foci the scientific explanation Hempel and Ben Menachem Elster and Dascal realism in science Cohen and Zemach and its implications for the problem of universals Armstrong and Bar Elli and the question of demarcation the dividing line between science and philosophy KrUger as well as the cognitive limits of science Stent There is no neat separation in this volume between essays

on the history of science and those on the sociology of science and perhaps properly so Thus Lenoir's contribution is a clear example of the way the two disciplines combine and interrelate Joseph Ben David's comment on this lecture was among the last things he wrote knowing full well that his days were numbered Reading his contribution imparts a strong sense of loss the loss of a great sociologist and a wise man Not only history however but also historiography is a subject for reflection in this volume Freudenthal and Kerszberg And finally a couple of articles convey the sense of fascination with science as a story Heilbron Hughes We have by now come to expect from the investigations reported in the Israel Colloquium series not surface unity of theme and method but rather an underlying common commitment and zest for the scientific enterprise at its best The third volume hopes to join the first two in footing this bill

**Image Analysis** Donat P. Hader, 2000-08-23 Automatic image analysis has become an important tool in many fields of biology medicine and other sciences Since the first edition of Image Analysis Methods and Applications the development of both software and hardware technology has undergone quantum leaps For example specific mathematical filters have been developed for quality enhancement of original images and for extraction of specific features of interest Also more complex programs have been developed for the analysis of object forms in distinguishing cancer cells from normal tissue cells Just as significant three dimensional analysis of proteins organelles or macroscopic objects is even more complex In addition recent space based experiments have optimized techniques for the extraction of movement parameters of numerous motile objects The second edition of Image Analysis Methods and Applications addresses all these new developments Moreover two new chapters have been added One focuses on images on the internet and the other discusses microscope image restoration These chapters add significantly to the existing body of information on Internet communication protocol and environment as well as to that on image file formats considerations The materials also include a list of internet Web sites that pertain to digital images and software along with those that relate to image processing With these considerations in mind Image Analysis Methods and Application Second Edition is of incalculable value to professionals academics and users of all aspects of image analysis in biology and other areas of science

**Unity in Diversity: Reflections on Ecology after the Legacy of Ramon Margalef**, 2007 **Sex, Cells, and Same-Sex Desire** David A Parker, 2014-02-25 This fascinating new book explores the myriad aspects of biological theories of sexual preference Sex Cells and Same Sex Desire describes reviews and questions recent biological research on sexual preference from the point of view of knowledgeable scientists and of scholars in the social sciences and humanities representing the emerging field of gay studies The issues involved have a vibrant history are wide ranging and remain the objects of much controversy This book demystifies biological research on sexual preference and makes it accessible to readers unfamiliar with biological and medical research Sex Cells and Same Sex Desire is divided into several sections each of which is introduced by an explanation of key concepts and terms found in that section The book begins with a discussion of the history of biological theories and sociocultural concepts of gender and sexuality The next 3 sections explore specialized

areas of biological science and related issues genetics and evaluation hormones and the endocrine system and brain physiology and structure A final section discusses social stigma science and medicine A glossary of terms used by the authors is included so readers may look up those that may be unfamiliar

**Kant on Proper Science** Hein van den Berg, 2013-10-08 This book provides a novel treatment of Immanuel Kant's views on proper natural science and biology The status of biology in Kant's system of science is often taken to be problematic By analyzing Kant's philosophy of biology in relation to his conception of proper science the present book determines Kant's views on the scientific status of biology Combining a broad ideengeschichtlich approach with a detailed historical reconstruction of philosophical and scientific texts the book establishes important interconnections between Kant's philosophy of science his views on biology and his reception of late 18th century biological theories It discusses Kant's views on science and biology as articulated in his published writings and in the *Opus postumum* The book shows that although biology is a non mathematical science and the relation between biology and other natural sciences is not specified Kant did allow for the possibility of providing scientific explanations in biology and assigned biology a specific domain of investigation

*Reflection Without Rules* D. Wade Hands, 2001-04-09 This book is a comprehensive and often controversial survey of economic methodology

