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Editorial: Recent advances in diagnosis, prognosis, and therapy of oncogenic virus- driven tumors

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Editorial on the Research Topic

Recent advances in diagnosis, prognosis, and therapy of oncogenic
virus-driven tumors

In recent years, the understanding of the molecular mechanisms underlying virus-induced tumorigenesis has grown exponentially, leading to breakthroughs in diagnosis, prognosis, and therapy. The development of cancer malignancy is multifaceted, involving a complex interplay of various factors rather than relying solely on one aspect. This intricate process encompasses genetic mutations, epigenetic modifications, environmental factors, and lifestyle choices. While numerous factors play a role in cancer, it is noteworthy that certain viruses, known as oncogenic viruses, can drive the cancer onset and progression in humans (1, 2). Remarkably, oncogenic viruses are implicated in a notable proportion of human cancers, accounting for >20% of cases across different cancer types (3, 4).

Oncogenic viruses are commonly classified as either DNA or RNA viruses. Notable viral agents, including high-risk types of human papillomavirus (HPV) (5), human polyomaviruses (HPyV) (6), Epstein-Barr virus (EBV), hepatitis B virus (HBV), hepatitis C virus (HCV), human immunodeficiency virus type 1 (HIV-1), human T cell lymphotropic virus type 1 (HTLV-1), and human herpesvirus type 8 (HHV-8 or Kaposi's sarcoma herpesvirus, KSHV), have been designated as human carcinogens (Group 1) by the International Agency for Research on Cancer (IARC) (<https://monographs.iarc.who.int/list-of-classifications/>), while additional viruses, such as Merkel cell polyomavirus (MCPyV), are currently considered as probably carcinogenic in humans (Group 2A). Furthermore, several other viruses have been postulated, to varying degrees, to potentially contribute to oncogenesis. Of note, patients affected by immune system impairments, such as those immune-suppressed/immune-compromised, are more prone to develop oncogenic virus-driven tumors because unable to counteract in full, with their immune system, the oncogenic potential of DNA and RNA tumor viruses.

Viruses are recognized for their ability to replicate by hijacking host mechanisms to serve their own purposes. Oncogenic viruses possess the unique ability to induce tumorigenesis, facilitating the spread of malignancy from infected cells to adjacent healthy cells (1, 3, 4). The

Recent Advances In Virus Diagnosis

Arturo Cuomo



Recent Advances In Virus Diagnosis:

Recent Advances in Virus Diagnosis M.S. McNulty, J.B. McFerran, 2012-12-06 The traditional approach to diagnosis of virus infections by isolation of the causative virus is usually both slow and expensive. More recently the emphasis has been on the direct detection of viruses or viral antigens in clinical specimens. This can be done using established techniques such as immunofluorescence or electron microscopy or by newly developed biochemical methods. The purpose of this meeting was to review these and other developments in the laboratory diagnosis of virus infections. We would like to thank all those who contributed to the success of this meeting. In particular we are grateful to the CEC for financial sponsorship to Professor C Dow, Director of the Veterinary Research Laboratories for help in organising the meeting and to Miss B Hamilton for her excellent typing of the manuscripts. M. S. McNulty, J. B. McFerran. VII CONTENTS. Page. Preface. V. VIRAL DIAGNOSIS BY IMMUNOFLUORESCENCE. P. S. Gardner. APPLICATIONS OF IMMUNOFLUORESCENCE IN VETERINARY VIRAL DIAGNOSIS. M. S. McNulty and G. M. Allan. 15. TAGGING OF VIRAL ANTIGENS USING IMMUNOPEROXIDASE AND IMMUNOGOLD TECHNIQUES. R. Ducatelle, F. Castryck and J. Hoorens. 27. DETECTION OF BVD VIRUS IN VIRAEMIC CATTLE BY AN INDIRECT IMMUNOPEROXIDASE TECHNIQUE. A. Meyling. 37. VIRAL DIAGNOSIS BY ELECTRON MICROSCOPY. J. D. Almeida. 47. CAPTURE ASSAYS FOR THE DETECTION OF VIRUS SPECIFIC IgM ANTIBODY. R. S. Tedder. 60. DETECTION AND IDENTIFICATION OF PAPILLOMAVIRUSES IN BENIGN AND MALIGNANT TUMOURS OF CATTLE. M. S. Campo. 72. DETECTION OF VIRAL NUCLEIC ACIDS IN CELL CULTURES. Recent Advances in the Diagnosis and Management of Plant Diseases

