

# **Physical Sciences**

***November***

**EXAM PAPERS**

# Physical Science Exemplar 2014 November

**Hongru Du**



## **Physical Science Exemplar 2014 November:**

Paradigm Changes Are Required in HIV Vaccine Research Marc H. V. Van Regenmortel, 2015-12-08 In his 1962 book *The Structure of Scientific Revolutions* Thomas Kuhn famously argued that researchers in every field of scientific enquiry always operate under a set of presuppositions known as paradigms that are rarely explicitly stated In the field of HIV vaccine research several prevailing paradigms led scientists for many years to pursue unfruitful lines of investigations that impeded significant progress The uncritical acceptance of reigning paradigms makes scientists reluctant to abandon their mistaken assumptions even when they obtain results that are not consistent with the paradigms The following five paradigms which disregard the degeneracy of the immune system were particularly harmful

- 1 There is a primary and intrinsic epitope specific for each B cell receptor and for the corresponding monoclonal antibody In reality there is no single intrinsic or real epitope for any antibody but only a diverse group of potential ligands
- 2 Reactions with monoclonal antibodies are more specific than the combined reactivity of polyclonal antibodies In reality a polyclonal antiserum has greater specificity for a multiepitopic protein because different antibodies in the antiserum recognize separate epitopes on the same protein giving rise to an additive specificity effect By focusing vaccine design on single epitope Mab pairs the beneficial neutralizing synergy that occurs with polyclonal antibody responses is overlooked
- 3 The HIV epitope identified by solving the crystallographic structure of a broadly neutralizing Mab HIV Env complex should be able when used as immunogen to elicit antibodies endowed with the same neutralizing capacity as the Mab Since every anti HIV bnMab is polyspecific the single epitope identified in the complex is not necessarily the one that elicited the bnMab Since hypermutated Mabs used in crystallographic studies differ from their germline like receptor version present before somatic hypermutation the identified epitope will not be an effective vaccine immunogen
- 4 Effective vaccine immunogenicity can be predicted from the antigenic binding capacity of viral epitopes Most fragments of a viral antigen can induce antibodies that react with the immunogen but this is irrelevant for vaccination since these antibodies rarely recognize the cognate intact antigen and even more rarely neutralize the infectivity of the viral pathogen that harbors the antigen
- 5 The rational design of vaccine immunogens using reverse vaccinology is superior to the trial and error screening of vaccine candidates able to induce protective immunity One epitope can be designed to increase its structural complementarity to one particular bnMab but such antigen design is only masquerading as immunogen design because it is assumed that antigenic reactivity necessarily entails the immunogenic capacity to elicit neutralizing antibodies When HIV Env epitopes engineered to react with a bnMab are used to select from human donors rare memory B cells secreting bnAbs this represents antigen design and not immunogen design The aim of this Research Topic is to replace previous misleading paradigms by novel ones that better fit our current understanding of immunological specificity and will help HIV vaccine development

**Pragmatic Randomized Clinical Trials** Cynthia J. Girman, Mary E. Ritchey, 2021-04-08 Pragmatic Randomized Clinical Trials Using Primary Data Collection and Electronic

Health Records addresses the practical aspects and challenges of the design implementation and dissemination of pragmatic randomized trials also sometimes referred to as practical or hybrid randomized trials While less restrictive and more generalizable than traditional randomized controlled trials such trials have specific challenges which are addressed in this book The book contains chapters encompassing common designs along with advantages and limitations of such designs analytic aspects in planning trials and estimating sample size and how to use patient partners to help design and operationalize pragmatic randomized trials Pragmatic trials conducted using primary data collection and trials embedded in electronic health records including electronic medical records and administrative insurance claims are addressed This comprehensive resource is valuable not only for pharmacoepidemiologists biostatisticians and clinical researchers but also across the biomedical field for those who are interested in applying pragmatic randomized clinical trials in their research Addresses typical designs and challenges of pragmatic randomized clinical trials pRCTs Encompasses analytic aspects of such trials Discusses real cases on operational challenges in launching and conducting pRCTs in electronic health records

**Investing in Health and Wellbeing** Christopher Dye, 2024-09-17 The proverbial benefits of prevention over cure are self evident and yet we are reluctant to invest in protecting and improving our health Resolution of this age old dilemma begins with a timeless truth the benefits of good health come at a cost prevention is not better than cure at any price Protecting health should be appealing when a high risk high value hazard can be averted rapidly with certainty and at relatively low cost Similar reasoning applies when the goal is to make health gains not merely to avoid health losses Health choices are rational based on values that are personal Investing in Health and Wellbeing When Prevention Is Better than Cure Second Edition provides a framework to promote and protect health as an asset illustrating the principles with practical examples Application of these ideas helps to explain why prevention is a low priority for health services why the world was not ready for the COVID 19 pandemic why deadly infections like tuberculosis are neglected why cigarette smoking is still commonplace why billions still do not have access to safe sanitation and why the response to climate change has been so slow Much more money and effort are invested in health promotion and disease prevention today than is commonly thought but the enormous avoidable burden of illness is reason to look for ways of investing still more Previously published as The Great Health Dilemma ISBN 9780198853824 in 2021 this second updated edition makes prevention part of a broader vision for better health This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations

