

## MEETING REVIEW

## Human development, heredity and evolution

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## ABSTRACT

From March 27–29 2017, the RIKEN Center for Developmental Biology held a symposium entitled ‘Towards Understanding Human Development, Heredity, and Evolution’ in Kobe, Japan. Recent advances in technologies including stem cell culture, live imaging, single-cell approaches, next-generation sequencing and genome editing have led to an expansion in our knowledge of human development. Organized by Yoshiya Kasaguchi, Mitinori Saitou, Mototsugu Eiraku, Tomoya Kitajima, Fumio Matsuzaki, Takashi Tsuji and Edith Heard, the symposium covered a broad range of topics including human germline development, epigenetics, organogenesis and evolution. This Meeting Review provides a summary of this timely and exciting symposium, which has convinced us that we are moving into the era of science targeted on humans.

**KEY WORDS:** Human development, Single-cell sequencing, Epigenetics, Organoid, Evolution

## Introduction

Developmental biology research has a long history of studying model organisms such as the fruit fly *Drosophila melanogaster*, focusing mainly on early embryogenesis. One major revolution in the field came in the early 1990s, when knockout mouse technology led to a focus on embryogenesis and organ development in mammals. Now, recent advances in human embryonic stem cell (ESC) and induced pluripotent stem cell (iPSC) technology have enabled the generation of human organoids (miniature versions of human tissues and organs grown in culture) of a variety of tissues, which can at least partially mimic human diseases and potentially be used in drug discovery platforms. Genome editing is further accelerating these research activities. In addition, single-cell sequencing is becoming a powerful tool for developmental biology, revealing the states of individual cells during embryogenesis and hence allowing investigation of the dynamics of tissue and organ development in greater detail. This technology is now being applied to human embryos, as well organoids generated *in vitro*. Human embryos are obtained and analyzed routinely at some institutions to study human development, not only for RNA sequencing but also for live imaging. These technological advances made for a very timely symposium, although the scope of this meeting was in fact much broader than our expectations. Rapid progress in next-generation sequencing has enabled comparative studies between humans and other mammals that are revealing the evolutionary processes that led to modern humans. Thus, we are now in the era of human developmental biology. In this review of the recent RIKEN Center for Developmental Biology (CDB)

symposium ‘Towards Understanding Human Development, Heredity, and Evolution’ (Fig. 1), we summarize some of the prominent talks and take-home messages from the symposium, beginning with the investigation of early human embryogenesis and germline development, before considering talks focused on the epigenetic regulation of development, organogenesis and, finally, heredity and evolution of the human lineage.

## Germline development and early embryogenesis

Mitinori Saitou (Kyoto University, Japan) previously succeeded in inducing mouse ESCs (mESCs) toward primordial germ cell (PGC) fate, generating cells that could contribute to spermatogenesis and oogenesis and to fertile offspring (Hayashi et al., 2011, 2012; Nakaki et al., 2013). He also reported PGC-like cells from human iPSCs (hiPSCs) (Sasaki et al., 2015). In his presentation, he discussed single-cell sequencing of pre- and post-implantation embryos of cynomolgus monkey, setting up a reference of normal early embryogenesis in non-human primates. This revealed that monkey ESCs and hiPSCs are transcriptionally similar to post-implantation late stage epiblasts, whereas mESCs correspond to the pre-implantation epiblasts (Nakamura et al., 2016). He further showed that primate PGCs do not appear in the epiblast but rather in the amnion as SOX17<sup>+</sup> TFAP2C<sup>+</sup> BLIMP1<sup>+</sup> cells and then migrate toward the epiblast (Sasaki et al., 2016). The inductive roles of Wnt and BMP in PGC specification are conserved from mouse, but their source is different: Wnt is provided from cytotrophoblast and BMP4 from amnion. This illustrates important species-specific differences and highlights the limitations of the mouse as a model of human development. Reconciling this finding – that human PGCs (hPGCs) first appear in the amnion – with the fact that hPGCs can be induced from hiPSCs through an incipient mesoderm-like state will require further investigation. Azim Sarani (University of Cambridge, UK) also reported that the mechanisms of PGC specification between human and mice are not conserved. He showed that, unlike in mouse where SOX2, BLIMP1 (PRDM1) and PRDM14 are required for PGC specification, SOX17 and BLIMP1 could induce hPGCs from ESCs *in vitro*. Equal dosage of these two factors is important for hPGC specification; dominant expression of SOX17 over BLIMP1 produces aberrant cells with expression of some definitive endoderm genes. Furthermore, Sarani obtained human embryos to investigate the *in vivo* development of hPGCs. In these samples, human-specific ‘escapee’ loci that evade germline reprogramming could be identified, revealing potential for transgenerational epigenetic inheritance that may have phenotypic consequences (Tang et al., 2015).