L.P. Awasthi, 2015-11-19 This book is a compilation of the most challenging and significant chapters on the diagnosis and management of important bacterial, fungal, viral, viroid, phytoplasma, non-parasitic diseases and various physiological disorders in various crops. The chapters have been contributed by eminent plant pathologists having wide experience of teaching and research on various crops with different types of diseases which cause great economic losses. The book would be very useful for students, teachers and researchers of plant pathology. This book highlights recent advances made in the development of new types of resistance in host plants and alternative strategies for managing plant diseases to improve food quality and reduce the negative public health impact associated with plant diseases. Having entered into 21st century, advancements in the diagnosis of plant pathogens and plant disease management need to be closely examined and adequately applied so that newer challenges facing plant pathology could be adequately addressed in attaining food security for the growing population. Substantial advancements have been made in terms of expanding knowledge base of the biology of plant-microbial interactions, disease management strategies and application and practice of plant pathology. Application of molecular biology in plant pathology has greatly improved our ability to detect plant pathogens and in increasing our understanding of their ecology and epidemiology. Similarly, new technologies and resources have been evolved for the development of sustainable crop protection systems by different control strategies against various pests and pathogens that are important components of

the integrated pest management programme Natural products and chemical compounds discovered as a result of basic research and molecular mechanisms of pathogenesis have led to the development of biorational pesticides Biological control has been found to be the most significant approach to plant health management during the twentieth century and promises using modern biotechnology to be even more significant in the twenty first century

Recent Advances in AI-enabled Automated Medical Diagnosis Richard Jiang,Li Zhang,Hua-Liang Wei,Danny Crookes,Paul Chazot,2022-10-20

Developments in deep learning in the past decade have led to phenomenal growth in AI based automated medical diagnosis opening a door to a new era of both medical research and medical industry It is a golden age for researchers involved in the development and application of advanced machine learning techniques for medical and clinical problems This book captures the most recent important advances in this cross disciplinary topic and brings the latest advances to a wide audience including experts researchers students industry developers and medical services

Respiratory Virus Infection: Recent Advances Kelvin To,Ville Peltola,Shin-Ru Shih,2020-07-14

New Advances in Crop Disease Management Sangita Sahni,Ganesh Thapa,Bishun Deo Prasad,2024-11-08 Crop protection is becoming increasingly important due to the need for food security and to meet growing environmental challenges This new book New Advances in Crop Disease Management provides readers with an updated and comprehensive overview of diverse crop protection strategies with special emphasis on the recent advances in crop protection approaches fundamental concepts principles methodology relationships and benefits for crop protection and human health It covers a variety of disciplines such as plant pathology biochemistry cell and molecular biology plant physiology host pathogen interactions precision agriculture decision analysis disease risk new ways of exploiting host genetic diversity including host resistance deployment biological control and microbial interactions surveillance and detection technologies and the consequences of climate change and signaling The book contains twenty chapters and begins with the role of biotechnology and its implications in crop disease detection and protection It then discusses the plant response to pathogen attack molecular basis of host pathogen interaction and induction of defense response viz R gene phytoalexins etc and advancement in early detection methodologies It also delves into induced mutation as new technology for resistant crop development The last part details the recent approaches and applications of resistant crop lines development including resistant pulses development approaches mining and mapping of R genes gene pyramiding lactic acid bacteria as biocontrol agents effecteromics and nanotechnology in crop disease management and the applications of phytochemicals and CRISPR Cas in the development of disease resistant crops for future New Advances in Crop Disease Management will be a key reference in the field of crop science and plant pathology agriculture for faculty and industry professionals as well as a valuable textbook reference for undergraduate and graduate students

