



Book | © 2019

Geminiviruses


Impact, Challenges and Approaches

[Home](#) > [Book](#)**Editors:** [R. Vinoth Kumar](#)

First comprehensive book on geminivirus biology
 Enhances the reader's knowledge on evolution and diversity of this plant pathogenic virus family
 Provides approaches for pest management strategies

4752 Accesses | 16 Citations

Sections

[Table of contents](#)[About this book](#)[Keywords](#)[Editors and Affiliations](#)[About the editor](#)[Bibliographic Information](#)Access via your institution 

▼ eBook EUR 85.59
 Price includes VAT (India)

- ISBN: 978-3-030-18248-9
- Instant EPUB and PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

Buy eBook

► Softcover Book EUR 99.99

► Hardcover Book EUR 99.99

[Learn about institutional subscriptions](#)[Back to top](#) ↑

Bibliographic Information

Book Title Geminiviruses	Book Subtitle Impact, Challenges and Approaches	Editors R. Vinoth Kumar
DOI https://doi.org/10.1007/978-3-030-18248-9	Publisher Springer Cham	eBook Packages Biomedical and Life Sciences Biomedical and Life Sciences (R)
Copyright Information Springer Nature Switzerland AG 2019	Hardcover ISBN 978-3-030-18247-2 Published: 24 July 2019	Softcover ISBN 978-3-030-18250-2 Published: 14 August 2020
eBook ISBN 978-3-030-18248-9 Published: 12 July 2019	Edition Number 1	Number of Pages Xi, 235
Number of Illustrations 22 illustrations in colour	Topics Virology , Plant Pathology , Microbial Genetics	

[Back to top](#) ↑

Over 10 million scientific documents at your fingertips

[Academic Edition](#) [Corporate Edition](#)

Geminiviruses pp 85–102 | [Cite as](#)[Home](#) > [Geminiviruses](#) > [Chapter](#)


Mastreviruses in the African World: Harboured Both Monocot and Dicot Species

Avinash Marwal, Bakesh Kumar Verma, Megha Mishra, Rajesh Kumar & R. K. Gaur

Chapter | [First Online: 13 July 2019](#)353 Accesses | [3 Citations](#)

Abstract

Mastreviruses are the main causal viral agent of a variety of plant diseases in African continent posing a serious threat to economically important plant species, residing/harboured chiefly in the uncultivated ones. *Mastreviruses* are known to have numerous diverse carrier vectors infecting either monocotyledons or dicotyledons plants. More than 1950 *Mastreviruses* sequences are publically available in nucleotide database of NCBI, majority (~850) of them are reported from Africa alone. All the known *Mastreviruses* encompass a monopartite genomic nature (ranges from 2.5 to 2.7 kb) encoding four genes. Reports and evidences suggest a strong intra- or inter-specific recombination among the identified *Mastreviruses*, but the extent to which it creates diversity is still a challenging task to understand and get a clear insight. Such diversity is also supported by gene acquisition and mutations (especially point mutations

Access via your institution Chapter EUR 29.95
Price includes VAT (India)

- DOI: 10.1007/978-3-030-18248-9_5
- Chapter length: 18 pages
- Instant PDF download
- Readable on all devices
- Own it forever
- Exclusive offer for individuals only
- Tax calculation will be finalised during checkout

[Buy Chapter](#)

> eBook	EUR 85.59
> Softcover Book	EUR 99.99
> Hardcover Book	EUR 99.99

[Learn about institutional subscriptions](#)

Sections

[Figures](#)[References](#)