



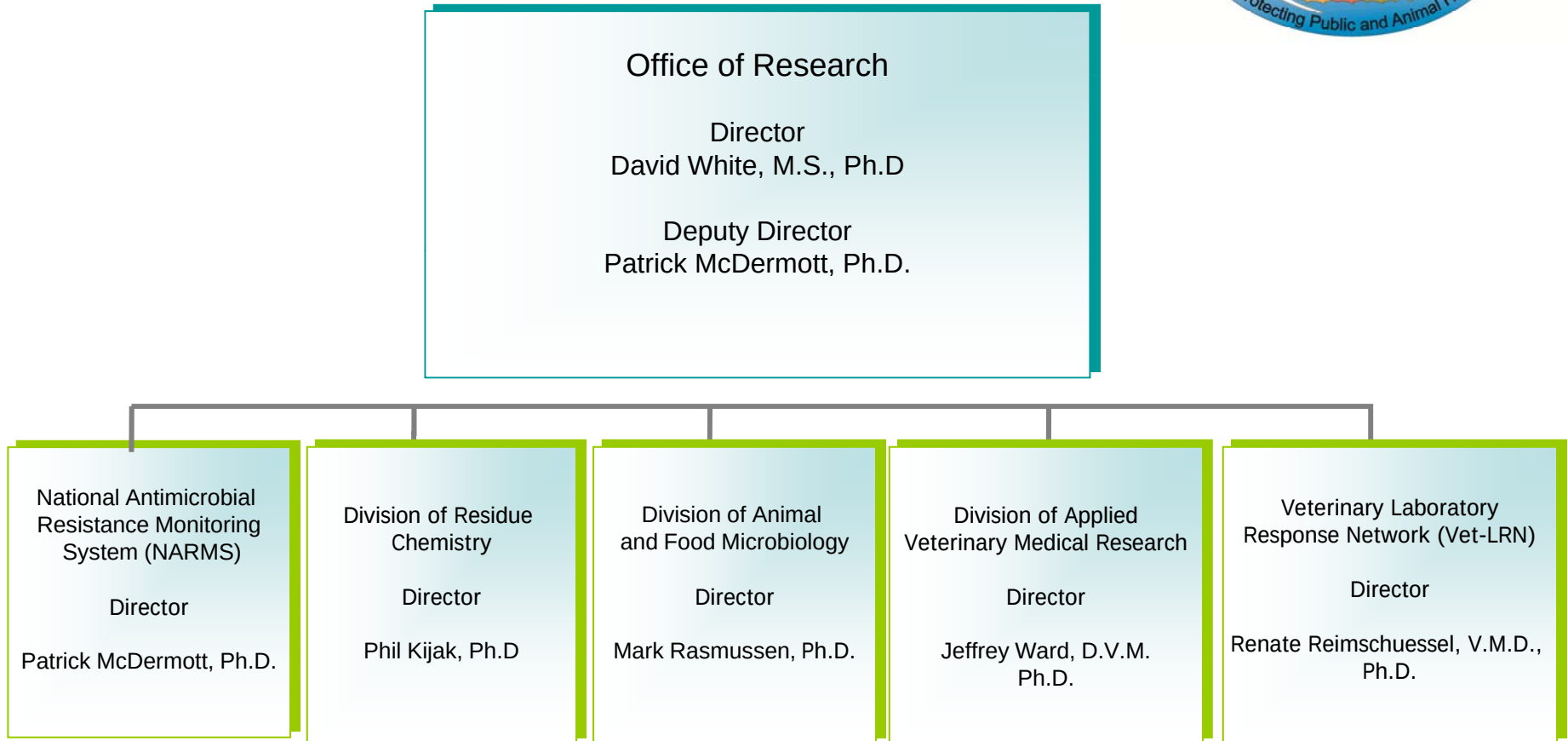
CVM's

Veterinary **L**aboratory **R**esponse **N**etwork

What's happened in 2011

Renate Reimschuessel, VMD, PhD

OR Organizational Chart





Vet-LRN's **MISSION**

To promote human and animal health
by

collaborating with veterinary diagnostic
laboratories

to provide scientific information,
to build laboratory capacity and
to train scientists

investigating **CVM** regulated products
(animal feeds/animal drugs)

Need a system to help investigate potential pet/livestock food/medicine related disease

- CVM is developing a new network similar to the FERN system (**smaller**)





Why do we need Vet-LRN?

