

## USING ICT TOOLS AND TECHNOLOGICAL APPLICATIONS IN THIS ERA OF THE COVID-19 PANDEMIC TO FACILITATE LEARNING

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### Abstract

*The globe is shaken by the abrupt emergence of the deadly Coronavirus Disease 2019 (COVID-19) pandemic. The global education system has been put to the test by this circumstance, which compelled educators to quickly adopt Information & Communication Technology (ICT) tools and technologies to support instruction. Although, great attempts are made by scholars to study the implications of Coronavirus Disease 2019 on the higher education curricular, there is dearth of previous studies regarding the impact of Information & Communication Technology tools and technological applications to foster learning amid Coronavirus Disease 2019 outbreak. This exploratory study therefore uses a meta-synthesis approach and visited relevant literatures as lens to primarily examine the need to use Information & Communication Technology tools and technology applications to enhance learning in the Coronavirus Disease 2019 age. The research also shed some insight on the difficulties involved with employing Information & Communication Technology tools and technical applications to aid learning in times of pandemic and catastrophes, and it offers potential answers to educational institutions on how to handle these complications. The study's findings suggest that Information & Communication Technology tools and technologies are the magic bullet for optimizing learning in times of disaster like the Coronavirus Disease 2019 pandemic. The study also shows that by overcoming some technical and financial obstacles like high cost of technology devices, electricity problems, lack of expertise, etc., the lessons learnt from the abrupt and compulsory adaption of Information & Communication Technology tools and technologies to lessen the negative effects of the disaster on learning amid Coronavirus Disease 2019 global emergency will help create new opportunities for the use of blended learning approaches to meet the needs of the Coronavirus Disease 2019 disruption and future learning deliveries.*

*Keywords: Engineering; failure; Small, medium and micro-enterprises; stagnation; strategy; SWOT analysis.*

### 1. Introduction

Before now, traditional teaching methods have been widely employed in most educational institutions at all levels, particularly in less developed countries (UNICEF,

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\* Corresponding author

# Technological Applications Of Immunochemicals

**WJ Hussar**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

## **Technological Applications Of Immunochemicals:**

Technological Applications of Immunochemicals BIOTOL (Project),1994 Primarily concerned with the practical issues involved in the production of antibodies and their derivatives Demonstrates how proteins especially enzymes and immunoglobins can be isolated characterised and produced on a large scale Shows how the major products of the immune system antibodies and cytokines may be produced and used as products of commerce Provides the knowledge needed to properly evaluate the process of immunochemical production purification formulation and marketing The need for a cost effective training scheme for new and existing staff at all levels has been met by the University of Greenwich formerly Thames Polytechnic and the Open University of the Netherlands As part of the European Community Education and Technology Training initiative COMETT and in conjunction with a number of other leading UK and European universities they are developing BIOTOL a training scheme in biotechnology using open learning materials which will provide tailor made courses flexible in content pace and place *Immunochemical Technology for Environmental Applications* Diana S. Aga,Earl Michael Thurman,1997 Presents the principles and practice of environmental immunoassays for novices in immunochemical techniques Describes the development and optimization of immunoassays for pesticides metals explosives chemical warfare agents and industrial contaminants Includes applications of immunoassays to the analysis of soil surface water and ground water and illustrates the reliability of these techniques Highlights novel formats of immunoassays such as immunosensors immunoaffinity techniques multi residue assays immunofluorescent detection systems and flow injection immunoassays

