## DIAGNOSTICS

### Suggested Online Resources for Determining "First Report Status"

Tom Creswell, Plant & Pest Diagnostic Lab, Purdue University, Melodie Putnam, OSU Plant Clinic, Oregon State University and Gail Ruhl, Plant & Pest Diagnostic Lab, Purdue University

When encountering a pathogen on a host for the first time you may wonder whether it is something new in your state or for the US.

If you are considering working on a pathogen to write a first report your search should always include an indepth search of CAB abstracts and/or Agricola for the host genus in combination with the pathogen genus. Don't forget to check for synonyms of the pathogen name. These databases are usually available online via a university subscription (check with your university library).

Also take a look at the NPDN database (https://npdn. ceris.purdue.edu/index.php) in the pest/host index section. The database will provide the number of times that a particular pathogen or insect has been submitted on a specific host plant (confirmations only). Finding a pest/host combination listed in the NPDN database doesn't mean it has been reported in a publication but if you learn it has been uploaded multiple times then it's less likely to be a "new" report.

Below are some specific resources for searching, grouped by pathogen type:

#### FUNGI:

• "The Big Red Book": Fungi on Plants and Plant Products in the United States: ARS database: http://nt.ars-grin.gov/fungaldatabases/fungushost/ fungushost.cfm

# TIP OF THE MONTH

- Ferris Nematode Index: http://plpnemweb. ucdavis.edu/Nemaplex/HostLists/hoststatusindex. htm
- Nemabase: http://plpnemweb.ucdavis. edu/Nemaplex/Nemabase2010yesterday/ Nemabase%20Search%20Menu.htm

#### VIRUSES: www.dpvweb.net/index.php

#### **BACTERIA:**

There is no single good online resource for bacterial plant pathogens but J.F. Bradbury's 'ancient' 1986 text "Guide to Plant Pathogenic Bacteria" (CABI Press) has an appendix with host information for bacteria. It is dated, but it is one of few resources for bacteria, and captures older information, which might not be in online databases. Bradbury published a second edition with joint author G.S. Saddler but both editions are currently out of print and difficult to locate.

#### **OTHER RESOURCES:**

Sometimes international reports can lead to references to reports within the US:

- www.ndrs.org.uk/ (British Society of Plant Pathology new reports)
- Finally Google Scholar is sometimes helpful: http://scholar.google.com/

Read more about the importance of writing up first reports at: www.plantmanagementnetwork.org/pub/ php/review/2009/biogeography/

This is the gold standard for reports of fungi and includes international reports also.

• MycoBank (www.MycoBank. org) includes geographic information for those fungi deposited in the Centraalbureau voor Schimmelcultures (CBS).

#### NEMATODES:

 ARS-USDA Nematode Collection Database: http:// nt.ars-grin.gov/nematodes/ search.cfm

Beltsville \ BARC	5 Agr	ed States Department O icultural Resea Sciences Systema		Microbiol	уво			
					ARS Home	About ARS Help	Contact Us	En Español
Fungi Online 🕨	Quick S	Search Specimens	Fungus-Host	Literatur	e Nomenclature			
Fungal databases - Fungus-Host Distributions Report Errors								
	(	Genus	Species					About this database
Fungus Name					🗆 Include vars 🕐			
Or Fungus Group		• •		•	<b>?</b>		English	1
Or Fungus Order							Españo	bl
Host Name					?		- Produce In	
Or Host Family		A-B C-E F-L Q-Z		<u>Q-Z</u>		A new option, Locality, has been added to the Display options. This will sort the results by geographic location.		