**The Uncanny Valley Hypothesis and Beyond** Marcus Cheetham, 2018-05-02 A field of theory and research is evolving around the question highlighted in the Uncanny Valley Hypothesis How does high realism in anthropomorphic design influence human experience and behaviour The Uncanny Valley Hypothesis posits that a very humanlike character or object e g robot prosthetic limb doll can evoke a negative affective i e uncanny state Recent advances in robotic and computer

graphic technologies in simulating aspects of human appearance behaviour and interaction have been accompanied therefore by theorising and research on the meaning and relevance of the Uncanny Valley Hypothesis for anthropomorphic design Current understanding of the uncanny idea is still fragmentary and further original research is needed However the emerging picture indicates that the relationship between humanlike realism and subjective experience and behaviour may not be as straightforward as the Uncanny Valley Hypothesis suggests This Research Topic brings together researchers from traditionally separate domains including robotics computer graphics cognitive science psychology and neuroscience to provide a snapshot of current work in this field A diversity of issues and questions are addressed in contributions that include original research review theory and opinion papers

### **High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations**

National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-06-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections

*Sport Development in the United States* Peter Smolianov, Dwight Zakus, Joseph Gallo, 2014-09-15 The development of both elite high performance sport and mass participation grassroots level sport are central concerns for governments and sports governing bodies This important new study is the first to closely examine the challenges and opportunities for sports development in the United States a global sporting giant with a unique market driven sporting landscape Presenting an innovative model of integrated sports development the book explores the inter relationship between elite and mass sport across history drawing on comparative international examples from Australia to the former USSR and Eastern bloc countries At the heart of the book is an in depth empirical study of three traditional and emerging sports in the US tennis soccer and rugby that offer important lessons on the development of elite sport methods for increasing participation and the establishment of new sports in new markets No other book has attempted to model sports development in the United States in such depth before Therefore this should be essential reading for all students researchers administrators or policy makers with an interest in

sports development sports management sports policy or comparative international sport studies      **International Conference on Applied Technologies** Miguel Botto-Tobar, Marcelo Zambrano Vizuete, Sergio Montes León, Pablo Torres-Carrión, Benjamin Durakovic, 2024-05-29 The three volume proceedings set CCIS 2049 2050 and 2051 constitutes the refereed proceedings of the 5th International Conference on Applied Technologies on International Conference on Applied Technologies ICAT 2023 held in Samborondon Ecuador November 22 24 2023 The 66 papers included in these proceedings were carefully reviewed and selected from 250 submissions They are organized in sections by topics as follows Intelligent Systems Communications e Commerce e Government e Learning Electronics Machine Vision Security Technology Trends and Z AT for Engineering Applications      *Annual Report India*. Department of School Education & Literacy, 2014      *Cretaceous Period: Biotic Diversity and Biogeography* Ashu Khosla, Spencer G. Lucas, 2016-01-01      Practical Sports Coaching Christine Nash, 2014-11-24 Practical Sports Coaching is a thorough and engaging guide for all sports coaching students and practitioners Drawing on real life case studies and examples the book is designed to develop practical coaching skills and provides readers with the methods and tools they need to become an expert coach Structured around all facets of the coaching process the text comprehensively covers topics such as preparation for coaching mentoring the philosophy of coaching direct intervention coaching methods the use of modern technology The book s practical approach allows the reader to consider common challenges faced by coaches suggesting solutions to performance concerns and preparing students for the realities of professional sports coaching A companion website containing presentation slides and useful weblinks makes the book a complete resource for students and lecturers alike Practical Sports Coaching helps to bridge the gap between theory and practical coaching skills and is an essential text for coaching students looking to deepen their understanding of sports coaching and experienced coaches developing their own practical skills      Failure and Nerve in the Academic Study of Religion William E. Arnal, Willi Braun, Russell T. McCutcheon, 2014-09-11 Failure and Nerve in the Academic Study of Religion presents a provocative critique of the unwillingness of modern scholars to publically distinguish research into comparative religion from confessional studies written within denominationally affiliated institutions The book offers the 19th Century founders of the study of religion as a bracing corrective to contemporary timidity The issue was analysed and documented by Wiebe a quarter of a century ago Here marking Wiebe s work a wide range of contributors reassess the methodology and ambition of contemporary religious research The book argues that conceptualizing religion as part of the world of human action and experience is the first requirement of the study of religion      Dynamics in Logistics Michael Freitag, Herbert Kotzab, Jürgen Pannek, 2018-02-16 These proceedings contain research presented at the 6th International Conference on Dynamics in Logistics held in February 2018 The integration of dynamics within the modeling planning and control of logistic processes and networks has shown to contribute massively to the improvement of the latter Moreover diversification of markets and demand has increased both the complexity and the dynamic changes of problems