Recent Advances in Cancer Diagnostics and Therapy Anjana Pandey,Saumya Srivastava,2022-01-18 This book provides information about different types and stages of cancer and their subtypes with their respective molecular mechanisms etiology histopathology

and cellular origins This book also provides detailed information about cancer incidence mortality and different types of technologies both bio and nano employed in cancer diagnosis and screening and their applications in cancer therapies This book informs readers about molecular mechanisms of cancer diagnosis and therapies along with different computational techniques used on a single platform The chapters include a broad and integrated perspective on cancer related topics This book covers both conventional and emerging techniques employed in cancer screening and diagnosis including imaging biomarker and electrochemical nanosensor based approaches with detailed information on sensor development Similarly this book also covers the mechanisms of different conventional and emerging herbal and nano therapies used in cancer treatment The authors discuss applications of different computational and mathematical tools such as machine learning methods that can be employed in cancer diagnosis and therapy at the level of personalized medicine Features Offers an integrated approach to provide information about all aspects of cancer biology diagnosis and therapy Focuses on both conventional and emerging tools techniques applicable in cancer screening and diagnosis Covers the mechanisms of conventional and emerging anticancer drugs and therapies Provides insights about a personalized medicine based approach in cancer diagnosis and therapy This book is essential for university students course lecturers researchers and industrialists working in the fields of cancer biology medicine and pharmacology

Challenges in Plant Disease Detection and Recent Advancements Amar Bahadur, 2024-07-17 *Recent Advances in Liver Diseases and Surgery* Hesham Abdeldayem, Ahmed Elshaarawy, Tary Salman, 2015-10-28 This book presents the most recent advances in the field of liver diseases and surgery including the remarkable advances in Hepatitis C therapy liver tumors injuries cysts resections transplantation and preoperative management of patients with liver diseases The editors are the dean and vice deans of the National Liver Institute Menoufia University a dedicated international center of excellence and a leading medical institution in the Middle East for the diagnosis and management of liver diseases and advanced training and research in hepatobiliary sciences The authors are leading experts from four continents across the globe North America Europe Asia and Africa In other words the book team reflects an international dream team of experts in the area of liver diseases

Geminivirus: Detection, Diagnosis and Management R.K. Gaur, Pradeep Sharma, Henryk Czosnek, 2022-05-28 Geminivirus Detection Diagnosis and Management focuses on the latest techniques for managing diseases caused by these circular single stranded ss DNA genomes The most significant impact of plant diseases in host populations is often caused by emerging diseases whose incidence in a plant host is increasing as a result of long term changes in their underlying epidemiology Genetic changes in pathogen and host populations as well as changes in host ecology and environment are major factors contributing to disease emergence Understanding plant virus evolution is crucial for modeling the within host and between host dynamics and genetics of virus populations The book presents a comprehensive review of how these viruses develop including contributing factors such as population bottlenecks during cell to cell movement systemic colonization or between host transmission by

different procedures Presented in five sections Detection and Diagnosis Emergence and Diversity Vector and Transmission Virus Host Interaction and Disease Management the book includes host range determinant and virulence factors involved in pathogenesis virus vector interactions during acquisition retention and transmission and evaluating management strategies to control Geminivirus The book is an essential reference for students and researchers interested in plant virology particularly begomoviruses geminiviruses and vector transmission biology Introduces identification and characterization of geminiviruses that infect agricultural crops their wild relatives and weed hosts Discusses recombination and reassortment mechanisms influencing viral genetic diversity virulence and vector transmission Explores the origin evolution and bottlenecks of Geminiviruses Introduces identification and characterization of geminiviruses that infect agricultural crops their wild relatives and weed hosts Discusses recombination and reassortment mechanisms influencing viral genetic diversity virulence and vector transmission Explores the origin evolution and bottlenecks of Geminiviruses

