



## Overview Services

Tissue culture | Breeding Support | Analytical Services

### Tissue Culture

- 500+ clients, 350 genera, 10.000 varieties
- Initiation / meristem culture
- Virus Elimination
- Naktuinbouw Elite<sup>®</sup> Certification
- Stock maintenance
- Protocol development
- Large scale propagation (35 mln plants/yr)
- Hardening & young plant production

### Cell Biology

- Dihaploids
  - Production for various crops
  - Development of new protocols
- Protoplast/somatic fusion
- Transformation
  - Agrobacterium
  - Protoplasts

### Breeding support

- Gene bank storage in tissue culture
- Interspecific crossing
- Pollen viability
- Embryo rescue
- Mutation induction
- Chromosome doubling / polyploidization
- Chromosome counting
- DNA content determination

### Analytical services

#### Genomics

- Genotyping
  - Variety identification by SNP markers
  - High-throughput marker assisted selection
- Customized research projects
  - SNP marker development
  - Bio assays for phenotyping

#### Plant Health & Diagnostics

- Pathogen Detection (PCR)
  - >110 routine tests available
- Flowcytometry
  - Ploidy determination
  - Absolute DNA content in plant material
- Bio Assays for pathogenicity
  - Naktuinbouw authorised (ASLN)

#### Plant & Seed Quality

- Seed purity tests
  - High- throughput (aneu)ploidy determination
  - Routine tests available for Curbubits / Brassica
- True to type analysis (PCR markers)

Iribov: Tissue culture | Breeding Support | Analytical Services

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