SIGNS AND SYMPTOMS OF PHYTOPATHOGENIC FUNGUS AND BACTERIA
Leaf Spot

**Fungal**
- Circular, concentric rings
- Not limited by veins

**Bacterial**
- Angular spots
- Limited by veins
<table>
<thead>
<tr>
<th>Symptom or Sign</th>
<th>Fungal Leaf Spots</th>
<th>Bacterial Leaf Spots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water-soaking</td>
<td>Uncommon</td>
<td>Common</td>
</tr>
<tr>
<td>Odor</td>
<td>Uncommon</td>
<td>Common</td>
</tr>
<tr>
<td>Color Change</td>
<td>Common</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Texture</td>
<td>Dry/Papery</td>
<td>Moist/Slimy</td>
</tr>
<tr>
<td>Pathogen Structures</td>
<td>Common</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Disintegration</td>
<td>Uncommon</td>
<td>Common</td>
</tr>
</tbody>
</table>
Signs and Symptoms of Fungi
Powdery Mildew

growth form

*Erysiphe sp.*
Gray Mold on red raspberry spores
*Botrytis cinerea*
Peach Leaf curl
*Taphrina deformans*
Telial galls (spore horns)
Cedar-apple Rust
Gymnosporangium sp.
Fruiting Bodies
Melanized pseudothecia
*Leptosphaeria sp.*
Sclerotia (survival bodies)

White Mold

*Sclerotinia sclerotiorum*
Fruiting body
(conk)

*Basidiomycete*
Signs and Symptoms of Bacteria
Bacterial Leaf Spot
Bacterial Soft Rot of potato

*Erwinia sp.*
Bacterial Crown Gall

*Agrobacterium tumefaciens*
Bacterial Canker on apricot and Gummosis

Pseudomonas syringae
Bacterial ooze
Bacterial streaming