Recent Advances on Soft Computing and Data Mining Rozaida Ghazali, Nazri Mohd Nawi, Mustafa Mat Deris, Jemal H. Abawajy, 2019-12-04 This book provides an introduction to data science and offers a practical overview of the concepts and techniques that readers need to get the most out of their large scale data mining projects and research studies It discusses data analytical thinking which is essential to extract useful knowledge and obtain commercial value from the data Also known as data driven science soft computing and data mining disciplines cover a broad interdisciplinary range of scientific methods and processes The book provides readers with sufficient knowledge to tackle a wide range of issues in complex systems bringing together the scopes that integrate soft computing and data mining in various combinations of applications and practices since to thrive in these data driven ecosystems researchers data analysts and practitioners must understand the design choice and options of these approaches This book helps readers to solve complex benchmark problems and to better appreciate the concepts tools and techniques used

Recent Advances in Animal Virology Yashpal Singh Malik, Raj Kumar Singh, Mahendra Pal Yadav, 2019-11-14 This book discusses the prominence and implication of the viral diseases that are a major threat to animals around the globe A number of these diseases have also shown links with human populations which has implications for public health This book offers detailed and up to date information on viral diseases in livestock and poultry that were and or are still a problem Including cutting edge developments it also highlights several landmark contributions in the field of virology from India Additionally the book features tables and figures showing important clinical data and recommendations with references for further information It also explores the economic impact of viral diseases for farmers and the livestock industry providing several examples Further it presents the latest information on viral diseases in global context with a focus on state of art molecular tools for the development of diagnostics prophylactics and therapeutics Lastly the book also describes the challenges posed by the emerging and transboundary viral infections and our preparedness to counter them

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1985 **Recent Advances in Biosensor**

Technology: Volume 2 Vivek K. Chaturvedi, Dawesh P. Yadav, Mohan P. Singh, 2023-09-18 Recent Advances in Biosensor Technology Volume 1 is a comprehensive guide to the latest developments in biosensor technology written by experts in bioengineering and biosensor development. The book is an essential resource for researchers and biomedical engineers interested in the latest developments in biosensor technology. The volume covers the applications of biosensors in different fields. It features 9 chapters that cover key themes in this area, including biosensors for natural bioactive compounds, wearable biosensors in healthcare, 3D bioprinting and biosensors, biosensors for neurodegenerative diseases, protein biosensing and pathogen detection, biosensors for diabetes diagnosis, paper-based biosensors in diagnostics, enzymatic biosensors and their applications, and nanobiosensors in agriculture. One of the key features of this book is its detailed discussion of the novel research findings in biosensor technology, providing readers with the most up-to-date information in the field. Each chapter includes a comprehensive review of relevant literature as well as practical examples to demonstrate the potential applications of biosensors in various fields. Furthermore, this book includes detailed references for further reading, making it an excellent resource for readers looking to deepen their understanding of biosensor technology.

Recent Advances in Parasitomics Juan David Ramírez González, 2025-01-25 This book presents a new era in parasitology research and involves several contributions on translational results. Readers are equipped with the recent advances of parasitomics, the OMICS study of parasites. World-renowned experts in the field of molecular biology and omics provide a glance of how omics have revolutionized our understanding of parasites and vectors, including the implications of these advances. A particular focus is on comprehending the biology, diagnostics, surveillance, response to treatment, prevention, and control of parasites. Final cutting-edge studies on disease vectors round out this volume. Overall, five thematic book sections provide a clear overview and smooth findability of contents. Parasitic diseases represent an important burden for healthcare systems, particularly in endemic countries. In recent decades, there have been several advances in dissecting the genome, transcriptome, and proteome of parasites, allowing researchers worldwide to exploit this information and ameliorate our understanding of parasitoses and infections. For the first time, this collection will permit scientists, students, and all medical professionals around the world to update their knowledge and uncover the impact of going from basic science to implementation in order to mitigate parasitic diseases. In this way, the present work makes an indispensable contribution to practical progress regarding research on Neglected Tropical Diseases (NTDs) and the Sustainable Development Goal (SDG) 2: Good Health and Well-Being.

