Diaporthe sp.
An emerging pathogen of hop
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Leaf Symptoms
Leaf Pycnidia
Cone Damage

Up to 50-60% yield loss reported due to shatter
Cone Pycnidia
Are cone and leaf symptoms caused by the same organism?
Leaf

Conidia
12.1± 2.1 x 3.8± 0.4 µm

Cone

Conidia
11.9± 2.0 x 4.1±0.5 µm
Causal agent: A new *Diaporthe* sp. 

- Unique molecular sequences (ITS + HIS) for leaves
- Isolates from leaves match cones (ITS)
- Further phylogenetic analysis in progress
  - HIS + four more molecular markers
  - Confirmation that isolates from the cone match isolates from the leaves

Higgins et al. Phytopathology 109:S2.1
Management Recommendations

• Isolates were collected from the following cultivars: Cashmere, Centennial, Chinook, Crystal, ‘Cascade’
  • There may be others...

• Symptoms reported in late July - August

• PM fungicides might be effective at limiting the disease, but efficacy trials have not yet been performed
• *Diaporthe* damaged cones observed toward the top of the training coir in a hopyard sprayed with Powdery Mildew products.
• Adequate spray coverage?