Patrick Chinnery (University of Cambridge, UK) studies mitochondrial DNA (mtDNA) heteroplasmy within the germline. Heteroplasmic mtDNA mutations cause inherited metabolic diseases when the proportion of mutant mitochondria exceeds a critical threshold. Interestingly, the phenotype varies widely even within the same family depending on the level of mtDNA heteroplasmy. Such variation between individuals can be explained by the ‘bottleneck theory’, in which the number of

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# Review Of Human Development

**G Orfield**



## **Review Of Human Development:**

*Review of Human Development* Tiffany Field, 1982      **Monthly Labor Review**, 1996 Publishes in depth articles on labor subjects current labor statistics information about current labor contracts and book reviews      **Digital Review of Asia Pacific 2009-2010** Shahid Akhtar, 2009-06-03 The biennial Digital Review of Asia Pacific is a comprehensive guide to the state of practice and trends in information and communication technologies for development ICTD in the Asia Pacific region This fourth edition 2009 2010 features 30 economies and four sub regional groupings The chapters provide updated information on ICT infrastructure industries content and services key programs enabling policies and regulation education and capacity building open source and research and development initiatives as well as ICTD challenges in each of the economies covered The common framework that underpins these reports allows readers to undertake a comparative analysis and assess progress across Asia Pacific In addition regional overviews provide a synthesis of ICTD trends regulatory issues and lessons for managing innovation in the network economy The thematic chapters focus on issues in ICT in education a key area in ICTD The authors are drawn from government academe industry and civil society providing a broad perspective on the use of ICTs for human development      **The Sociological Review**, 1921      **Datt & Sundharam's Indian Economy 73rd Edition** Gaurav Datt & Biswajit Nag, This revised edition of Datt and Sundharam's Indian Economy presents an up to date review of trends and issues framing the development of the modern Indian economy This comprehensive update involved a complete rewrite of the original book as part of the endeavour to promote a critical understanding of the ever changing canvass of opportunities and challenges facing the Indian economy This edition represents a fresh attempt to study the evolving journey of the increasingly complex Indian economy from a contemporary vantage point while retaining a longer term historical perspective Divided into five parts the book begins with an overview of the Evolving Structure of the Indian Economy which introduces India as a developing economy and discusses its economic growth demographic trends human development infrastructure and the environment The second part delves into India's Planning System and Evolution of Economics Sectors As areas of national concern the topics of Poverty Inequality Employment and Social Security are taken up in the third part The fourth part on the Fiscal monetary system and India's Financial Sector discusses key aspects of India's fiscal monetary and financial sector policy including a detailed review of the Union Budget 2023 24 The final part focuses on Trade Technology and Globalisation discussing issues related to trade policy foreign direct investment India's interface with the World Trade Organisation participation in global value chains and the state of technology in the context of India's emergence on the global economic stage With the marshalling of large amounts of data in an array of tables graphs charts and boxes explaining key concepts and special topics the book is informative engaging visually appealing and facilitates better understanding of the evolving complexities of the Indian economy along with the potential and limits of economic policy in the country The revision has been developed according to the curriculum of the National Education Policy 2020 and

