

Nanobody Technology and New Molecular Biology Methods to Advance Rapid Diagnostic Test for Neglected Tropical Diseases

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Abstract

Worldwide, the cumulative annual disabilities and deaths due to neglected tropical diseases (NTDs) are in the millions, with most cases found in the low-income countries. The World Health Organization (WHO) has proposed a road map to eliminate NTDs by the year 2030. Core interventions being implemented to achieve this target are vaccinations, chemotherapeutic treatments, vector control, and practicing hygiene. Whereas multiple successes have been registered so far, inadequacies or the complete absence of diagnostics for some of the diseases being targeted, are however hampering ongoing eradication campaigns. Current diagnostics for NTDs are costly, require sophisticated gadgets, depend on electricity, are time consuming and labor intensive, have low detection/discriminatory power, or require trained personnel for operation. For these reasons, the use of such diagnostics is limited to only well-equipped laboratories, often inaccessible to the poor who are the most affected by the NTDs. To increase accessibility to diagnostics by those who need it the most, Rapid Diagnostic Tests (RDTs) are being developed by translating existing diagnostic technologies, or by invention of new technologies. Here, we reviewed conventional diagnostics for NTDs as well as their RDT translated formats, and explored nanobodies (Nbs) as alternative reagents for the development of the RDTs.

Keywords: nanobodies, rapid antigen test, diagnosis, neglected tropical diseases

1. Introduction

According to data from the WHO, communicable diseases ranked among the top 10 causes of deaths in the low-income countries [1]. In contrast, high-income countries control these diseases through vigorous implementation of prevention and treatment campaigns, reinforced with timely diagnosis. Recently, the WHO has established a road map for eradication of the neglected tropical diseases NTDs, by the year 2030 [2]. Neglected tropical diseases are designated as “neglected” partly because

Diagnostic Technologies Selected Tropical Diseases

David Whitehouse, Ralph Rapley



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Technological Innovations for Managing Tropical Diseases Matthew Chidozie Ogwu, Sylvester Chibueze Izah, 2025-02-19

Tropical diseases continue to impose a significant burden on global health particularly in low and middle income regions. These diseases challenge healthcare systems, exacerbate economic disparities and threaten global public health. In this rapidly evolving landscape, integrating advanced technologies offers unprecedented opportunities to transform the prevention, diagnosis, monitoring and treatment of tropical diseases. This groundbreaking volume explores biosensor advancements, wearable technologies, artificial intelligence, predictive modeling, mobile health and biotechnological innovations. Each chapter delves into how these cutting edge solutions address the unique challenges of tropical diseases, from improving diagnostics and disease surveillance to enabling equitable access to care in resource limited settings. The book also examines the ethical, technical and economic barriers to implementation, providing actionable strategies to overcome these challenges. Key features include: In depth analysis of innovative diagnostic tools including biosensors and IoT enabled wearables; Insights into AI and machine learning applications for outbreak prediction and resource allocation; Case studies of mobile health, telemedicine and robotics in tropical disease management; Exploration of biotechnological and therapeutic advances tailored to tropical diseases; Critical analysis of ethical considerations, data security and equitable technology access; A forward looking perspective on emerging trends and their alignment with global health goals. Aligned with the United Nations Sustainable Development Goals (SDGs), this book emphasizes the role of technology in achieving SDG 3 Good Health and Well being and SDG 9 Industry, Innovation and Infrastructure. It is an indispensable resource for public health professionals, researchers, policymakers, bioengineers, healthcare technologists and academics seeking to address the complexities of tropical diseases with innovative, sustainable solutions. This is a transformative guide to leveraging technology for a healthier, more resilient world.

