

Plant Pathology Seminar Series

“Biology and management of plant-parasitic nematodes in Washington wine grape vineyards”

By: Inga Zasda



Plant-parasitic nematodes are widely prevalent in Washington wine grape vineyards. Despite this wide prevalence, little is known regarding the damage potential of nematodes, how to manage them, and their biology in this production system. Since 2009, scientists from USDA-ARS and WSU have been working collaboratively to address plant-parasitic nematode issues in Washington wine grape vineyards. The focus has been on the northern root-knot (*Meloidogyne hapla*) and dagger (*Xiphinema* sp.) nematodes. This research has defined the distribution of nematodes in vineyards and developed a degree-day model for root-knot nematode development; both pieces of information that can be used to better target nematodes with management practices. Long-term vineyard trials have also allowed for the evaluation of fumigation and rootstock selection, management practices that are central to controlling nematodes in replanted vineyards. Combined, results of this research collaboration will help viticulturists better manage nematodes in Washington vineyards.

4:10 pm | October 5th, 2020 | Plant Pathology 515, Fall 2020

Zoom Link and ID: <https://wsu.zoom.us/j/91621814000?pwd=MDVOY1prSQYbDRaMXNvTVNxTS82UT09>

Meeting ID: 916 2181 4000

Passcode: 5353

Call in number: 1 253 215 8782



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BIO: Inga Zasada is a Research Plant Pathologist with USDA-ARS and a Courtesy Associate Professor at Oregon State University. She received a B.S. and a M.S. in Crop Science from Oregon State University and North Carolina State University, respectively. Her interest in nematology began as a Peace Corp volunteer in Malta where she worked on developing management strategies for the plant-parasitic nematodes associated with potato and other crops on the islands. She received a Ph.D. in Plant Pathology from the University of California, Davis under Dr. Howard Ferris. Inga joined the USDA-ARS Nematology Laboratory, Beltsville, MD in 2003. During her tenure she led a national effort to implement a biosolid amendment product into a diversity of crop production systems for plant-parasitic nematode management. She also continued research on understanding the underlying mechanisms of nematode suppression with cover crops and organic amendments. In 2008, Inga accepted a position in the USDA-ARS Horticultural Crops Research Laboratory, Corvallis, OR. Here research program focuses on the management of plant-parasitic nematodes in small fruits and other horticultural crops. Current research endeavors include developing integrated management strategies for soil-borne pathogens of small fruits, evaluating rootstocks for nematode management into Washington wine grape vineyards, and genome sequencing and exploration of understudied plant-parasitic nematodes.
