



NEW Course: Developing and Validating Seed Health Assays

Course Schedule

Live class sessions run 9:00 am - 10:15 am CST on Tuesdays.

Session recordings will be available approximately 24 - 48 hours after each live session in the course on the APS Learning Center.

Registration & Course Webpage



Course Summary

This course builds upon the Seed Pathology Fundamentals course, diving deeper into the latest and most effective practices for developing and validating robust seed health assays. Participants will gain a comprehensive understanding and practical tools tailored to their unique needs in research, industry, and regulatory settings. Additionally, those involved in editorial boards or manuscript reviews in plant pathology will discover valuable insights that enhance their perspectives in the field.

Detailed Schedule

Dates	Topic	Speaker(s)
Part 1: Introduction to Seed Health Assay Development & Validation		
February 11, 2025	Overview of Critical Components and Criteria for Method Validation & The NSHS Approach	Gary Munkvold Iowa State University Lindsey du Toit Washington State University
Part 2: Organizations & Associations Involved in Seed Health Testing		
February 18, 2025	ISTA & ISF-ISHI	Ruud Baarnhoorn Naktuinbouw Ludivine Thomas ISF-ISHI Joyce Woudenberg ISF-ISHI & Naktuinbouw



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Dates	Topic	Speaker(s)
February 25, 2025	DAVN & NPDN	Carrie Harmon University of Florida, Southern Plant Diagnostic Network, DAVN Co-PI
March 4, 2025	USDA APHIS	Vessela Mavrodieva USDA APHIS Plant Pathogen Confirmatory Diagnostics Lab.
Part 3: Development & Validation of Seed Health Testing Methods		
March 11, 2025	PCR & Real-Time PCR Assays	Li-fang Chen, Jill Demers & Samantha Thomas Bayer
March 18, 2025	ELISA Assays	TBD
March 25, 2025	Direct Assays	Lindsey du Toit Washington State University
April 1, 2025	High Throughput Sequencing	Sebastien Massart University of Liege, Gembloux Agro-Bio Tech
April 8, 2025	Case Studies with Multiple Types of Seed Health Assays	Kurt Klein-Hesselink US Agriseeds & ISTA Seed Health Committee
Part 4: Course Summary & Publishing Considerations		
April 15, 2025	Course Summary & Considerations for Publication and Review of Seed Assay Publications	Lindsey du Toit Washington State University Gary Munkvold Iowa State University