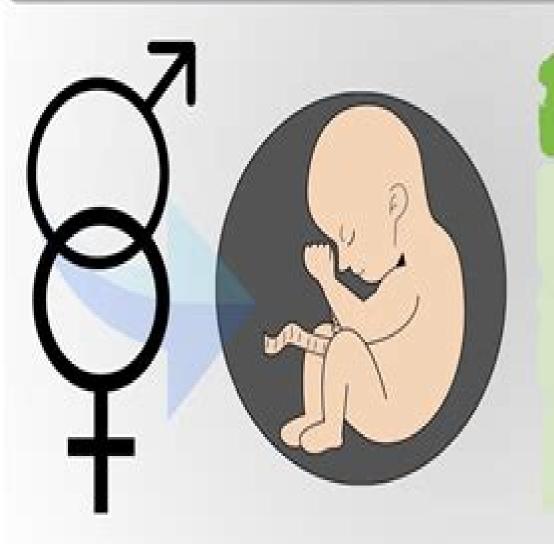
# Reproduction



What is Reproduction?

Reproduction is the process by which living organisms produce offspring or generate new individuals of the same species.

# **Hypothesis Practical Human Reproduction Term 1 2014**

**Sebastian Brünink** 

#### **Hypothesis Practical Human Reproduction Term 1 2014:**

Principles and Practice of Ovarian Tissue Cryopreservation and Transplantation Kutluk Oktay, 2022-05-20 Principles and Practice of Ovarian Tissue Cryopreservation and Transplantation provides methods and techniques of ovarian tissue harvesting and cryopreservation including instructional videos This book will benefit a wide audience guiding infertility specialists fellows residents reproductive surgeons reproductive endocrinologists pediatric surgeons embryologists infertility nurses and gynecologists Ovarian cryopreservation and transplantation is rapidly gaining acceptance as a successful and established fertility preservation strategy in cancer patients and beyond Unlike other fertility preservation strategies it can be performed in children as well as adults and can be helpful in restoring natural ovarian function and fertility hence this is a welcomed resource on the topic Provides links to instructional videos materials and an equipment list for ovarian tissue harvesting and cryopreservation along with protocols for ovarian tissue cryopreservation thawing and transplantation Presents instructional video coverage of ovarian tissue cryopreservation for use at fertility centers around the globe Fulfills a specific niche in the literature providing a comprehensive reference on ovarian tissue freezing and transplantation Includes a foreword written by a cancer survivor who successfully received this procedure **Advances in Obesity Prevention,** Treatment and Management: Lifecycle and Complex System Approaches Mikiko Watanabe, 2023-10-05 **Dynamics** of Joint-Action, Social Coordination and Multi-Agent Activity Michael J. Richardson, Richard C. Schmidt, Rick Dale, Rachel W. Kallen, Joanna Raczaszek-Leonardi, 2018-02-28 Policy and Practice Challenges for Equality in Education Neimann, Theresa, Felix, Jonathan J., Shliakhovchuk, Elena, Hindman, Lynne L., 2021-09-10 Well educated populations are important aspects of any contemporary society as education increases national and global development and the positive expansion of communities to participate actively in civil matters also increases Educational equality is based on the principles of administrative competence and fairness of access and distribution of resources opportunities and treatment which ensures success for every person Ensuring equal access to quality education requires addressing a wide range of persistent inequalities in society and includes a stronger focus on how different forms of inequalities intersect to produce unequal opportunities or outcomes that affect marginalized and vulnerable groups Policy and Practice Challenges for Equality in Education takes a multifaceted look at issues of equality and inequality in education as related to policy practice resource access and distribution As such this book explores the potential practices in education that serve to mitigate and transform unproductive practices which have left societies scarred by social and educational inequalities The chapters provide a critical analysis of the manifestations of inequalities in various educational contexts and discerns how broader social inequalities are informed by education related matters. This book is ideal for sociologists administrators instructors policymakers data scientists community leaders practitioners stakeholders researchers academicians and students interested in educational equality and the unique challenges being faced worldwide *Non-Ordinary Mental Expressions* Etzel