within the area of logistics To cope with these challenges it must become possible to identify describe and analyze such process changes Moreover logistic processes and networks must be revised to be rapidly and flexibly adaptable to continuously changing conditions This book presents new ideas to solve such problems offering technological algorithmic and conceptual improvements It primarily addresses researchers and practitioners in the field of industrial engineering and logistics *Alexander's Care of the Patient in Surgery - E-Book* Jane C. Rothrock,2018-01-16 NEW Robotic Assisted Surgery boxes highlight a rapidly expanding surgical modality NEW Enhanced Recovery After Surgery boxes promote review of protocols for early recovery for patients undergoing major surgery NEW Patient Engagement Exemplar boxes optimize surgical outcomes by addressing AORN guidelines on the issues of patient care and involvement of the patient s family NEW standards and AORN toolkits cover topics ranging from enhanced post surgical recovery to prevention of pressure ulcers

Service Research and Innovation Amin Beheshti,Mustafa Hashmi,Hai Dong,Wei Emma Zhang,2018-03-02 This book constitutes revised selected papers from the Australasian Symposium on Service Research and Innovation ASSRI held in Sydney Australia The 11 full papers presented from ASSRI 2017 which took place during October 19 20 2017 were carefully reviewed and selected from 26 submissions The volume also contains 3 papers from ASSRI 2015 which took place during November 2 3 2015 and one invited paper on the software development processes The papers were organized in topical sections named invited talk modelling design quality social and application High-Performance Training for Sports David Joyce,Daniel Lewindon,2021-09-09 High Performance Training for Sports changed the landscape of athletic conditioning and sports performance when first published in 2014 Now the second edition builds on that groundbreaking work with the latest and most effective philosophies protocols and programs for developing today s athletes High Performance Training for Sports Second Edition features contributions from global leaders in athletic performance training coaching and rehabilitation This all star team shares the cutting edge knowledge and techniques they ve used with Olympians elite athletes and teams from professional sport leagues around the world In addition to fostering athletes speed agility jumping and landing capabilities and anaerobic and aerobic conditioning you ll find six new chapters on programming for the in season and off season learning and cueing and having a positive impact on a training environment Combining the latest science and research with proven training protocols High Performance Training for Sports will help you accomplish three critical goals for your athletes Establish and develop resilience Cultivate athletic capabilities Enhance and sustain performance Whether you are seeking to maximize the readiness of high performance athletes for a season or are assisting athletes who are returning to play after injury this definitive guide provides the best advice and practices High Performance Training for Sports is an essential resource for those who wish to excel as a strength and conditioning coach trainer rehabilitator or athlete Earn continuing education credits units A continuing education exam that uses this book is also available It may be purchased separately or as part of a package that includes both the book and exam *British Books* ,1916 **The Publishers' Circular and**

**Booksellers' Record** ,1916      Concussions in Athletics Semyon M. Slobounov, Wayne J. Sebastianelli, 2014-02-20

Concussions in Athletics From Brain to Behavior is a timely and major contribution to the literature that comprehensively addresses the neuromechanisms predispositions and latest developments in the evaluation and management of concussive injuries Also known as mild traumatic brain injury concussion in athletics is a growing public health concern with increased attention focusing on treatment and management of this puzzling epidemic Despite the increasing occurrence and prevalence of concussions in athletics there is no universally accepted definition or gold standard for its assessment Concussion in Athletics From Brain to Behavior provides a range of major findings that may shed important light on current controversy within the field The book is organized in five parts Evaluation of Concussion and Current Development Biomechanical Mechanisms of Concussion and Helmets Neural Substrates Biomarkers and Brain Imaging of Concussion Research Pediatric Sport related Concussions and Clinical Management and Rehabilitation of Concussions An invaluable contribution to the literature Concussions in Athletics From Brain to Behavior is a state of the art reference that will be of significant interest to a wide range of clinicians researchers administrators and policy makers      **Co-designing and Evaluating Oral Health Promotion Interventions for Vulnerable Groups**

Vanessa Muirhead, Maha El Tantawi, Andrea Rodriguez, 2025-04-01 A new approach to research is emerging that involves the public service users and health researchers in generating knowledge developing interventions and evaluating health promotion programs Co design describes active collaboration with stakeholders to create solutions to recognized problems Co design is underpinned by a Participatory Action Research PAR research paradigm that emphasizes power sharing which is particularly relevant to research on traditionally socially excluded groups This series adopts an empowerment definition of vulnerability to showcase co design in practice how researchers have developed and evaluated oral health interventions that have worked with instead of on people who are perceived as vulnerable Using an Inclusion Oral Health framework we can highlight how social exclusion is produced and experienced and its impact on oral health outcomes and social justice      *Talent Identification and Development in Sports Performance* Nuno Leite, Alberto Lorenzo Calvo, Julio Calleja-Gonzalez, Bruno Gonçalves, Sean Cumming, 2022-01-13

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