caters to the academic requirements of undergraduate Economics students The findings from contemporary literature research covered in the book will help the Post graduate students and researchers from economics commerce and finance streams It will also be a useful resource for the aspirants appearing for various competitive examinations Analyzing Multidimensional Well-Being Satya R. Chakravarty, 2017-11-20 An indispensable reference for all researchers interested in the measurement of social welfare Francois Bourguignon Emeritus Professor at Paris School of Economics Former Chief Economist of the World Bank a detailed insightful and pedagogical presentation of the theoretical grounds of multidimensional well being inequality and poverty measurement Any student researcher and practitioner interested in the multidimensional approach should begin their journey into such a fascinating theme with this wonderful book Francois Maniquet Professor Catholic University of Louvain Belgium A Review of the Multidimensional Approaches to the Measurement of Welfare Inequality and Poverty Analyzing Multidimensional Well Being A Quantitative Approach offers a comprehensive approach to the measurement of well being that includes characteristics such as income health literacy and housing The author presents a systematic comparison of the alternative approaches to the measurement of multidimensional welfare inequality poverty and vulnerability The text contains real life applications of some multidimensional aggregations most of which have been designed by international organizations such as the United Nations Development Program and the Organization for Economic Co operation and Development that help to judge the performance of a country in the various dimensions of well being The text offers an evaluation of how well a society is doing with respect to achievements of all the individuals in the dimensions considered and clearly investigates how achievements in the dimensions can be evaluated from different perspectives The author includes a detailed scrutiny of alternative techniques for setting weights to individual dimensional metrics and offers an extensive analysis into both the descriptive and welfare theoretical approaches to the concerned multi attribute measurement and related issues This important resource Contains a synthesis of multidimensional welfare inequality poverty and vulnerability analysis Examines aggregations of achievement levels in the concerned dimensions of well being from various standpoints Shows how to measure poverty using panel data instead of restricting attention to a single period and when we have imprecise information on dimensional achievements Argues that multidimensional analysis is intrinsically different from marginal distributions based analysis Written for students teachers researchers and scholars Analyzing Multidimensional Well Being A Quantitative Approach puts the focus on various approaches to the measurement of the many aspects of well being and quality of life Satya R Chakravarty is a Professor of Economics at the Indian Statistical Institute Kolkata India He is an Editor of Social Choice and Welfare and a member of the Editorial Board of Journal of Economic Inequality *Recent Reviews*, 1986 **Interdisciplinary Perspectives on Sustainable Development** Dimitrios A. Karras, Sai Kiran Oruganti, Sudeshna Ray, 2023-10-19 ISC 2022 is dedicated to the Niti Aayog policies to promote sustainability through exchange of ideas emerging out of the academia The ISC is an annual

conference that is held in virtual mode until COVID restrictions on travel exist The vision of the conference is to capacitate Academia with the necessary ideas that provide insights of the grassroots level development to various stakeholders of the Niti Aayog policies Towards this goal the conference creates a conjunction of various stakeholders of Niti Aayog policies that include academic institutions government bodies policy makers and industry The ISC organizers make concerted efforts to promote academic research that would technological scientific management business practices and insights into policy merits disruptions The framework of exchange of ideas is geared towards adoption of deep technologies fundamental sciences engineering energy research energy policies advances in medicine related case studies This framework enables the round table discussions between the academia industry and policy makers through its range of plenary and keynote speakers

*Geographical Review* Isaiah Bowman, G. M. Wrigley, 1916      **Publication Catalog of the U.S. Department of Health, Education, and Welfare** United States. Department of Health, Education, and Welfare, 1978      Women's Roles and Statuses the World Over Stephanie Hepburn, Rita J. Simon, 2006-04-13 Women's Roles and Statuses the World Over stands alone in the unique contribution it makes to the field of women's rights Based solely on statistics and empirical data as opposed to opinion authors Stephanie Hepburn and Rita Simon have crafted an important contribution to the study of women in society by comparing women's position in society within 26 nations throughout the world This distinctive work addresses the status of women in the areas of education work force marriage and divorce the Constitution abortion and contraceptives public office military service and health care The countries selected reflect a representative pool of the world's cultures religions traditions races laws and politics Hepburn and Simon present the weaknesses strengths and progress or digression of each of the selected nations painting a clear picture of how much more progress must occur in order to set men and women on equal footing Women's Roles and Statuses the World Over is intended to serve scholars and general audiences alike as a handbook providing empirical data and comprehensive references on the social issues problems and practices that affect women today      **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1988 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index      Federal Register , 2013-08      OECD Public Governance Reviews: Egypt Strengthening the Foundations for More Efficient and Effective Public Governance Reforms OECD, 2024-12-13 As Egypt undertakes profound reforms to modernise its public administration this OECD Public Governance Review provides an overview of the country's efforts to promote more responsive citizen centered and impactful policies as part of the ambitious objectives set forth in Egypt Vision 2030 and the Public Administration Reform Plan Benchmarked against OECD good practices and standards the Review highlights both achievements and persistent challenges in a complex and evolving socio political and economic global landscape It provides concrete policy advice and recommendations for action in key areas to solidify the foundations for successful public

governance reforms in Egypt Ultimately the Review underscores the vital role of whole of government planning co ordination strategic human resources management administrative simplification transparency and communication as well as gender and youth mainstreaming as essential elements for realising the full potential of Egypt s reform agenda **Federal Register**