Cardeña, Enrico Facco, 2015-03-16 Nothing provided **Obesity** Shamim I. Ahmad, 2024-08-02 This heavily revised second edition comprehensively examines the causes and effects of obesity both on the human body as well as society as a whole The significance obesity plays in the development of a variety of lethal and non lethal diseases is discussed and the prevention and treatment of obesity are looked at in detail Treatment strategies such as bariatric surgical techniques and descriptions of how to apply the latest assessment technologies are provided for obese adult and pediatric patients A new section to this edition covers the impact of COVID 19 on obese patients and how it can create extra complications Obesity Clinical Surgical and Practical Guide describes how to best treat and manage individuals with obesity utilizing the latest methodologies Furthermore it brings together a large number of international specialists in their field making it a valuable resource for gastroenterologists surgeons researchers dieticians physicians and healthcare providers Principles and Practice of Assisted Reproductive Technology Kamini A Rao, Vyshnavi A Rao, Devi R, 2023-01-18 VOLUME 1 INFERTILITY SECTION 1 ANATOMY AND PHYSIOLOGY 1 Anatomy of the Reproductive System 2 Regulation and Physiology of Menstrual Cycle 3 Oogenesis and Folliculogenesis 4 Spermatogenesis 5 Fertilization and Embryogenesis 6 Implantation 7 Embryo Endometrial Crosstalk and Endometrial Receptivity SECTION 2 REPRODUCTIVE ENDOCRINOLOGY 8 Synthesis and Metabolism of Steroid Hormones 9 Puberty and Aberrations 10 Amenorrhea 11 Endocrine Disorders Affecting Reproduction 12 Hirsutism 13 Luteal Phase Defect 14 Anovulation 15 Declining Fertility SECTION 3 COMBINED TOPICS 16 Evaluation of Infertility 17 Immunology and Infertility 18 Cytogenetics and Subfertility 19 Obesity and Infertility 20 Unexplained Infertility 21 Fertility Preservation 22 Counseling in Infertility 23 Assisted Reproductive Technology in Patients with Chronic Medical Disorders SECTION 4 MALE INFERTILITY 24 Etiopathogenesis of Male Infertility 25 Clinical and Endocrinological Evaluation of Infertile Male 26 Sexual Dysfunction in Male Infertility 27 Ultrasound in Male Infertility 28 Medical Management of Male Infertility 29 Azoospermia Evaluation and Management 30 Varicocele and Infertility 31 Spinal Cord Injuries and Male Infertility 32 Algorithms for Genetic Evaluation of Infertile Males SECTION 5 FEMALE FACTOR INFERTILITY 33 Uterine Factors in Infertility 34 Tubal Factors in Infertility 35 Infections and Infertility 36 Tuberculosis and Infertility 37 Sonoendocrinology and Cycle Monitoring Assisted Reproduction Technology 38 Transvaginal Ultrasound and Doppler in Infertility 39 Polycystic Ovary Syndrome 40 Assessment of Ovarian Reserve 41 Endometriosis 42 Endoscopy in Infertility 43 Reconstructive Surgeries Enhancing Fertility SECTION 6 INTRAUTERINE INSEMINATION 44 Intrauterine Insemination 45 Optimizing Success in Intrauterine Insemination SECTION 7 OVARIAN STIMULATION 46 Drugs for Ovarian Stimulation 47 Ovulation Induction and Ovarian Stimulation Protocols 48 Role of Adjuvants in Ovarian Stimulation 49 Gonadotropinreleasing Hormone Analogs 50 Monitoring of Ovarian Stimulation 51 Ovulation Trigger 52 Individualized Controlled Ovarian Stimulation 53 In Vitro Fertilization Lite 54 Role of Luteinizing Hormone in Ovarian Stimulation 55 Anesthesia in Assisted Reproductive Techniques 56 Oocyte Retrieval 57 Embryo Transfer 58 Troubleshooting in Assisted Reproductive Technology

