

International Union for the Protection of New Varieties of Plants

Technical Working Party for Ornamental Plants and Forest Trees TWO/54/4

Fifty-Fourth Session Original: English Hanover, Germany, June 13 to 17, 2022 Date: May 25, 2022

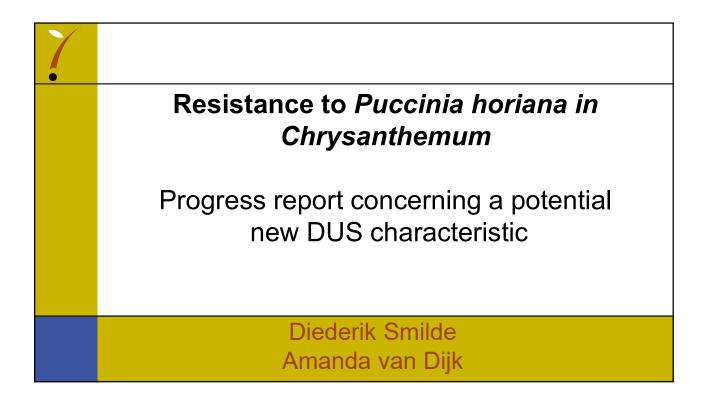
### **DISEASE RESISTANCE IN ORNAMENTAL CROPS**

Document prepared by an expert from the Netherlands

Disclaimer: this document does not represent UPOV policies or guidance

The annex to this document contains a copy of a presentation "Resistance to *Puccinia horiana* in *Chrysanthemum* - Progress report concerning a potential new DUS characteristic", to be made by an expert from the Netherlands, at the fifty-fourth session of the TWO.

[Annex follows]



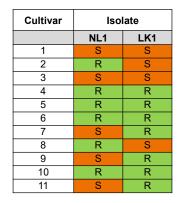
Ringtest in 2021
Aims:
• to launch a differential set
<ul><li>to validate two isolates on the set</li><li>NL1</li><li>LK1</li></ul>
to agree on a protocol with sufficient reproducibility

## Observation scale, 21 days after inoculation

Observation	Interpretation	Code
No pustules	Resistant	0
1-10 pustules per leaf	Resistant	1
>10 pustules per leaf	Susceptible	2

• This scale was published by De Backer (ILVO, Belgium) in 2011

### Ringtest in five labs







All five labs had the same results, including one lab with no previous experience with this test

# Present topics under study • to consider the protocol robust and validated • to denominate two isolates • NL1 and LK1 • to reveal the names of the differentials • subject to company approval • to reduce the number of differentials -for example, one differential per pattern: 1, 2, 7, 11

## Naktuinbouw will continue to work together with companies to fulfill the UPOV criteria for adding a new characteristic to describe resistance to Puccinia horiana in Chrysanthemum



[End of Annex and of document]