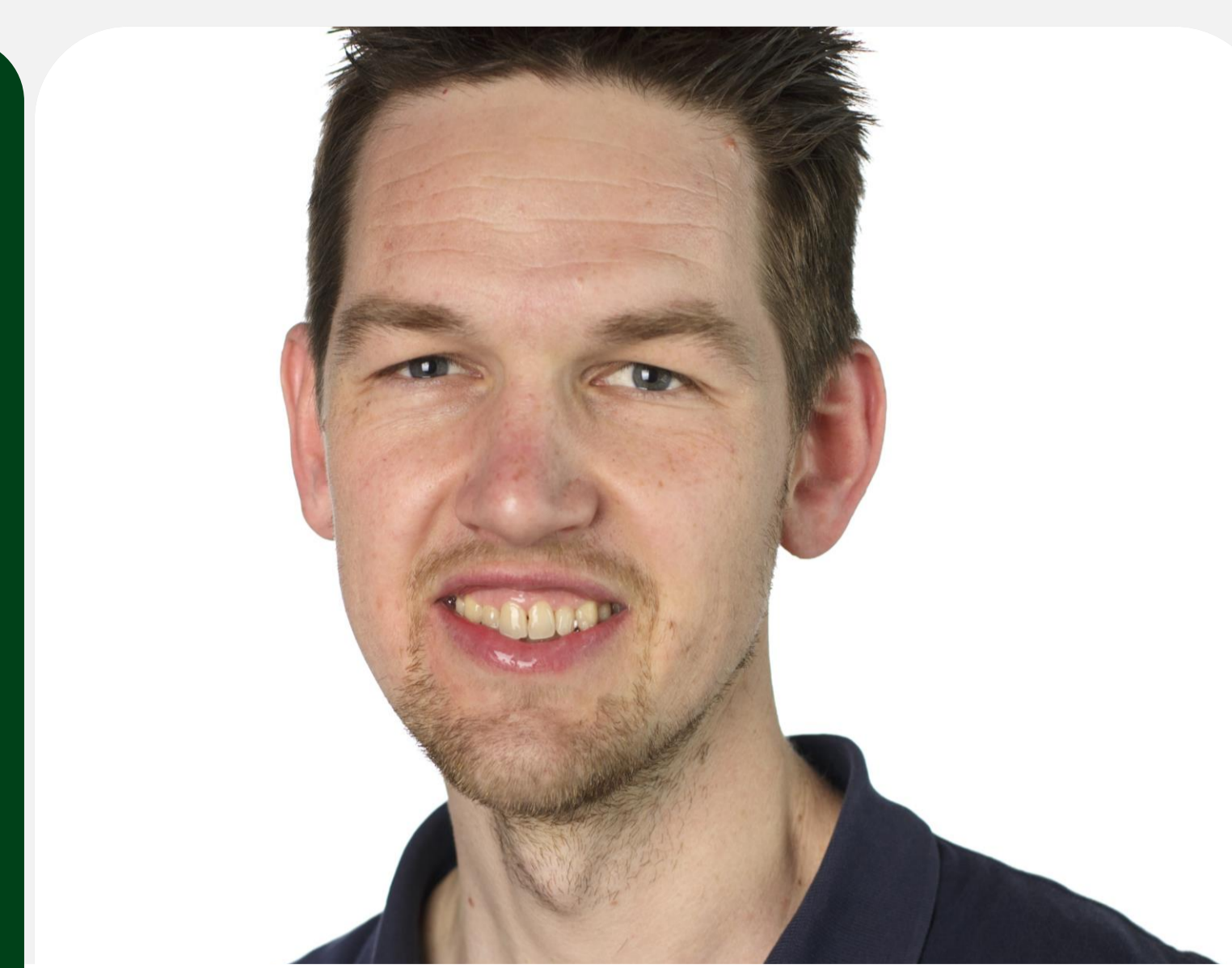


Plant breeding as ingredient of Integrated Crop Management

Joris Glas*, Zeger van Herwijnen & Adriaan Verhage

Phytopathology Department, Rijk Zwaan B.V., De Lier, The Netherlands



Email: j.glas@rijzkwaan.nl

Introduction

Diseases and pests cause major yield losses worldwide. Strong and resilient varieties are an important component of pest management. At Rijk Zwaan, we breed for vegetable plants with a natural strong resistance or that allow for improved pest management. The incorporation of these traits enables growers to reduce their reliance on crop protection agents.



Nasonovia ribisnigri resistance in lettuce



Improved pest management: Clean leaf aubergine varieties exhibit reduced attraction to whitefly and thrips larvae



Blue Leaf in cucumber: a trait which helps growers to keep their crops healthier



Cabbage strong against thrips

The results of plant resistance breeding translated to practical solutions:

- Higher yield, using fewer inputs
- Better integrated plant management (less use of chemical crop protection agents)
- Minimized food loss during production