59 Luteal Phase Support SECTION 8 DILEMMA IN ART 60 Poor Responder 61 Recurrent Implantation Failure 62 Empty Follicle Syndrome 63 Role of Aneuploidy Screening in Preimplantation Embryos 64 Preimplantation Genetic Testing of Embryos 65 Epigenetics and Assisted Reproductive Technology SECTION 9 COMPLICATIONS IN ART 66 Ovarian Hyperstimulation Syndrome 67 Ectopic Pregnancy 68 Multipleorder Births SECTION 10 THIRD PARTY REPRODUCTION 69 Oocyte and Sperm Donation 70 Surrogacy in Assisted Reproductive Technology 71 Assisted Reproductive Technology Guidelines 72 Adoption 73 LGBTO and Fertility 74 Transgender Population and Fertility SECTION 11 OUTCOME FOLLOWING ASSISTED REPRODUCTIVE TECHNIQUE 75 Maternal and Fetal Outcomes Following Assisted Reproductive Technique 76 Early Pregnancy Scan 77 Recurrent Pregnancy Loss From Diagnostic Dilemmas to Clinical Decisions SECTION 12 RECENT ADVANCES 78 Bioengineered Human Endometrium In Vitro 79 Recent Trends in A **Handbook of Prenatal** and Perinatal Psychology Klaus Evertz, Ludwig Janus, Rupert Linder, 2020-10-27 The handbook synthesizes the comprehensive interdisciplinary research on the psychological and behavioral dimensions of life before during and immediately after birth It examines how experiences during the prenatal period are associated with basic physiological and psychological imprints that last a lifetime and explores the ways in which brain networks reflect these experiences Chapters offer findings on prenatal development fetal programming fetal stress and epigenetics In addition chapters discuss psychotherapy for infants before during and after birth as well as prevention to promote positive health and well being outcomes Topics featured in this handbook include Contemporary environmental stressors and adverse pregnancy outcomes The psychology of newborn intensive care Art therapy and its use in treating prenatal trauma. The failures and successes of Cathartic Regression Therapy Prenatal bonding and its positive effects on postnatal health and well being The role of family midwives and early prevention The cultural meaning of prenatal psychology The Handbook of Prenatal and Perinatal Psychology is an essential resource for researchers clinicians and related professionals as well as graduate students in a wide range of interrelated disciplines including developmental psychology pediatric and obstetrical medicine neuroscience infancy and early child development obstetrics and gynecology nursing social work and early childhood education Mandell. Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book John E. Bennett, Raphael Dolin, Martin J. Blaser, 2019-08-08 For four decades physicians and other healthcare providers have trusted Mandell Douglas and Bennett s Principles and Practice of Infectious Diseases to provide expert guidance on the diagnosis and treatment of these complex disorders The 9th Edition continues the tradition of excellence with newly expanded chapters increased global coverage and regular updates to keep you at the forefront of this vitally important field Meticulously updated by Drs John E Bennett Raphael Dolin and Martin I Blaser this comprehensive two volume masterwork puts the latest information on challenging infectious diseases at your fingertips Provides more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than any other infectious disease resource Features an increased focus on