Recent Advances in Bovine Tuberculosis Federico Blanco, Flabio R. Araujo, Jacobus Henri De Waard, Christophe J. Queval, 2022-07-01 **Recent Advances in Computing Sciences** Sophiya Sheikh, Manmohan Sharma, Amar Singh, 2023-12-21 The 1st International Conference on Recent Advances in Computing Sciences (RACS 2022) organized by the School of Computer Application, Lovely Professional University, Jalandhar, Punjab, from 4th to 5th November 2022. The conference focuses on discussing issues, exchanging ideas, and the most recent innovations towards the

advancement of research in the field of Computing Sciences and Technology All technical sessions were predominantly related to Data Science Artificial Intelligence Remote Sensing Image Processing Computer Vision Data Forensics Cyber Security Computational Sciences Simulation Modelling Business Analytics and Machine Learning The main objective of this conference is to provide a common platform for academia and industry to discuss various technological challenges and share cognitive thoughts It provided a thought provoking platform to discuss and disseminate novel solutions for real world problems in a dynamic and changing technological environment The main success of RACS 2022 is to give an opportunity for the participants to enhance their knowledge of recent computing technologies

Current advances in genomics and gene editing tools for crop improvement in a changing climate scenario Vijay Rani Rajpal, Deepmala Sehgal, Ravi

Valluru, Sukhwinder Singh, 2023-07-10

Current advancements in real-time plant pathogen diagnostics: From lab assays to in-field detection Ravinder Kumar, Milan Kumar Lal, Pramod Prasad, Rahul Kumar Tiwari, 2023-08-31

Recent Advances in Virus Diagnosis M. S. McNulty, J. B. McFerran, 1984-08-31

Innovative Approaches in Diagnosis and Management of Crop Diseases Rakesh Kumar Singh, Gopala, 2021-09-28 This book is the first of the 3 volume Innovative Approaches in Diagnosis and Management of Crop Diseases which provides an abundance of new research and information on major diseases of various crops along with new techniques and technology for the detection of plant pathogens along with appropriate management strategies Divided into three volumes and with chapters written by renowned and expert scientists working in different areas of plant pathology the volumes cover important diseases of crops incited by bacteria fungi viruses viroids phytoplasma and nematodes It addresses these disease challenges to commercial field and horticultural crops and their management Chapters cover recent advances in diagnosis and detection of diseases of rice wheat pulses guava aonla cucurbits ginger sesame cotton pigeonpea field pea small millets maize and cruciferous vegetables as well as ornamental plants Innovative Approaches in Diagnosis and Management of Crop Diseases Volume 1 focuses on the Mollicute class of bacteria It looks at the detection diagnosis and management of phytoplasma diseases and viroids CRISPR Cas9 genome editing in plants for virus resistance next generation sequencing technologies and more Key features Presents diverse research of leading plant pathologists on detection diagnosis and management of crop diseases Shares innovative and emerging techniques for diagnosis and management of major plant diseases Covers a vast array of important crops and their diseases Volume 2 looks specifically at the diseases of field and horticultural crops while Volume 3 reviews the advances in the use of nanomolecules and biocontrol agents Diagnosis and management of biotic stresses play a pivotal role in efficient agriculture production and together these volumes of Innovative Approaches in Diagnosis and Management of Crop Diseases provide reviews of crucial research to effectively advance the detection diagnosis and management of crop diseases

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