

# Begomoviruses: what is the secret(s) of their success?



*Begomoviruses, Bemisia tabaci, emergent diseases, plant viruses, recombination*



Spain

## Begomovirus

Begomoviruses constitute an extremely successful group of emerging plant viruses transmitted by whiteflies of the *Bemisia tabaci* complex.

Hosts include important vegetable, root, and fiber crops grown in the tropics and subtropics.



## Success Factors



- 1 Predisposition to recombine their genomes
- 2 Interaction with DNA satellites recruited throughout their evolution
- 3 Presence of wild plants as a virus reservoir and a source of speciation
- 4 Me polyphagia and continuous movement of the insect vectors to temperate regions.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101000570

These features as well as some controversial issues (replication in the insect vector, putative seed transmission, transmission by insects other than *B. tabaci*, and expansion of the host range to monocotyledonous plants) will be analyzed in this review.

## »» READ MORE

Begomoviruses: what is the secret(s) of their success?: Trends in Plant Science (cell.com)  
Elvira Fiallo-Olivé, Jesús Navas-Castillo

NKB: Mariana B. Lorbach