antibiotic stewardship new antivirals for influenza cytomegalovirus hepatitis C hepatitis B and immunizations and new recommendations for vaccination against infection with pneumococci papillomaviruses hepatitis A and pertussis Covers newly recognized enteroviruses causing paralysis E A71 E D68 emerging viral infections such as Ebola Zika Marburg SARS and MERS and important updates on prevention and treatment of C difficile infection including new tests that diagnose or falsely over diagnose infectious diseases Offers fully revised content on bacterial pathogenesis antibiotic use and toxicity the human microbiome and its effects on health and disease immunological mechanisms and immunodeficiency and probiotics and alternative approaches to treatment of infectious diseases Discusses up to date topics such as use of the new PCR panels for diagnosis of meningitis diarrhea and pneumonia current management of infected orthopedic implant infections newly recognized infections transmitted by black legged ticks in the USA Borrelia miyamotoi and Powassan virus infectious complications of new drugs for cancer new drugs for resistant bacteria and mycobacteria new guidelines for diagnosis and therapy of HIV infections and new vaccines against herpes zoster influenza meningococci PPID continues its tradition of including leading experts from a truly global community including authors from Australia Canada and countries in Europe Asia and South America Includes regular updates online for the life of the edition Features more than 1 500 high guality full color photographs with hundreds new to this edition Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices Promoting Mental Health at Work: New Insights and Practical Implications Elisabeth Schramm, Claas Lahmann, Christine Allwang, Kai G. Kahl, Undine E. Understanding the Role of Time-Dimension in the Brain Information Processing Daya Shankar Lang, 2021-09-14 Gupta, Hugo Merchant, 2017-04-13 Optimized interaction of the brain with environment requires the four dimensional representation of space time in the neuronal circuits Information processing is an important part of this interaction which is critically dependent on time dimension Information processing has played an important role in the evolution of mammals and has reached a level of critical importance in the lives of primates particularly the humans The entanglement of time dimension with information processing in the brain is not clearly understood at present Time dimension in physical world the environment of an organism can be represented by the interval of a pendulum swing the cover page depicts temporal unit with the help of a swinging pendulum Temporal units in neural processes are represented by regular activities of pacemaker neurons tonic regular activities of proprioceptors and periodic fluctuations in the excitability of neurons underlying brain oscillations Moreover temporal units may be representationally associated with time bins containing bits of information see the Editorial which may be studied to understand the entanglement of time dimension with neural information processing The optimized interaction of the brain with environment requires the calibration of neural temporal units Neural temporal units are calibrated as a result of feedback processes occurring during the interaction of an organism with environment Understanding the role of time dimension in the brain information processing requires a multidisciplinary approach which

would include psychophysics single cell studies and brain recordings Although this Special Issue has helped us move forward on some fronts including theoretical understanding of calibration of time information in neural circuits and the role of brain oscillations in timing functions and integration of asynchronous sensory information further advancements are needed by developing correct computational tools to resolve the relationship between dynamic hierarchical neural oscillatory structures that form during the brain s interaction with environment Metacognitive Therapy: Science and Practice of a Paradigm Adrian Wells, Lora Capobianco, Gerald Matthews, Hans M. Nordahl, 2020-12-21 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiers in org about contact Best Practice Approaches to the Study of Cognitive Functioning and Physical Activity/Sports Antonio Hernández-Mendo, Sidonio Serpa, Jeanette M. López-Walle, Rafael E. Reigal, Oddrun Samdal, 2020-07-29 Nonlinear Analysis in Neuroscience and Behavioral Research Tobias A. Mattei, 2016-10-31 Although nonlinear dynamics have been mastered by physicists and mathematicians for a long time as most physical systems are inherently nonlinear in nature the recent successful application of nonlinear methods to modeling and predicting several evolutionary ecological physiological and biochemical processes has generated great interest and enthusiasm among researchers in computational neuroscience and cognitive psychology Additionally in the last years it has been demonstrated that nonlinear analysis can be successfully used to model not only basic cellular and molecular data but also complex cognitive processes and behavioral interactions The theoretical features of nonlinear systems such unstable periodic orbits period doubling bifurcations and phase space dynamics have already been successfully applied by several research groups to analyze the behavior of a variety of neuronal and cognitive processes Additionally the concept of strange attractors has lead to a new understanding of information processing which considers higher cognitive functions such as language attention memory and decision making as complex systems emerging from the dynamic interaction between parallel streams of information flowing between highly interconnected neuronal clusters organized in a widely distributed circuit and modulated by key central nodes Furthermore the paradigm of self organization derived from the nonlinear dynamics theory has offered an interesting account of the phenomenon of emergence of new complex cognitive structures from random and non deterministic patterns similarly to what has been previously observed in nonlinear studies of fluid dynamics Finally the challenges of coupling massive amount of data related to brain function generated from new research fields in experimental neuroscience such as magnetoencephalography optogenetics and single cell intra operative recordings of neuronal activity have generated the necessity of new research strategies which incorporate complex pattern