**Index** ,2008 Congressional Record United States. Congress,1979 **Catalog** National Medical Audiovisual Center,1977

Theories of Early Childhood Education Lynn E. Cohen,Sandra Waite-Stupiansky,2017-03-03 Theories of Early Childhood Education provides a comprehensive introduction to the various theoretical perspectives influential in early childhood education from developmental psychology to critical studies Piaget to Freire Expert chapter authors examine assumptions underpinning the use of theory in the early years and concisely explore the implications of these questions for policy and practice Every chapter includes applications to practice that will assist students and professionals in seeing the relevance of the theoretical perspective for their teaching The Whole Person Mark H. Bickhard,2024-11-27 The Whole Person explores the realms of theory and philosophy concerning minds and persons This book presents models of the emergent realization of multiple mental processes and of the constitution of social realities and social persons Each chapter explores prevalent theoretical and philosophical assumptions that obstruct the acceptance of models depicting emergent realization offering analyses of these barriers and demonstrating ways to overcome them Rooted in the framework of process metaphysics this book models metaphysically genuine emergence paving the way for a comprehensive model of multifarious normative emergences These normative emergences include phenomena such as function dysfunction representational truth and falsity rational irrational ethical unethical and others that shape our mental and social landscapes The discussion extends to the macro evolutionary culmination of mental processes in a model of reflective consciousness The book then extends its exploration to the foundational role of mental processes in the emergence of social realities and persons with language acting as a core element in these emergences Addressing evolutionary aspects brain processes developmental processes moral normativities and self consistency considerations The Whole Person presents a holistic integration of decades of constructive work Endorsements This ambitious yet unpretentious carefully constructed and argued book is a must read for anyone with serious interest in the nature of persons and the psychology of personhood Mark Bickhard s The Whole Person is a sustained and convincing narrative about our individual and collective evolution and emergence as the unique beings that we are Of particular interest is his account of the emergence of persons as homo socius Here Professor Bickhard captures key but often overlooked historical sociocultural and socio developmental dynamics and processes that make us who we are a species constantly interacting with each other and the world in a never ending process of mutual co constitution By theorizing a process metaphysics replete with emergent normativity that does not clash with a naturalistic ontological psychology Bickhard takes a giant step toward seeing ourselves as we are and as we might become Jack Martin Professor Emeritus Simon Fraser UniversityA typical psychological theory offers narrow generalizations about data sets obtained by semi

proprietary empirical methods The basic empirical research on which such theories have depended is in crisis tremendous effort has gone into ill motivated studies applying statistics inappropriately to inadequate samples too often generating irreproducible results The kind of theory that psychology needs is broad and deep pays no respect to boundaries between specialties makes falsifiable predictions and answers to arguments in principle The Whole Person presents just such a theory psychologists whether their aim is to extend it and support it or to challenge it and refute it will benefit from studying it closely Robert L Campbell Professor Emeritus Psychology Clemson University

**Socio-Economic Implications of Global Educational Inequalities** Sart, Gamze,Tokal, Pinar,Myrvang, Nursel Aydıntuğ,2023-11-21 As societies strive for progress the need to ensure equal access to education for all irrespective of socioeconomic ethnic or gender backgrounds emerges as a pivotal factor In the thought provoking book Socio Economic Implications of Global Educational Inequalities the complex interplay between education and its profound impact on human capital economic growth and development is meticulously explored The book delves into the multifaceted dimensions of education as a critical determinant of income and gender disparities poverty levels and financial sector advancement Drawing on the expertise of professional researchers this comprehensive work presents a panoramic view of the socio economic implications of educational inequalities on a global scale By examining the profound link between education and various societal aspects the book opens avenues for insightful discussions and strategic policymaking In addition to catering to scholars and researchers this book addresses a broader audience including individuals managers and governmental employees who recognize education s pivotal role in shaping economic financial and social landscapes

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