ViroiDoc

Advanced Research on Viroid Pathogenesis and Control for Agricultural Sustainability

Why?

Viroids, the smallest infectious pathogens, cause millions of euros in crop losses every year and affect crop yields and quality worldwide. Climate change and international trade allow viroids to invade new geographical areas and hosts, posing a threat to crops and global food security.

What?

Knowledge hub
- Molecular mechanisms of viroid pathogenesis
- Host interactions
- Viroid live imaging

Risk assessment
- Global warming on viroid infections
- Characterize new viroids and viroid-like RNAs

Viroid diagnostics
- CRISPR/Cas- and electrosensor-based devices
- Early detection
- Surveillance on the field

Viroid interventions
- Breeding targets
- Inducers of plant immunity
- RNA-based biopesticides
- Antiviroidal agents

Innovative training program enhancing student career paths
- Individual research projects (IRP)
- Local doctoral schools
- Specific ViroiDoc network-wide training in scientific, technical, digital, entrepreneurial and transferable skills

Collaborative RNA-oriented ecosystem
- Shared scientific protocols and methods
- Open access to early data and results
- Regular staff exchanges
- RNA experts working in agriculture, biotech or biomedicine

Public awareness
- Open Door Days
- European Researcher's Night
- Researchers at Schools
- Citizen Science for Co-creation of Viroid surveillance platform

www.viroidoc.eu

Funded by the European Union

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Who?

MSCA Doctoral Network

22 Partners

Where?

11 Countries

Slovenia, Italy, Spain, France, Greece, Germany, Switzerland, Czechia, Poland, the United States, and Argentina

When?

4 years 2025–2028

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