analysis as an important feature of their algorithms Up to now nonlinear dynamics has already been successfully employed to model both basic single and multiple neurons activity such as single cell firing patterns neural networks synchronization autonomic activity electroencephalographic measurements and noise modulation in the cerebellum as well as higher cognitive functions and complex psychiatric disorders Similarly previous experimental studies have suggested that several cognitive functions can be successfully modeled with basis on the transient activity of large scale brain networks in the presence of noise Such studies have demonstrated that it is possible to represent typical decision making paradigms of neuroeconomics by dynamic models governed by ordinary differential equations with a finite number of possibilities at the decision points and basic heuristic rules which incorporate variable degrees of uncertainty This e book has include frontline research in computational neuroscience and cognitive psychology involving applications of nonlinear analysis especially regarding the representation and modeling of complex neural and cognitive systems Several experts teams around the world have provided frontline theoretical and experimental contributions as well as reviews perspectives and commentaries in the fields of nonlinear modeling of cognitive systems chaotic dynamics in computational neuroscience fractal analysis of biological brain data nonlinear dynamics in neural networks research nonlinear and fuzzy logics in complex neural systems nonlinear analysis of psychiatric disorders and dynamic modeling of sensorimotor coordination Rather than a comprehensive compilation of the possible topics in neuroscience and cognitive research to which non linear may be used this e book intends to provide some illustrative examples of the broad range of Neuro-motor control and feed-forward models of locomotion in humans Marco Iosa, Nadia Dominici, Federica Tamburella, Leonardo Gizzi, 2015-07-29 Locomotion involves many different muscles and the need of controlling several degrees of freedom Despite the Central Nervous System can finely control the contraction of individual muscles emerging evidences indicate that strategies for the reduction of the complexity of movement and for compensating the sensorimotor delays may be adopted Experimental evidences in animal and lately human model led to the concept of a central pattern generator CPG which suggests that circuitry within the distal part of CNS i e spinal cord can generate the basic locomotor patterns even in the absence of sensory information Different studies pointed out the role of CPG in the control of locomotion as well as others investigated the neuroplasticity of CPG allowing for gait recovery after spinal cord lesion Literature was also focused on muscle synergies i e the combination of locomotor functional modules implemented in neuronal networks of the spinal cord generating specific motor output by imposing a specific timing structure and appropriate weightings to muscle activations Despite the great interest that this approach generated in the last years in the Scientific Community large areas of investigations remain available for further improvement e q the influence of afferent feedback and environmental constrains for both experimental and simulated models However also supraspinal structures are involved during locomotion and it has been shown that they are responsible for initiating and modifying the features of this basic rhythm for stabilising the upright walking and for coordinating

movements in a dynamic changing environment Furthermore specific damages into spinal and supraspinal structures result in specific alterations of human locomotion as evident in subjects with brain injuries such as stroke brain trauma or people with cerebral palsy in people with death of dopaminergic neurons in the substantia nigra due to Parkinson's disease or in subjects with cerebellar dysfunctions such as patients with ataxia The role of cerebellum during locomotion has been shown to be related to coordination and adaptation of movements Cerebellum is the structure of CNS where are conceivably located the internal models that are neural representations miming meaningful aspects of our body such as input output characteristics of sensorimotor system Internal model control has been shown to be at the basis of motor strategies for compensating delays or lacks in sensorimotor feedbacks and some aspects of locomotion need predictive internal control especially for improving gait dynamic stability for avoiding obstacles or when sensory feedback is altered or lacking Furthermore despite internal model concepts are widespread in neuroscience and neurocognitive science neurorehabilitation paid far too little attention to the potential role of internal model control on gait recovery Many important scientists have contributed to this Research Topic with original studies computational studies and review articles focused on neural circuits and internal models involved in the control of human locomotion aiming at understanding the role played in control of locomotion of different neural circuits located at brain cerebellum and spinal cord levels From Organizational Welfare to Business Success: Higher Performance in Healthy Organizational Environments Gabriele Giorgi, Mindy Shoss, Annamaria Di Fabio, 2017-10-25 This e book provides insight into the link between employee health and productivity performance with a focus on how individuals groups or organizations can intervene in this relationship to improve both well being and performance related outcomes Given the continuous changes that organizations and employees face such as the aging workforce and continued economic turbulence it is not surprising that studies are increasingly finding that employee health is related to job conditions. The papers in this e book emphasize that organizations make a critical difference when it comes to employees health and well being In turn healthy employees help their organizations to flourish Such findings are in line with the recent emphasis by both the International Labour Organization ILO and the United Nations UN on the importance of work for individual well being and the importance of individual well being for productive and sustainable economic growth see e g ILO 1985 World Health Organisation 2007 UN 2015 Overall the papers report findings from a cumulative sample of nearly 19 000 workers and perspectives from 68 authors They suggest that performance cannot be successfully achieved at the cost of health and well being and provide various perspectives and tools to guide future research Psychological perspectives on expertise Guillermo Campitelli, Michael H Connors, Merim Bilalić, David and practice Zachary Hambrick, 2015-05-19 Experts are persons who are very knowledgeable about or skillful in a particular area The aim of this Research Topic is to advance knowledge in the understanding of the phenomenon of expertise by putting together different lines of research that directly or indirectly study expertise Herbert Simon s expertise studies initiated two lines of