*Biotechnological Innovations in Chemical Synthesis* University of Greenwich,1997 A self study textbook for technicians seeking further education graduates extending their knowledge base experienced workers facing changes in jobs managers unfamiliar with the new technology and people returning after a career break Explores some ways biotechnology can provide new routes for producing traditional organic chemical products and enable new products to replace those with environmental or other drawbacks The aspects discussed include a biocatalyst in organic synthesis the efficiency of growth and product formation the production and diversification of antibiotics and the industrial production of amino acids by fermentation and chemo enzymatic methods *Environmental Immunochemical Analysis Detection of Pesticides and Other Chemicals* Shirley J. Gee,Bruce D. Hammock,Jeanette M. Van Emon,2008-10-19 This book is a tutorial designed to instruct the reader in use and application of immunochemical methods of analysis for environmental contaminants A brief introduction describes basic principles and the advantages and disadvantages of the technology and gives a listing of references which supply more detail Preparation of the laboratory for use of this technology and the general scientific considerations prior to using the technology are discussed Detailed step wise procedures are given for analysis of selected analytes triazine herbicides carbaryl paraquat and p nitrophenols etc In addition to the specific immunoassay methods a series of support techniques necessary to perform immunochemical methods are described This book provides specific instruction for certain analytes but also serves to

familiarize the novice reader with many generic concepts needed to successfully utilize immunochemistry technology including applications sampling sample preparation extraction cleanup quality assurance methods development and optimization data handling and troubleshooting It is not necessary for the reader to actually perform the immunoassays given in this user's guide to obtain familiarity with these concepts The guide is written so that the information presented can be applied to other immunoassays not given here Thus the strength of the guide is its universal applicability to immunoassay methods

Biotechnological Innovations in Food Processing BIOTOL, B C Currell, R C E Dam-Mieras, 2014-06-28 A thorough examination of the ways in which recent biotechnological developments have led to improvements in food processing Deals with biotechnology based processes currently in use by or available to the food industry Building on a series of case studies selected to illustrate the diversity of applications it clearly shows that biotechnology can and will benefit the food industry The need for a cost effective training scheme for new and existing staff at all levels has been met by the University of Greenwich formerly Thames Polytechnic and the Open University of the Netherlands As part of the European Community Education and Technology Training initiative COMETT and in conjunction with a number of other leading UK and European universities they have developed BIOTOL a training scheme in biotechnology using open learning materials which will provide tailor made courses flexible in content pace and place

Biotechnological Innovations in Animal Productivity BIOTOL, B C Currell, R C E Dam-Mieras, 2013-10-22 Biotechnological Innovations in Animal Productivity examines the application of biotechnology to animal production The book focuses on the use of contemporary biotechnology procedures on the different facets of animal production such as the reproductive capabilities of animals their growth rates and the ability of the farmer and veterinary services to prevent and cure infection The text contains chapters that discuss topics on the manipulation of reproductive processes endocrine regulation of the oestrous cycle in vitro embryo production and manipulation vaccines and the production of transgenic livestock animals Biotechnologists biologists and livestock producers will find the book very insightful

Epigenetic Technological Applications Yujun George Zheng, 2015-05-30 Epigenetic Technological Applications is a compilation of state of the art technologies involved in epigenetic research Epigenetics is an exciting new field of biology research and many technologies are invented and developed specifically for epigenetics study With chapters covering the latest developments in crystallography computational modeling the uses of histones and more Epigenetic Technological Applications addresses the question of how these new ideas procedures and innovations can be applied to current epigenetics research and how they can keep pushing discovery forward and beyond the epigenetic realm Discusses technologies that are critical for epigenetic research and application Includes epigenetic applications for state of the art technologies Contains a global perspective on the future of epigenetics

**Infrastructure and Activities of Cells** M.C.E. van Dam-Mieras, B C Currell, R C E Dam-Mieras, 2016-04-06 Cells may be seen as superb factories in so far as they take in one set of chemicals nutrients and convert them into new products Each cell taking in its own set of chemicals and

making its own collection of products Describing the structural organisation of cells in both unicellular and multicellular organisms this text considers the organisation and management which lead to these factories operating in a coordinated and functional manner Reproduction the one feature special to cell activities is addressed in detail **Biotechnological**

**Innovations in Health Care** Sam Stuart, 2013-10-22 Biotechnological Innovations in Health Care provides insight and information on how modern biotechnology may be applied to produce useful medicinal products This book begins with a general introduction to biotechnology summarizing its historical development possible role in health care and impact on society The stages involved in developing and producing a medicinal product and general elements that a licensing file of a biotechnological medicinal product should contain are also deliberated The rest of the chapters are devoted to several case studies that commences with the initial concept of examining the need for the product followed by product evaluation through discussion of the pre clinical and clinical trials This publication is valuable to students and researchers with a basic understanding of restriction enzymes genetic manipulation procedures and principles underpinning cell fusion technology

