

# Fungicide resistance strategies and New fungicide modes of action

Canola Pathology Workshop, Melbourne 2020

 **Miravis™ Star**

**syngenta.**

# Resistance management strategies – CropLife Australia and FRMRG

## Objective

- Extend life of active ingredients by limiting the development of fungicide resistance
- Limit crop failure to growers in the case of fungicide resistance

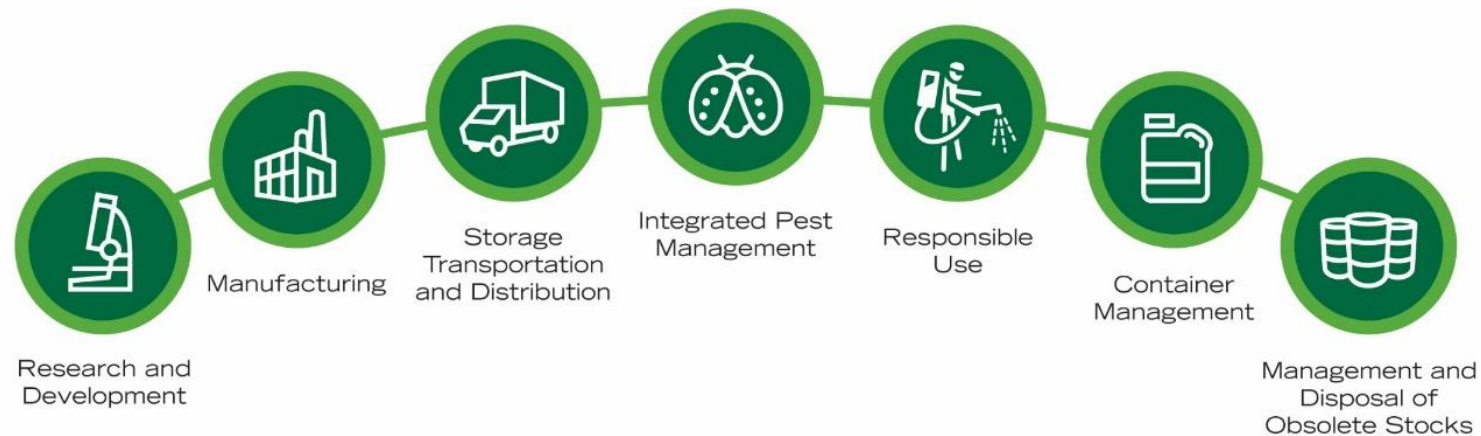
## Output

- Canola blackleg strategy
- Canola sclerotinia strategy

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# Stewardship First™



Accepting responsibility to safeguard the industry through the responsible management of a product from its inception to ultimate use



# Resistance Management Strategies

INSECTICIDES | FUNGICIDES | HERBICIDES





Plant Science  
in Australia



Ensuring  
Health & Safety



Delivering  
Food, Feed & Fibre



Supporting  
Farmers



Protecting  
the Environment



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# Strategy Search

Keyword Search



FIND BY CROP

Crop

FIND BY PEST

Pest

FIND BY AGENT

Fungicide

Herbicide

Insecticide

# Strategy Search

Keyword Search



FIND BY CROP

Crop

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Pest

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Fungicide

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Insecticide

36 results found for:

Agent: Fungicide X

Almonds – Blossom Blight, Brown Rot

Almonds – Rust

Apples, Pears – Apple and Pear Scab

Banana – Yellow sigatoka

Barley – Powdery Mildew

Barley – Scald and Net blotch

Broccoli/Cauliflower – Downy Mildew

## Related Fungicide Documents

Fact sheet – Fungicide Resistance

Fungicide Resistance Management Strategies

Fungicide Activity Group Table

Fungicide Further Information

- Fungicide FRAC group number mandatory
- All labels have resistance management strategy statements

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



  
The Syngenta logo consists of the word "syngenta" in a lowercase, sans-serif font, with a small leaf icon above the letter 'a'.

