

## **OMAFRA Lunch and Learn Series on Pesticide Resistance**

Three horticulture specialists with Ontario's ag ministry will be offering a lunch and learn series on pesticide resistance from January 25-28, 2021. They are entomologist Hannah Fraser, pathologist Katie Goldenhar and weed management specialist Kristen Obeid.

This series on pesticide resistance management is to give field growers with fruit, vegetable and specialty crops a holistic view on pesticide resistance. The experts will cover basics of pesticide resistance then dive deeper into insecticide, herbicide and fungicide resistance and management. Sessions will start each day at 12PM with a 30-minute presentation followed by a question and answer period.

### **Resistance 101**

Monday January 25th, 12-1 pm

- Impact of resistance
- How resistance occurs
- Resistance drivers
- Mechanisms of resistance
- Challenges to management
- Foundations of resistance management
- Resources for success

### **Insecticide Resistance**

Tuesday January 26th, 12-1 pm

- 16,000 cases and counting
- Mechanisms of pesticide resistance in insects and mites
- Risk factors beyond your control
- How agronomic practices can drive selection pressure
- Spraying by the numbers: IRAC MOA groups and your IPM program

### **Herbicide Resistance**

Wednesday January 27th, 12-1 pm

- Mechanisms of herbicide resistance
- Herbicide risk (WSSA groups, low vs high risk products)
- Weed risk – Current resistant weed situation: Focus on *Amaranthus* spp.
- Agronomic Risk (practices that increase herbicide resistance risk)
- Herbicide resistance management

### **Fungicide Resistance**

Thursday January 28th, 12-1 pm

- Fungicide risk (FRAC groups, multi-site vs single-site, low vs high risk products)
- Diseases at risk (diseases at high risk, factors that increase resistance)
- Agronomic practices that can decrease resistance risk
- Fungicide resistance management (BMPs when using fungicides)

**Register for the Zoom lunch and learn here: <https://bit.ly/3mXvQfe>**