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# Is organic production the only way to produce safe food at home? IPM is an alternative

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*seek* LIGHT

# IPM works in urban gardens

**Integrated Pest Management (IPM)** is the selected use of pest suppression methods

Consider:

- Production
- Your human interests
- Environmental impacts
- The long & short term





# Keys to successful IPM



- Grow healthy plants
- Knowledge of pests & their impacts
- Understand the direct & indirect effects of control methods
- Avoid & prevent pest problems
- Carefully select control measures

Nutrient stress?

Insects?

Disease?

Herbicide damage?

Frost?

**Diagnosis**

Mites?

Wind damage?

Salinity?

Birds?

Weed competition?

Water stress?





# Natural enemies – Parasitic Insects



# Natural enemies - Predators



# Natural enemies - Pathogens



[www.goodbugs.org.au](http://www.goodbugs.org.au)



# Encourage natural controls



Natural enemies thrive when they have access to

- **S**helter
- **N**ectar
- **A**lternative prey
- **P**ollen

**SNAP**

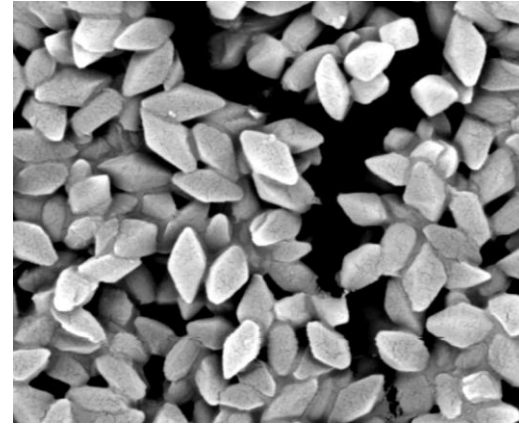


# Avoid harsh chemicals whenever possible

Soft controls include

- *Bt* (*Bacillus thuringiensis*) for caterpillars (DIPEL)
- Methoxyfenozide (Intrepid)
- Water

*Most pesticides have mixed effects*





# Use pesticides wisely

- Spot spray
- Use soft chemicals or those with a short residual life (eg, Pyrethrum)
- Avoid products that affect beneficial species



**Read & Follow the Label**

Koppert side effects database:

[www.koppert.com/side-effects/](http://www.koppert.com/side-effects/)

Biobest side effects manual:

[www.biobestgroup.com/en/side-effect-manual](http://www.biobestgroup.com/en/side-effect-manual)

# Integrated Pest Management IPM

- Grow healthy plants
- Get to know pests
- Choose pest suppression methods carefully
- Use pesticides sparingly