Status of Biomedical Research and Related Technology for Tropical Diseases, 1985 *Status of Biomedical Research and Related Technology for Tropical Diseases* United States. Congress. Office of Technology Assessment, 1985

Proceedings of the Future Technologies Conference (FTC) 2022, Volume 3 Kohei Arai, 2022-10-13

The seventh Future Technologies Conference 2022 was organized in a hybrid mode. It received a total of 511 submissions from learned scholars, academicians, engineers, scientists and students across many countries. The papers included the wide arena of studies like Computing, Artificial Intelligence, Machine Vision, Ambient Intelligence and Security and their jaw breaking application to the real world. After a double blind peer review process, 177 submissions have been selected to be included in these proceedings. One of the prominent contributions of this conference is the confluence of distinguished researchers who not only enthralled us by their priceless studies but also paved way for future area of research. The papers provide amicable solutions to many vexing problems across diverse fields. They also are a window to the future world which is completely governed by technology and its multiple applications. We hope that the readers find this volume

interesting and inspiring and render their enthusiastic support towards it **Status of biomedical research and related technology for tropical diseases** ,1985 *Dermatopathology of Tropical Diseases* Omar P Sangüeza,Martin Sangüeza,Francisco Bravo,2017-03-15 The majority of tropical diseases manifest themselves through the skin and while many can be diagnosed on physical examination dermatopathologic results are often of critical importance to the diagnostic process However general dermatopathology texts lack images of diseases endemic in the developing world they also lack clinical correlates linking the pathology to the clinical entity This is a problem because greater movement between countries where tropical diseases are prevalent and Europe North America and other developed nations makes it essential for physicians to be able to recognize diagnose and treat these diseases Dermatopathology of Tropical Diseases covers the pathology and clinical correlations of the most important tropical diseases Each entity is described using brief text that summarises its epidemiology pathogenesis and clinical features The diagnostic process is then described and illustrated using both clinical and histopathologic images Wherever possible different examples are shown of the same disease in order to illustrate as wide a variety of presentations as possible Extensively illustrated with almost 600 photographs Dermatopathology of Tropical Diseases is an invaluable resource for dermatopathologists pathologists and dermatologists based in the developing world as well as those in developed countries who see tropical diseases in returned travellers and immigrant populations Key features Includes chapters on all major tropical diseases with both clinical and histopathological images provided for each entity allowing the reader to correlate pathological characteristics with the clinical presentation of each disease Wherever possible different examples of the same disease are shown to illustrate the variety of presentations Lavishly illustrated with almost 600 colour photographs **Tropical Diseases Bulletin** ,1912 *Science and Technology for Development* ,1989 *The selection and use of essential in vitro diagnostics* ,2021-01-29 *Genomics and Clinical Diagnostics* David Whitehouse,Ralph Rapley,2019-01-29 This book provides a timely graduate level introduction to the fast paced area of genomics and clinical diagnostic technologies and introduces the concept of applications based on this area

Machine Learning for Disease Detection, Prediction, and Diagnosis Tanupriya Choudhury,Avita Katal,2025-07-08 The book Machine Learning for Disease Detection Prediction and Diagnosis can be a comprehensive guide to the novel concepts techniques and frameworks essential for improving the viability of existing machine learning practices It provides an in depth analysis of how these new technologies are helpful to detect predict and diagnose diseases more accurately The book covers various topics such as image classification algorithms supervised learning methods like support vector machines SVM deep neural networks DNNs convolutional neural networks CNNs etc unsupervised approaches such as clustering algorithms as well as reinforcement learning strategies This book is an invaluable resource for anyone interested in machine learning applications related to disease detection or diagnosis It explains different concepts and provides practical examples of how they can be implemented using real world data sets from medical imaging datasets or public health records databases

among others Furthermore it offers insights into recent advances made by researchers which have enabled automated decision making systems based on AI models with improved accuracy over traditional methods This text also discusses ways through which current models could improve further by incorporating domain knowledge during the model training phase thereby increasing their efficacy even further Overall this book serves as a great source of information about the latest advancements made in the field of Machine Learning Artificial Intelligence towards efficient building systems capable enough detecting diagnosing diseases automatically while avoiding human errors resulting due manual intervention at any stage along process pipeline thus ensuring better outcomes overall Moreover it helps readers understand the underlying principles behind each technique discussed so that they may apply them according to their own application scenarios efficiently without worrying much about the implementation details required to get the job done the right way the first time around itself Annual Report to the Congress for ... United States. Congress. Office of Technology Assessment,1996