**Using Reflection and Metacognition to Improve Student Learning** Naomi Silver, Matthew Kaplan, Danielle LaVaque-Manty, Deborah Meizlish, 2023-07-03 Research has identified the importance of helping students develop the ability to monitor their own comprehension and to make their thinking processes explicit and indeed demonstrates that metacognitive teaching strategies greatly improve student engagement with course material This book by presenting principles that teachers in higher education can put into practice in their own classrooms explains how to lay the ground for this engagement and help students become self regulated learners actively employing metacognitive and reflective strategies in their education Key elements include embedding metacognitive instruction in the content matter being explicit about the usefulness of metacognitive activities to provide the incentive for students to commit to the extra effort as well as following through consistently Recognizing that few teachers have a deep understanding of metacognition and how it functions and still fewer have developed methods for integrating it into their curriculum this book offers a hands on user friendly guide for implementing metacognitive and reflective pedagogy in a range of disciplines Offering seven practitioner examples from the sciences technology engineering and mathematics STEM fields the social sciences and the humanities along with sample syllabi course materials and student examples this volume offers a range of strategies for incorporating these pedagogical approaches in college classrooms as well as theoretical rationales for the strategies presented By providing successful models from courses in a broad spectrum of disciplines the editors and contributors reassure readers that they need not reinvent the wheel or fear the unknown but can instead adapt tested interventions that aid learning and have been shown to improve both instructor and student satisfaction and engagement

Resources in Education , 1995

**My Thoughts on Biological Evolution** Motoo Kimura, 2020-07-29 This

book written by Motoo Kimura 1924-94 is a classic in evolutionary biology In 1968 Kimura proposed the neutral theory of molecular evolution which became the theoretical basis of modern evolutionary studies After publishing his work in 1983 in the book *Neutral Theory of Molecular Evolution* Kimura wrote this book in 1988 for the general public It was originally written in Japanese and is translated here for the first time In the book Kimura first summarizes the development of evolutionary theory since Lamarck and Darwin He then shows how the search for mechanisms of evolution developed into population genetics and describes how the study of molecular evolution matured by taking in the fruits of molecular biology Kimura proceeds to carefully explain his neutral evolution theory at the molecular level Finally he presents his view of the world from an evolutionary perspective The book has long served as an in depth introduction to evolutionary biology for students and young researchers in Japan There has been remarkably rapid progress in the field of bioscience at the molecular level over the past 30 years Nevertheless the book remains an important contribution that laid the foundations for what followed in molecular evolutionary studies

**Advances in Metacognition and Reflection** Igor Bascandziev, Claudia M. Roebers, Stephanie M. Carlson, Loren Marulis, 2025-03-24 Metacognitive skills thinking about thinking are a form of abstract thought that signify a major advance in cognition in both phylogeny and ontogeny Metacognition is associated with a host of positive outcomes including academic achievement and mental health Although decades of research have led to discoveries about the nature and development of metacognition in school age children newer approaches suggest there are precursor skills in infancy and early childhood Investigators also are turning toward experimental and field based intervention studies to help foster metacognition in the service of learning and to reduce socioeconomic achievement gaps

**The Economics of Singularities of Science Elucidated with Buddhist Thoughts** S. Niggol Seo, 2024-10-24 This book analyses the unprecedented economic and social challenges to human civilization from the perspective of Buddhist philosophy It reviews singularities in a broad range of scientific experiments including the theory of relativity quantum physics artificial intelligence mRNA virology stem cell biology and neuroscience to evaluate catastrophic risks posed to the present global economic and environmental order Through placing these discussions within the context of Buddhist philosophy an alternative to traditional economic and science ideas is presented The power of technological progress and associated risks is highlighted as a way of looking into and creating a more sustainable future This book provides a fresh interpretation of fat tail economics that draws ideas from the basic sciences The book will be of much value to students and researchers who are keen to environmental economics planetwide catastrophes and Buddhist philosophy

*Thoughts About Thoughts* Dr. Munir A. Cheema, 2020-06-30 One life is far too short for one to start learning from a scratch In honing these stray thoughts I have leaned heavily on others Many of my ideas tallied with those of my associates some wise some scholarly They have made such instant impact that I can no longer discern the origin or legacy of the thoughts Our sentiments are alike like in hospitals whose walls have heard more cordial prayers than in temples synagogues churches and the mosques



Ours is a lineage where we share our callings I trail a dynasty of writers particularly medical that have similar passions Our thoughts and the themes are alike because the subject is common I bask in the reflected glory of my predecessors who stand on the shoulders of their precursors Our knowledge is concord

## Reviewing **Reflections On Biological Research**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Reflections On Biological Research**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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