

Location Voorst total 11 hectare





Core activities



- 1. Breeding and selection of organic varieties
- 2. Production of organic seeds
- 3. Developing organic seeds treatments
- 4. Marketing of organic varieties
- 5. Registration of varieties in annexes

Breeding for resistance



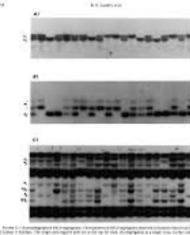
- Pro-active
- Ad hoc
- Long term program

Bremia in lettuce Downey mildew tomato Aphid in pepper



Bremia resistance in lettuce

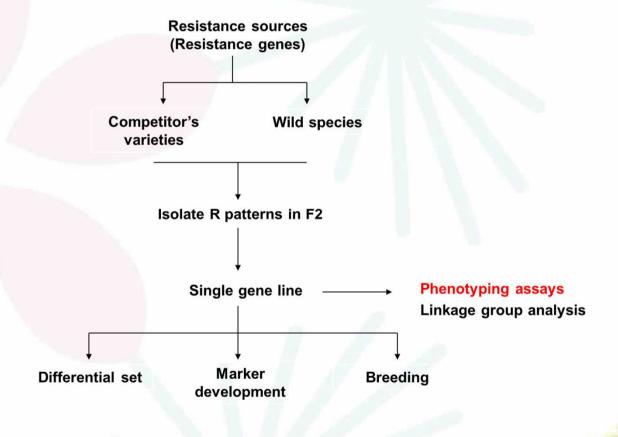
- New resistance genes are crossed in pro-active
- Working with single R gen lines
- Bremia is collected constantly
- Test the (new) lettuce material with new strains
- Create several new varieties with different genes
- A new Bremia strain is nominated by the International Bremia Evaluation Board (IBEB) if it appears for a longer time on several locations on several resistant varieties
- The genes that are out in the field the most has the highest changes to be broken





Lettuce Bremia resistance breeding scheme





Wild material









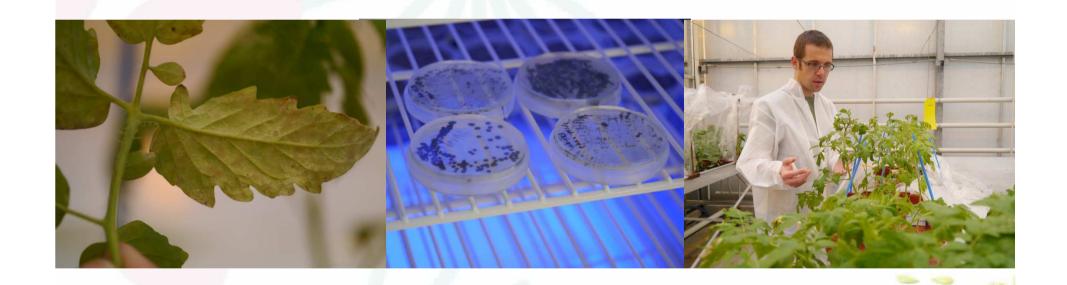
L. serriola

L. virosa

L. saligna

Cladosporium-resistance in tomato





Downey mildew resistance in tomato



2011

Downey mildew in HR: Ff 1-5 resistant varieties

Damage

20-30 % loss of yield.

Leafs and green parts truss infected.

Plant with only a few green leaves

First leave samples send to Enza

- 1. New strain isolated
- 2. Varieties tested
- 3 Test a set of resistance gens



Downey mildew resistance in tomato



2011-2012

Several gens give resistance.

Resistance monogen and dominant

Location gen detected and marker developed.

Parentlines tested with marker

Already some parentlines with resistance.

The varieties Annamay and Roterno have resistance.

2012 First crosses are made

2013 First screening material

2014 Second screening material on several locations

2015 First large scale grower trial

2016 Commercial introduction



Aphid resistance pepper





Aphid resistance peper

Test several wild Capsicum lines on resistance

WUR and several seed companies

Start a breeding program with this lines

Timeline 10-12 year



Other diseases



Cucumber Mildew, CGMMV

Pepper Mildew and TSWV

Tomato
Powdery mildew, Botrytis, Phytopthora, TYLCV

Lettuce Fusarium



