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How Can It Be  
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# Fungicide Resistance In Crop Pathogens How Can It Be Managed

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## **Fungicide Resistance In Crop Pathogens**

Luna Experience fungicide uses the power of two fungicide modes of action to control key fungal pathogens in bananas and grapes. Luna

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Experience is a combination of two active ingredients; Fluopyram and tebuconazole.

Fluopyram belongs to a novel Succinate Dehydrogenase Inhibitor (SDHI) chemical class discovered by Bayer.

## **Luna Experience Fungicide | Bayer Crop Science Australia**

A systemic fungicide

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for the control of damping-off of ornamental plants caused by *Pythium* spp. Bayer Australia; ... Find crop solutions. By product. ... stems and leaves of young plants. This prevents the entry of fungal pathogens.

**Previcur® Fungicide  
Label and SDS |  
Bayer Crop Science**

Fungicide resistance is a stable, heritable trait that results in a

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reduction in sensitivity to a fungicide by an individual fungus. This ability is obtained through evolutionary processes. Fungicides with single-site mode of action are at relatively high risk for resistance development compared to those with multi-site mode of action.

## **What Are Fungicides**

The multi-site

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## Resistance In

fungicide, Daconil, is effective with little risk of pathogen resistance but must be used preventively, before disease develops, for best results. The

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Fungicide Resistance Action Committee (FRAC) has assigned alphanumeric codes to fungicides based upon the modes of action of the active ingredients.

## **Recommendations for Botrytis**

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**fungicides for 2020**

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Crop rotation of 3 years and sanitation

(removal of crop debris) will reduce the amount of inoculum.

Do not use overhead irrigation. Repeated

fungicide applications with chlorothalonil

(very good) or copper

fungicide, or mancozeb

(good) will keep the

disease in check. See

Table 1 for examples of

fungicide products for

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home garden use. Leaf  
Mold

## **Tomato Diseases & Disorders | Home & Garden Information Center**

Fungicide resistance. Single-step pesticide resistance arises suddenly in the field. A single gene or physiological function changes so that an individual becomes highly resistant to the pesticide. With just one

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or two sprays of the pesticide, the population shifts from mostly sensitive to mostly resistant individuals.

## **How Pesticide Resistance Develops - Grapes**

Crop rotation may reduce inoculum buildup in the soil, but this practice is unreliable because the pathogens have a wide host range and

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chlamydo spores can survive for many years.

Use approved Fusarium-resistant varieties to manage this disease.

See publication PP1247 for more information on Fusarium yellows of sugarbeets.

## **2021 Sugarbeet Production Guide — Publications**

Pesticides can be used to control a variety of pests, such as insects, weeds, rodents,

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bacteria, fungi, etc.

Over time many pesticides have gradually lost effectiveness because pests develop resistance. Learn what EPA is doing to address resistance issues.

## **Slowing and Combating Pest Resistance to Pesticides | US EPA**

In general, soilborne pathogens, such as species of *Fusarium*

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and Pythium, that infect through mycelial contact are more susceptible to competition from other soil- and plant-associated microbes than those pathogens that germinate directly on plant surfaces and infect through appressoria and infection pegs.

## **Biological Control of Plant Pathogens**

Fungicide Several

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### Resistance In

fungicides in preliminary fungicide trials may reduce tar spot. In addition, several 2(ee) labels that can manage tar spot will be available starting in 2019.

However, there is little information on optimum application timing or if a fungicide application will be effective and economical. Figure 5.

## **DISEASES OF CORN**

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**Tar Spot - Purdue**

**Extension**

Okra (*Abelmoschus*  
*esculentus*) is a

member of the mallow  
family and is

considered a heat-

tolerant vegetable crop

that will flower and

fruit during high

summer temperatures

until first frost.

Originating in Africa, it

is a traditional dish in

the southern U.S. and

produced for both fresh

and processing



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**Okra Production |  
Oklahoma State  
University**

Two genes, CsLRR-  
RPK2 (CsGy5G015660)  
and CsaMLO8  
(Csa5G623470), have  
been considered as  
powdery mildew (PM)  
resistance genes in  
cucumbers. In this  
study, we evaluated  
the involvement of the  
alleles of these two

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genes in PM resistance in 100 commercial Korean cucumber inbred lines. To achieve this, we developed cleaved amplified polymorphic sequences (CAPS) and InDel markers from CsLRR-RPK2 and ...

**Agronomy | Free Full-Text | Marker-Assisted Evaluation of ...**

The fungicide must be applied to the tree at

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bud break in early spring and repeated weekly or biweekly until the daily average temperatures are consistently above 60 degrees F. Roses may also be treated with fungicides containing copper, sulfur, or chlorothalonil. Follow the manufacturer's instructions for frequency and dosage.

**How to Identify,  
Treat, and Prevent**

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### Resistance In

#### **Anthracnose**

Management Always  
plant disease-free  
seeds and transplants;  
seeds can be freed  
from infection by  
treating with hot water  
at 52°C (125.6°F) for  
30 minutes; if disease  
is known to present,  
the field should be  
rotated with non-  
susceptible crops for a  
period of 3 years;  
plowing crop residue  
deeply into the soil r  
removing crop debris

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