research One is interested in elucidating the cognitive processes underlying expertise and the other investigates how expertise develops These lines of research started with studies comparing experts and novices in chess and then they extended to numerous areas of expertise such as music medical diagnosis sports arts and sciences In the field of judgment and decision making researchers investigate the quality of judgments and decisions of experts in different professions e.g. clinical psychologists medical practitioners judges meteorologists stock brokers Those lines of research explicitly investigate the topic of expertise but there are other research areas that make a substantial contribution to understanding expertise Scholars in language acquisition and in face perception for example investigate cognitive processes and development of expertise in areas in which almost everyone becomes an expert Furthermore skill acquisition research informs in detail about short term cognitive changes that may be important to understand how expertise develops We are interested in original research that advances knowledge in the understanding of decision making cognitive processes and development of expertise in sports intellectual games arts scientific disciplines and professions as well as expertise in cognitive abilities such as perception memory attention language and imagery We are also interested in theoretical articles in any of these areas articles that describe computational or mathematical models of expertise and articles offering a framework that would guide expertise research Articles that offer integrative approaches of some of the areas described above are strongly encouraged The goal of this Research Topic is to produce a hallmark piece of work in the field of expertise which complements and does not overlap with the Neural implementations of expertise Research Topic in Frontiers in Human Neuroscience Metaphorical Brain Seana Coulson, Vicky T. Lai, 2016-03-09 Metaphor has been an issue of intense research and debate for decades see for example 1 Researchers in various disciplines including linguistics psychology computer science education and philosophy have developed a variety of theories and much progress has been made 2 For one metaphor is no longer considered a rhetorical flourish that is found mainly in literary texts Rather linguists have shown that metaphor is a pervasive phenomenon in everyday language a major force in the development of new word meanings and the source of at least some grammatical function words 3 Indeed one of the most influential theories of metaphor involves the suggestion that the commonality of metaphoric language results because cross domain mappings are a major determinant in the organization of semantic memory as cognitive and neural resources for dealing with concrete domains are recruited for the conceptualization of more abstract ones 4 Researchers in cognitive neuroscience have explored whether particular kinds of brain damage are associated with metaphor production and comprehension deficits and whether similar brain regions are recruited when healthy adults understand the literal and metaphorical meanings of the same words see 5 for a review Whereas early research on this topic focused on the issue of the role of hemispheric asymmetry in the comprehension and production of metaphors 6 in recent years cognitive neuroscientists have argued that metaphor is not a monolithic category and that metaphor processing varies as a function of numerous factors including the novelty or conventionality of a particular metaphoric expression its part of speech and the extent of contextual support for the metaphoric meaning see e g 7 8 9 Moreover recent developments in cognitive neuroscience point to a sensorimotor basis for many concrete concepts and raise the issue of whether these mechanisms are ever recruited to process more abstract domains 10 This Frontiers Research Topic brings together contributions from researchers in cognitive neuroscience whose work involves the study of metaphor in language and thought in order to promote the development of the neuroscientific investigation of metaphor Adopting an interdisciplinary perspective it synthesizes current findings on the cognitive neuroscience of metaphor provides a forum for voicing novel perspectives and promotes avenues for new research on the metaphorical brain 1 Arbib M A 1989 The metaphorical brain 2 Neural networks and beyond John Wiley Sons Inc 2 Gibbs Jr R W Ed 2008 The Cambridge handbook of metaphor and thought Cambridge University Press 3 Sweetser Eve E Grammaticalization and semantic bleaching Annual Meeting of the Berkeley Linguistics Society Vol 14 2011 4 Lakoff G Johnson M 1999 Philosophy in the flesh The embodied mind and its challenge to western thought Basic books 5 Coulson S 2008 Metaphor comprehension and the brain The Cambridge handbook of metaphor and thought 177 194 6 Winner E Gardner H 1977 The comprehension of metaphor in brain damaged patients Brain 100 4 717 729 7 Coulson S Van Petten C 2007 A special role for the right hemisphere in metaphor comprehension ERP evidence from hemifield presentation Brain Research 1146 128 145 8 Lai V T Curran T Menn L 2009 Comprehending conventional and novel metaphors An ERP study Brain Research 1284 145 155 9 Schmidt G L Kranjec A Cardillo E R Chatterjee A 2010 Beyond laterality a critical assessment of research on the neural basis of metaphor Journal of the International Neuropsychological Society 16 01 1 5 10 Desai R H Binder J R Conant L L Mano Q R Seidenberg M S 2011 The neural career of sensory motor metaphors Journal of Cognitive Neuroscience 23 9 2376 2386 Integrating Evolutionary Biology into Medical Education Jay Schulkin, Michael Power, 2019-12-19 Clinicians and scientists are increasingly recognising the importance of an evolutionary perspective in studying the aetiology prevention and treatment of human disease the growing prominence of genetics in medicine is further adding to the interest in evolutionary medicine In spite of this too few medical students or residents study evolution This book builds a compelling case for integrating evolutionary biology into undergraduate and postgraduate medical education as well as its intrinsic value to medicine Chapter by chapter the authors experts in anthropology biology ecology physiology public health and various disciplines of medicine present the rationale for clinically relevant evolutionary thinking They achieve this within the broader context of medicine but through the focused lens of maternal and child health with an emphasis on female reproduction and the early life biochemical immunological and microbial responses influenced by evolution The tightly woven and accessible narrative illustrates how a medical education that considers evolved traits can deepen our understanding of the complexities of the human body variability in health susceptibility to disease and ultimately help guide treatment prevention and public health policy However integrating evolutionary biology into medical education continues to face several roadblocks The medical