Advances in Parasitology ,1994-07-22 Advances in Parasitology is a series of up to date reviews of all areas of interest in contemporary parasitology It includes medical studies on parasites of major influence such as typanosomiasis and scabies and more traditional areas such as zoology taxonomy and life history which shape current thinking and applications

Manson's Tropical Diseases E-Book Jeremy Farrar,Peter J. Hotez,Thomas Junghanss,Gagandeep Kang,David Lalloo,Nicholas J. White,Patricia J. Garcia,2023-07-14 For 125 years physicians have relied on Manson s Tropical Diseases for a comprehensive clinical overview of this complex and fast changing field The fully revised 24th Edition Dr Jeremy Farrar along with an internationally recognized editorial team global contributors and expert authors delivers the latest coverage on parasitic and infectious diseases from around the world From the difficult to diagnose to the difficult to treat this highly readable award winning reference prepares you to effectively handle whatever your patients may have contracted Covers all of tropical medicine in a comprehensive manner general medicine in the tropics and non clinical issues regarding public health and ethics Serves as an indispensable resource for physicians who treat patients with tropical diseases and or will be travelling to the tropics or who are teaching others in this area Contains a new section on 21st Century Drivers of Tropical Medicine with chapters covering Poverty and Inequality Public Health in Settings of Conflict and Political Instability Climate Change and Medical Product Quality and Public Health Includes all new chapters on Surgery in the Topics Yellow Fever Systemic Mycoses and COVID 19 Covers key topics such as drug resistance emerging and reemerging infections such as Zika Ebola and Chikungunya novel diagnostics such as PCR based methods point of care tests such as ultrasound public health in settings of conflict and political instability and much more Differentiates approaches for resource rich and resource poor areas Includes reader friendly features such as highlighted key information convenient boxes and tables extensive cross referencing and clinical management diagrams **Current Topics in Neglected Tropical Diseases** ,2019-12-04 Neglected tropical diseases NTDs is a diverse group of communicable diseases that prevail in tropical and subtropical

conditions in 149 countries NTDs affect more than one billion people and cost developing economies billions of dollars every year According to the World Health Organization WHO NTDs mainly affect populations living in poverty without adequate sanitation and in close contact with infectious vectors domestic animals and livestock Migration as well as climate change and variability are key factors in NTD prevalence Therefore NTDs deserve more study Recently viruses transmitted by vectors arboviruses that affect not only people living in the tropics but also travelers and migrating populations have been causing epidemics Examples of these viruses include Dengue Chikungunya Zika Mayaro and encephalitis viruses These viruses emerge and reemerge in multiple regions of the world as occurred in the Americas recently 2013 2017 with Chikungunya and Zika This book aims to update the significant epidemiological and clinical research of NTDs in many aspects with a multinational perspective

