



basic education

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GRADE 12

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EXEMPLAR 2014

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straightforward presentation of the key components of research and the skills they need to read and evaluate it The book covers a range of research that students are most likely to encounter from experimental to field research and archival to evaluation research The Second Edition features updated examples of research across disciplines new and updated content on qualitative research and conceptual statistics and a streamlined organization that better aligns with the order of information in a research article *Handbook of Research on Soft Computing and Nature-Inspired Algorithms* Shandilya, Shishir K.,Shandilya, Smita,Deep, Kusum,Nagar, Atulya K.,2017-03-10 Soft computing and nature inspired computing both play a significant role in developing a better understanding to machine learning When studied together they can offer new perspectives on the learning process of machines The Handbook of Research on Soft Computing and Nature Inspired Algorithms is an essential source for the latest scholarly research on applications of nature inspired computing and soft computational systems Featuring comprehensive coverage on a range of topics and perspectives such as swarm intelligence speech recognition and electromagnetic problem solving this publication is ideally designed for students researchers scholars professionals and practitioners seeking current research on the advanced workings of intelligence in computing systems

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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

Studies in Latin Literature and Roman History Carl Deroux,2010 **The Journal of Physical Chemistry** ,1900 **Blake Studies** ,1970

Qualitative Methods in Sports Studies David L. Andrews,Daniel S. Mason,Michael L. Silk,2005-09 This book makes a timely contribution to a broader methodological project as the first systematic examination and explication of qualitative research methods within sports studies Qualitative Methods in Sports Studies assesses a variety of approaches ranging from social historical media text and personal narrative to ethnographic and interview based qualitative research methodologies

Drawing on the diversity of sport studies literature contributors outline the major issues and strategies associated with each method This practical research guide is an essential reference tool for students and scholars of sport and leisure studies

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effectively blurs the boundary between nature and machines with bio inspired designs biology is a metaphor and robotics is the tool to make it happen says asada who is a co author on the paper

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web he is currently a ford professor of mechanical engineering and the director of the d arbeloff laboratory for information systems and technology department of mechanical engineering massachusetts institute of technology mit cambridge ma usa

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