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New and Emerging Plant Viruses

The Threat to Food Security

Editors: Alireza Golnaraghi, PhD
Rajarshi Kumar Gaur, PhD

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Emerging and re-emerging viruses are a constant threat to plants. Despite intensive efforts to manage and prevent plant viruses and their potential vectors in crop production processes, many crops are damaged each year. This book, **New and Emerging Plant Virus Sources: The Threat to Food Security,** reviews the progress made to date and the challenges ahead in the field of plant viruses and agricultural production.

The book covers various aspects of plant viruses in two sections:

- Different Sources of Plant Viruses
- Plant Virus-Host Interaction/Evolution

This book sheds light on previously undiscovered plant viruses, bringing together information on the detection and tracking, host interaction, evolution, and management. Each section comprehensively covers plant viruses, focusing on their diversity and pathogenic expressions. The first section covers the various hidden sources of plant viruses such as from wild plants, weeds, and tobacco as well as other undetermined plant virus sources. The second section covers the implications of mixed infection on disease pathogenicity and epidemiology, provides an understanding of the virus and host relationship, and presents an overview of plant viruses from old to new.

Providing new and important knowledge on major plant viruses and discussing their nature as well as impact on plants, this volume will be of special interest to research scholars, professors, and scientists working on plant and environmental viruses.

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ABOUT THE AUTHORS / EDITORS:

Editors: Alireza Golnaraghi, PhD
Assistant Professor, Department of Plant Protection, Science and Research Branch, Islamic Azad University

Alireza Golnaraghi, PhD, is currently working as Assistant Professor in the Department of Plant Protection, Science and Research Branch, Islamic Azad University. He is also a researcher in the Department of Earth, Ocean and Atmosphere Sciences, University of British Columbia, Vancouver, British Columbia, Canada, and in the Department of Biodiversity, BoomZista Institute, Vancouver, British Columbia, Canada. His PhD focused on biological, serological, and molecular characteristics of a Tospovirus isolated from potato and its detection through modern techniques, i.e., antibody microarrays. Dr. Golnaraghi has made significant efforts and contributions on viruses and endophytic microbes, especially in wild plants in natural ecosystems. He has published over 50 national/international papers, authored several books, contributed to writing two book chapters, and presented more than 65 papers in national and international conferences. In 2017, he joined a famous environmental microbiology/virology group at the Department of Earth, Ocean and Atmosphere Sciences (University of British Columbia, Canada) and, since then, has been working on algal viruses together with a well-known scientist (Prof. Curtis Suttle). With the help of international researchers and talented students, he established a not-for-profit corporation in Canada in 2020 (BoomZista Institute; boomzista.org) that focuses on various issues of the planet in an effort to disseminate nature-based sciences to people all over the world, especially kids and youth.

Rajarshi Kumar Gaur, PhD
Professor, Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh, India

Rajarshi Kumar Gaur, PhD, is currently working as Professor in the Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, Uttar Pradesh, India. He is handling many national and international grants and collaborative projects on plant viruses and disease management. He received a MASHAV fellowship of the Israeli government for his postdoctoral studies and joined The Volcani Centre, Israel, and Ben-Gurion University, Negev, Israel. In 2007, he received a visiting scientist fellowship from the Swedish Institute to work at Umea University, Sweden. He also received a postdoctoral fellowship from the International Centre for Genetic Engineering and Biotechnology, Italy, in 2008. He has made significant contributions on sugarcane viruses and published 130 national and international papers, authored 20 edited books, and presented about 50 papers at national and international conferences. He is a fellow of many associations, including Linnean Society, Royal Society of Biology, Society of Plant Research, Society of Applied Biology, and International Society of Biotechnology. He has received many awards, including the Prof. B.M. Johri Memorial Award; Society of Plant Research (SPR); Excellent Teaching Award from Astha Foundation, Meerut; UGC-Research Teacher Award, Young Scientist Award-2012 in Biotechnology from the Society of Plant Research (SPR), Meerut; and a Scientific & Applied Research Centre Gold Medal Award-2011 for outstanding contribution in the field of biotechnology. He has visited several laboratories of USA, Canada, New Zealand, UK, Thailand, Sweden, and Italy. His PhD was on molecular characterization of sugarcane viruses, viz., mosaic, streak mosaic and yellow luteovirus.

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