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CONTACT

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Leibniz Association

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DIN EN ISO 9001:2015

Leibniz Institute
DSMZ-German Collection
of Microorganisms
and Cell Cultures GmbH

home of more than 84,000 biological resources

PLANT VIRUSES
Collection and Services

PLANT VIRUS DEPARTMENT

Plant Viruses can cause serious diseases in agricultural and horticultural crops worldwide and threaten the supply of food and the livelihood of many people. Intensive virus research on viral pathogens is conducted, to monitor “emerging” viral diseases of world crops, to support the production of healthy plants and seeds and, to safeguard the international exchange of plant germplasm. The Plant Virus Department provides diagnostic products and services to prevent virus diseases and to guide disease intervention and virus control.

PLANT VIRUSES AND ANTISERA COLLECTION

The collection of plant viruses is at the core of all virus works. It comprises the most diverse list of plant viruses infecting crops from all over the world. Virus accessions in the collection are authentic and pure and are made available to serve as reference isolates for diagnostic purposes and resistance screening.

Antisera are output of virus research at the department. The ELISA tests developed from virus specific antisera are diagnostic reagents and provided to the worldwide community of scientists and diagnosticians for virus detection and routine indexing.

SERVICES

A range of scientific services reflecting the profound and broad experiences in plant virology and the excellent and innovative research infrastructure of the department are offered on a contract basis.

- **NextGeneration virus discovery**
- **Antisera production and ELISA test development**
- **Biological assays, plant infections and resistance screening**
- **Molecular assays, transit quarantine and virus indexing**
- **Risk assessment, virus disease management and training**

ACCREDITATION

Confidence in the quality of reference materials is key for sustained success. The Plant Virus Department is accredited pursuant ISO 17034 as a reference material producer. It has thus achieved the highest possible level of quality management.

DAkkS
Deutsche
Akkreditierungsstelle
D-RM-18324-01-00

RESEARCH

Understanding plant virus diseases is the focus of all research activities. Scientific exchange and collaborative projects with international partners across many disciplines is intensive.

- **Virus diversity, virus biology and vector transmission**
- **Virus identification and innovative methods in virus diagnosis**
- **Viral pathogenicity and host plant resistance**

VIRUS REPOSITORY

The deposit of viruses in public collections, while not mandatory, is a common interest of the research community to ensure an independent and permanent availability of isolates. Once received at DSMZ, plant virus materials are subject to comprehensive authentication and characterization processes before being propagated, conserved and subsequently distributed as reference isolate. The deposit of material into the public collection at DSMZ is free of charge and traceability to the depositor is guaranteed!