Handbook of Molecular Biotechnology Dongyou Liu, 2024-09-05 With a history that likely dates back to the dawn of human civilization more than 10 000 years ago and a record that includes the domestication and selective breeding of plants and animals the harnessing of fermentation process for bread cheese and brewage production and the development of vaccines against infectious diseases biotechnology has acquired a molecular focus during the 20th century particularly following the resolution of DNA double helix in 1953 and the publication of DNA cloning protocol in 1973 and transformed our concepts and practices in disease diagnosis treatment and prevention pharmaceutical and industrial manufacturing animal and plant industry and food processing While molecular biotechnology offers unlimited opportunities for improving human health and well being animal welfare agricultural innovation and environmental conservation a dearth of high quality books that have the clarity of laboratory manuals without distractive procedural details and the thoroughness of well conversed textbooks appears to dampen the enthusiasm of aspiring students In attempt to fill this glaring gap Handbook of Molecular Biotechnology includes four sections with the first three presenting in depth coverage on DNA RNA and protein technologies and the fourth highlighting their utility in biotechnology Recognizing the importance of logical reasoning and experimental verification over direct observation and simple description in biotechnological research and development the Introduction provides pertinent discussions on key strategies i e be first be better and be different effective thinking lateral parallel causal reverse and random and experimental execution which have proven invaluable in helping advance research projects evaluate and prepare research reports and enhance other scientific endeavors Key features Presents state of the art reviews on DNA RNA and protein technologies and their biotechnological applications Discusses key strategies effective thinking and experimental execution for scientific research and development Fills the gap left by detailed ridden laboratory manuals and insight lacking standard textbooks Includes expert contributions from international scientists at the forefront of molecular biotechnology research and development Written by international scientists at the forefront of molecular biotechnology research and development chapters in this volume cover the histories principles and applications of individual techniques technologies and constitute stand alone yet interlinked lectures that

strive to educate as well as to entertain Besides providing an informative textbook for tertiary students in molecular biotechnology and related fields this volume serves as an indispensable roadmap for novice scientists in their efforts to acquire innovative skills and establish solid track records in molecular biotechnology and offers a contemporary reference for scholars educators and policymakers wishing to keep in touch with recent developments in molecular biotechnology

Emerging Infectious Diseases ,1998 *Diagnostic Pathology: Hospital Autopsy - E-BOOK* Dylan V. Miller,Billie S. Fyfe,2024-05-25 This expert volume in the Diagnostic Pathology series is an excellent resource for practitioners at all levels of experience and training Covering all aspects of hospital autopsy in the way it is practiced clinically this volume incorporates the most up to date scientific and technical knowledge to provide a comprehensive overview of all key issues relevant to today s practice helping pathologists accurately determine the cause and mechanism of in hospital death Richly illustrated and easy to use Diagnostic Pathology Hospital Autopsy second edition is a visually stunning one stop resource for every practicing pathologist resident student or fellow as an ideal day to day reference or as a reliable training resource Features complete coverage of every aspect of autopsy practice including clinical presentation with chart review technical and diagnostic aspects of autopsy performance and reporting Presents classic autopsy techniques while also emphasizing the role of molecular studies and other laboratory and ancillary tests not commonly thought of during autopsy practice Contains new chapters on emerging pathogens and medical entities deaths from COVID 19 or vaccine complications multisystem inflammatory disorders in children adenoviral hepatitis in children and more toxicity pathology associated with new drug therapies CAR T mRNA vaccine related immune events etc and new cardiac and other medical devices Features new or updated content on morgue autopsy suite maintenance enhanced biosafety techniques the role of the autopsy practitioner in a pandemic setting and more Provides important clinical and diagnostic information through more than 1 100 clinical and gross pathology photographs histologic images full color illustrations and radiologic images Includes case presentations highlighting important aspects of reporting that impact clinicians as well as next of kin Focuses on pathologists in hospital settings but also provides value to forensic pathologists private practice pathologists and others involved in death investigation such as coroners medical examiners law enforcement and pathology residents Employs consistently templated chapters bulleted content key facts a variety of tables annotated images pertinent references and an extensive index for quick expert reference Any additional digital ancillary content may publish up to 6 weeks following the publication date

Congressional Presentation United States. Agency for International Development, **Vegetable Diseases** Steven T. Koike,Peter Gladders,Albert O. Paulus,2007 Vegetable Diseases focuses primarily on diseases that are caused by pathogens Chapters dealing with the general principles of the causes diagnosis and control of vegetable crop diseases are followed by crop based chapters Each disease entry includes a brief introduction to the disease detailed description of disease symptoms information on the pathogen and disease development and suggestions on how to manage the problem Top quality color

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