

VIRGINIA TECH. PLANTS Plants get sick too! GET SICK TOO! Just like us, humans, plants get sick from infection by pathogens (disease-causing organisms), such as • Fungi (e.g., Athlete's foot, candidiasis or thrush) • Bacteria (e.g, Lyme disease, tuberculosis) • Viruses (e.g., COVID-19, flu, chickenpox) • Mycoplasmas (e.g., walking pneumonia), Plant Pathologists and help keep plants healthy • Insects (e.g., heartworm). For additional information of interest, visit the APS - The American Phytopathological Society at www.apsnet.org









Investigations of ripe rot of grape

- Ripe rot is caused by a group of fungal pathogens.
- It can cause not only yield loss, but contamination can change wine flavor



Former graduate student, Dr. Charlotte Oliver









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Crown gall directly damages grapevines

- Infection by a bacterium pathogen, *Rhizobium vitis*, causes plant cell to grow and reproduce without control
- When the gall damages the vascular system, the whole vine can collapse.



A biological control agent

- The biological control agent interfere with the pathogen in different form to prevent disease development.
- We formed an international collaboration with Japanese National Agriculture and Food Research Organization (NARO) to examine the efficacy of a new biological control agent against crown gall.



Dr. Akira Kawaguchi of NARO















