

Focus on Stolbur and Zebra Chip

SIMILAR SYMPTOMS



<u>Note</u>: those symptoms could be caused by other diseases (Black Scurf, Potato Leaf Roll Virus...) or by abiotic factors such as nutrient deficiences or stresses related to environmental conditions

TWO DIFFERENT DISEASES

Stolbur

- The causal agent is the phytoplasma *Candidatus*Phytoplasma solani
- Wide range of plant hosts: solanaceaous species, grapevine, lavender, sugar beet, maize... as well as many wild species such as bindweed and stinging nettle
- Ca. Phytoplasma solani is transmitted to its host by leafhopper insect vectors (Cixiidae)
- *Hyalesthes obsoletus* is the main vector of *Ca*. Phytoplasma solani in Europe





• Ca. Phytoplasma solani is present in the EU and is classified as RNQP (EU 2019/2072)

Zebra Chip

- The causal agent is the phloem-limited bacterium *Candidatus*Liberibacter solanacearum
- Haplotypes A, B and F infect solanaceous species while haplotypes C, D, E and U are mainly associated with apiaceous species
- The bacterium is transmitted to its host by psyllids insect vectors
- Bactericera cockerelli is the vector of solanaceous haplotypes and is classified as a quarantine pest (EU 2019/2072)





• Solanaceous haplotypes and their vector *B. cockerelli* have never been reported in the EU

CONTROL

- = control is based on preventive measures to avoid the introduction and/or the spread of these pathogens and their vectors
- ✓ Periodic field inspections and sampling of plants showing doubtful symptoms for laboratory testing and accurate diagnosis
- ✓ Management of potato volunteers and surrounding weeds that could host both plant pathogens and their vectors (for wintering and the insects life cycle)