ACTIVE CONSTITUENT: 200 g/L PYDIFLUMETOFEN

GROUP **7** FUNGICIDE

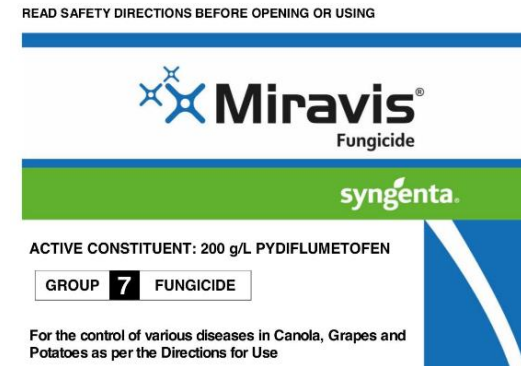
Controls seedling Blackleg in Canola



# Blackleg strategy

## Simple and straight forward

- If you use a Group 7 seed treatment, you should not use a spray containing a group 7 fungicide spray at 4-6 leaf stage
- Group 7's are also called carboxamides or succinate dehydrogenase inhibitors (SDHIs)



# Canola fungicide modes of action

- 1. Triazoles -demethylation inhibitors (DMIs) – Jockey, Prosaro  
**Medium risk**
- 2. Dicarboximide – Sumisclex, Rovral  
**High risk**
- 3. Carboxamides – succinate dehydrogenase inhibitors (SDHIs): Saltro, Miravis, Aviator Xpro  
**Medium-high risk**
- 4. Strobilurins – quinone outside inhibitors (QoIs): Veritas (Sclerotinia only)  
**High risk**

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### **New mixture, new foliar active ingredient, new mode of action**

- Contains pydiflumetofen and fludioxonil
- Proven performance of Miravis (pydiflumetofen) with strong mixture partner
- Fludioxonil low resistance risk member of the phenylpyrroles class (group 12)
- Crop safe and rainfast



## Summary

### Disease control in canola

- Broad spectrum disease control – Blackleg, Sclerotinia, White leaf spot, Alternaria and Powdery mildew. Under high disease pressure outperforms Aviator Xpro, Prosaro and Miravis
- Wide window of application
- Miravis Star provides a new mode of action for foliar disease control in canola

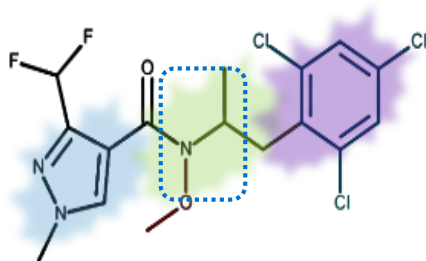
### Registration in canola


- Large area trials will be conducted under permit this season
- Registration date expected June 2021


Please contact [Angus.Rutherford@syngenta.com](mailto:Angus.Rutherford@syngenta.com) if you are interested in obtaining a sample for testing


# Miravis<sup>®</sup> fungicide: Unique combination of features for unprecedented performance on the farm

 **Miravis<sup>®</sup>**



 **Power:** Delivers unique potency and intrinsic activity that form the foundation of consistent performance in the field

 **Spectrum:** Broadens the reach of the SDHI mode of action to include the most difficult-to-control diseases and deliver unique crop enhancement benefits

 **Stamina:** Gets to work fast, adapts to the growing crop and withstands the unexpected to remain effective longer

**Miravis enables more consistent, complete and lasting disease protection and plant health benefits across more crops, opening up new possibilities for growers**

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*Bringing plant potential to life®*

Performance evaluations are based on internal trials, field observations and/or public information. Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil and weather conditions. Always read and follow label directions.

Always read and follow label directions. Miravis® Ace is a foliar application of Miravis fungicide and A6097 fungicide. Registration of Miravis Ace as a pre-mix is anticipated in January 2020. Elatus® is a co-pack of Elatus A fungicide and Elatus B fungicide. ADEPIDYN®, Agral®, AMISTAR®, Bringing plant potential to life®, Elatus®, Mefenoxam™, Miravis®, Orondis®, Quilt®, Solatenol®, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of a Syngenta Group Company. Other trademarks are property of their respective owners. © 2019 Syngenta.