



HAL 3.1 Vegetable IPM Pathology Program

VG 07127 Integrated Management of Foliar Diseases in Vegetable Crops (DEEDI)

Alternative options for white blister rust control (Joanna Petkowski, DPI Victoria)

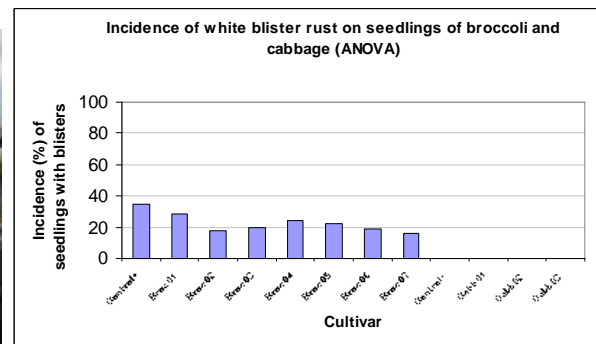


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Brassica oleracea cultivar testing

- 7 broccoli cultivars
- 3 cabbage cultivars (susceptible to European WB)
- controls (+ Greenbelt, - Tyson)
- No resistance detected in broccoli cultivars
- Cabbage cultivars resistant



Testing of alternative options for white blister rust on *Brassica rapa* vegetables

Glasshouse experiment:

- 2 *B. rapa* cvs 'Waltz' and 'Seven Gates'

- 4 alternative chemicals of different action mode:

1. surfactant – non-ionic
2. polymer – antitranspirant
3. film-forming bacterium
4. SAR inducer

- unsprayed control & standard industry practice

- seedlings inoculated with *B. rapa* specific *A. candida* from Chinese cabbage



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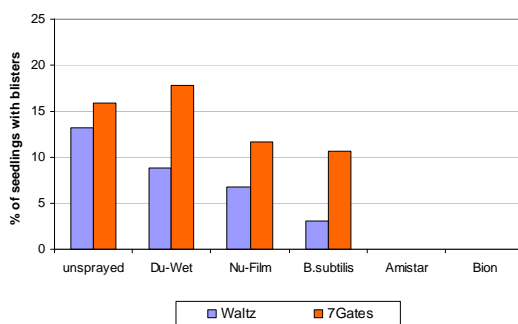
Results

- disease levels did not differ significantly from control (Du-Wet, Nu-Film, *B. subtilis*)

- Bion – effective as Amistar

- severe phytotoxicity on seedlings of both cvs

Incidence of white blister rust on seedlings of *B. rapa* cvs Waltz and Seven Gates in a glasshouse experiment



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