

Abstract:
How many things in this world can claim to be both *Glue* and *Grease*? Information Technology (IT) can!

IT facilitates the sharing of diagnostic data from around the country, from a variety of different Lab Information Management Systems (LIMS), and *glues* it all together in the National Data Repository (NDR). The robust and responsive NDR allows diagnosticians, epidemiologists, and policy makers to aggregate, analyze, and report on collected information. The development of new and improved mapping and charting capabilities in the NDR will further enhance users' ability to understand data trends, and create understandable, compelling visuals.

All the while, IT exists in the trenches as LIMS, and most laboratories can't imagine doing business without them. Whether it's the ability to enter sample data easily as it's being worked on, locate critical information quickly, accommodate lab-specific requirements, or support features like remote sample submission and image management, LIMS *grease* sample submission operations within the lab.

The IT Committee supports both of these concepts, while making sure the processes are secure, reliable, and available. And as technology evolves, the IT Committee will continue to investigate and incorporate innovative solutions to improve users' overall experience.

PDIS

Plant Diagnostic Information System

Login to PDIS 2.0

Do you need help?

- Developed to facilitate plant diagnostic lab activities for a consortium of land grant institutions, state departments of agriculture and the U.S. Department of Agriculture.
- A system of web and database applications designed to facilitate record-keeping and communication needs of lab personnel and their customers.
- PDIS is currently used in 33 states.

PClinic

PLANT DIAGNOSTIC LABORATORY SOFTWARE

PClinic has grown to support 5 states and more than a dozen labs. Keeping with its goal to be the low-cost, high-value LIMS of choice, all instances of PClinic use the same code base, and its users are frequently engaged in functionality requests to ensure they are appropriate for all labs.

- Integrated, customizable Hist and Pest/Pathogen dictionaries
- More than a dozen predefined reports, ad hoc reporting/analysis
- Integrated billing module with Invoicing and Receipt generation, Payment tracking, and Third-party Payers
- NPDN integration for Sample submission
- Image management for individual Samples, as well as dictionary entries

NPDN Data Repository

NPDN National Repository

- Over 1 million diagnoses uploaded into repository since 2004
- Multiple data analysis tools including reports, maps, and charts
- Supports data upload from multiple LIMS systems, custom Excel files, and online data entry

NPDN Portal

Upgraded content management system to Drupal 7

- Integrated single sign on authentication for use across multiple NPDN sites
- Responsive, mobile friendly design for smartphones and tablets

Distance Diagnostics through Digital Imaging (DDDI)

UNIVERSITY OF ARKANSAS DIVISION OF AGRICULTURE Cooperative Extension Service

- Each DDDI system is custom designed and implemented to meet the unique needs of our state partners
- Sample information from each DDDI system is forwarded to the NPDN National Repository (NDR), increasing the value of the NDR by encompassing sample information and pest identification from all over the country
- Every DDDI system is hosted on CIDS supported servers, eliminating the need for state partners to employ dedicated IT personnel, purchase or support infrastructure, or worry about access

Farm Bills

NPDN Scatter Graph

Data Analysis - pest threshold report, scatter graph, and new app under development

- ETNet - new exercise scenario software based on PDIS 1.0 exercises and original ETNet system
- One Name for Fungi - updated pest names based on new naming standards (added synonyms)

Coming Soon

NPDN National Plant Diagnostic Network

Enter Username

Enter Password

Remember me

Log On

Forgot Password?

NPDN Full Site | NPDN Public Site | CERIS

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