Biosynthesis & Integration of Cell Metabolism B C Currell, R C E Dam-Mieras, 2017-12-20 Biosynthesis Integration of Cell Metabolism **The Molecular Fabric of Cells** BIOTOL, B C Currell, R C E Dam-Mieras, 2013-10-22 Knowledge of the molecules which make up cells not only provides the basis upon which an understanding of cell function may be developed but also provides the knowledge needed to manipulate and purify chemicals The text therefore holds an important and key position in both applied biology and biotechnology *Analytical Techniques in Immunochemistry* Terry M.

Phillips, 1991-12-23 Explores the principles and presents step by step recipes for isolating and measuring biological materials using modern immunochemical methods including such new procedures as high performance immunoaffinity chromatography capillary electrophoresis and blotting Also includes clear drawings of **Technical Aspects of**

**Toxicological Immunohistochemistry** Syed A. Aziz, Rekha Mehta, 2015-12-23 This authoritative volume examines immunohistochemical methods aimed at investigating the toxicologic pathology of rodent non human primate and aquatic animal tissues Eleven comprehensive chapters provide pathologists and researchers in various sub disciplines of toxicology with a comprehensive review of the methods and approaches for immunohistochemical staining in various target tissues It explores the tissue antigen and antibody specific problems that may be encountered during the staining procedures and provide potential avenues for resolving various methodological issues Special attention is paid to the latest enhancement procedures for antigen retrieval and visualization as well as image analysis and antigen quantification Written by leading researchers in toxicology and pathology this book is a significant resource for toxicologists and pathologists working with rodents monkeys and aquatic animal tissues **Immunochemistry** Vanoss, 1994-08-24 This work offers comprehensive

coverage of the chemical and physicochemical aspects of immunological interactions as well as the molecules and moieties involved in these interactions It covers in detail the Ag Ab interaction including attraction at a distance between epitope and

paratope College or university bookstores may order five or more copies at a special student price available upon request

**Bioprocess Technology** Open Universiteit (Heerlen, Netherlands),BIOTOL (Project),Thames Polytechnic,1992 This text aims to provide knowledge and understanding of the technology associated with the production and recovery of biotechnological products Each chapter written to fulfill stated learning objectives builds into a logically developed course Co operation in the planning of the text between teachers and industrialists should ensure relevance to modern industrial needs

*Near-Infrared Dyes for High Technology Applications* S. Daehne,Ute Resch-Genger,Otto S. Wolfbeis,2012-12-06 This book summarizes the results of the NATO Advanced Research Workshop on Syntheses Optical Properties and Applications of Near Infrared NIR Dyes in High Technology Fields held at Trest Czech Republic from September 24 to 27 1997 It was attended by 52 scientists from 16 countries among them 18 participants from 8 Eastern Europe The Workshop has been stimulated by the great progress that has been made in utilizing NIR dyes in high technology areas This has been triggered by the availability of reliable vel small and inexpensive laser diodes emitting in the NIR region which raise the analytical detection limits by several orders of magnitude allow time resolved measurements for temporal discrimination between spectrally similar species and make possible miniaturization as well as remote sensing through space and by fiber optical techniques Furthermore NIR dyes proved to be vel important in other high technology fields such as laser physics optical recording techniques nonlinear optics biochemistty and medicine *Antigens—Advances in Research and Application: 2012 Edition* ,2012-12-26 Antigens Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Antigens The editors have built Antigens Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Antigens in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Antigens Advances in Research and Application 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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**Bioinformatics Methods in Cancer Biology** Geng Chen,Lu Xie,D. P. Kreil,Fangqing Zhao,2022-10-17 Handbook of

Food Science, Technology, and Engineering - 4 Volume Set Y. H. Hui, Frank Sherkat, 2005-12-19 Advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best While almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have The

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