curriculum is already replete with complex subjects and a long period of training The addition of an evolutionary perspective to this curriculum would certainly seem daunting and many medical educators express concern over potential controversy if evolution is introduced into the curriculum of their schools Medical education urgently needs strategies and teaching aids to lower the barriers to incorporating evolution into medical training In summary this call to arms makes a strong case for incorporating evolutionary thinking early in medical training to help guide the types of critical questions physicians ask or should be asking It will be of relevance and use to evolutionary biologists physicians medical students and biomedical Duetting and Turn-Taking Patterns of Singing Mammals: From Genes to Vocal Plasticity, and Beyond research scientists Patrice Adret, Dena Jane Clink, Charles T. Snowdon, Sofya Dolotovskaya, 2023-10-23 Mammalian vocal duets and turn taking exchanges long coordinated acoustic signals exchanged between two individuals are primarily found in family living pair bonded mammals with a socially monogamous lifestyle some rodents some lemurs tarsiers titi monkeys a Mentawai langur gibbons and siamangs Duetting and turn taking patterns combine visual chemical tactile and auditory cues to produce some of the most exuberant displays in the realm of animal communication How and why such phenotypes evolved independently across main lineages are fundamental questions at the core of the nature nurture debate Duetting styles ranging from antiphonal non overlapping to simultaneous overlapping emissions have now been documented in various taxa some of which are quite reminiscent of turn taking rules in human conversation Nonetheless much remains to be learned about this complex motor skill and at all four levels of analysis namely 1 developmental processes 2 causal mechanisms 3 functional properties and 4 evolutionary history Given the strong link between this form of coordinated singing and pair bonding gaining a deeper understanding of this kind of cooperative behavior will likely shed more light on the deep evolutionary roots of human culture language and music

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