- To diagnose feed or drug adverse events in matrices not commonly encountered in food testing laboratories
- eg. Non- typical animal feed
- eg. Animal dies, but none of the feed is available for testing
 - need to test tissues/blood

Food labs are used to food



Food labs are used to food



Food labs are not used to some foods for animals:



Food labs are not used to
diagnostic samples:





Vet-LRN

Works with other networks but Vet-LRN needs to be at CVM

1 Program Director

- Writes RFA's

- Interacts with the labs on CVM projects

- Receives data from the projects

- Writes reports



1 Support Scientist

- Assists in these projects

- Conducts in-house investigations
microbiology/chemistry





Vet-LRN

1 Liaison with OSC

Monitors incoming complaints

Interacts with emergency response groups

Assists in response study coordination



1 Contract chemist

Responsible for setting up new laboratory equipment dedicated to Vet-LRN

Developing validation and proficiency protocols

Conducting in-house testing



These are all tasks that cannot be done by outside networks



Vet-LRN

Veterinary Laboratory Response Network

How do we decide what we need to investigate?

Discussions with Office of Surveillance and Compliance

Discussions with consumer complaint coordinators

Discussions with veterinary laboratories

Discussions with clinicians

Coordinate with other FDA groups

Animal Feed Safety System, EOPS, ORA, CORE

PetNet

Pet Event Tracking Network (PETNet)

- Launched on August 1 by the Partnership for Food Protection and FDA
- PETNet is a secure, web based information exchange system that will allow FDA and Federal and State Agencies to share initial information about pet-food related incidents, such as:
 - illness associated with the consumption of pet food
 - pet food product defects.
- Voluntary information exchange, surveillance and alert system is designed to provide a real-time mechanism for sharing information

PETNet - cont

- Only accessible to members, who are Federal, State, and Territorial government officials responsible for the regulation of pet food products and the investigation of disease outbreaks in companion animals
- Intent of PETNet is to increase efficient communication between Federal and State agencies for identifying and potentially responding to concerns associated with pet food
- For more information:
<http://www.fda.gov/AnimalVeterinary/NewsEvents/CVMUpdates/ucm266207.htm>

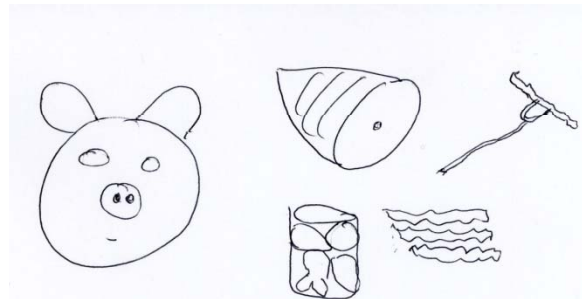


2011 Projects - Chemistry

- Optimize MS-LC melamine and cyanuric acid method in pig muscle, liver, kidney and urine.
- Goal – increase proficiency and capacity

- 3 FERN USDA laboratories

- Arizona State Public Health Laboratory
- New Hampshire Public Health Laboratory
- Washington State Public Health Laboratory





2011 Projects- Micro

- Evaluate pet feeds for bacterial pathogens
 - Salmonella
 - Listeria
 - E. coli 0157H7
 - generic E. coli
- Goal – increase proficiency and capacity
- 6 FERN FDA laboratories
 - FL Dept of Agriculture and Consumer Services
 - MI Dept of Agriculture
 - MN Dept of Agriculture
 - NC Dept of Agriculture
 - OH Dept of Agriculture
 - WA Dept of Agriculture



Stakeholder Meeting March 2011

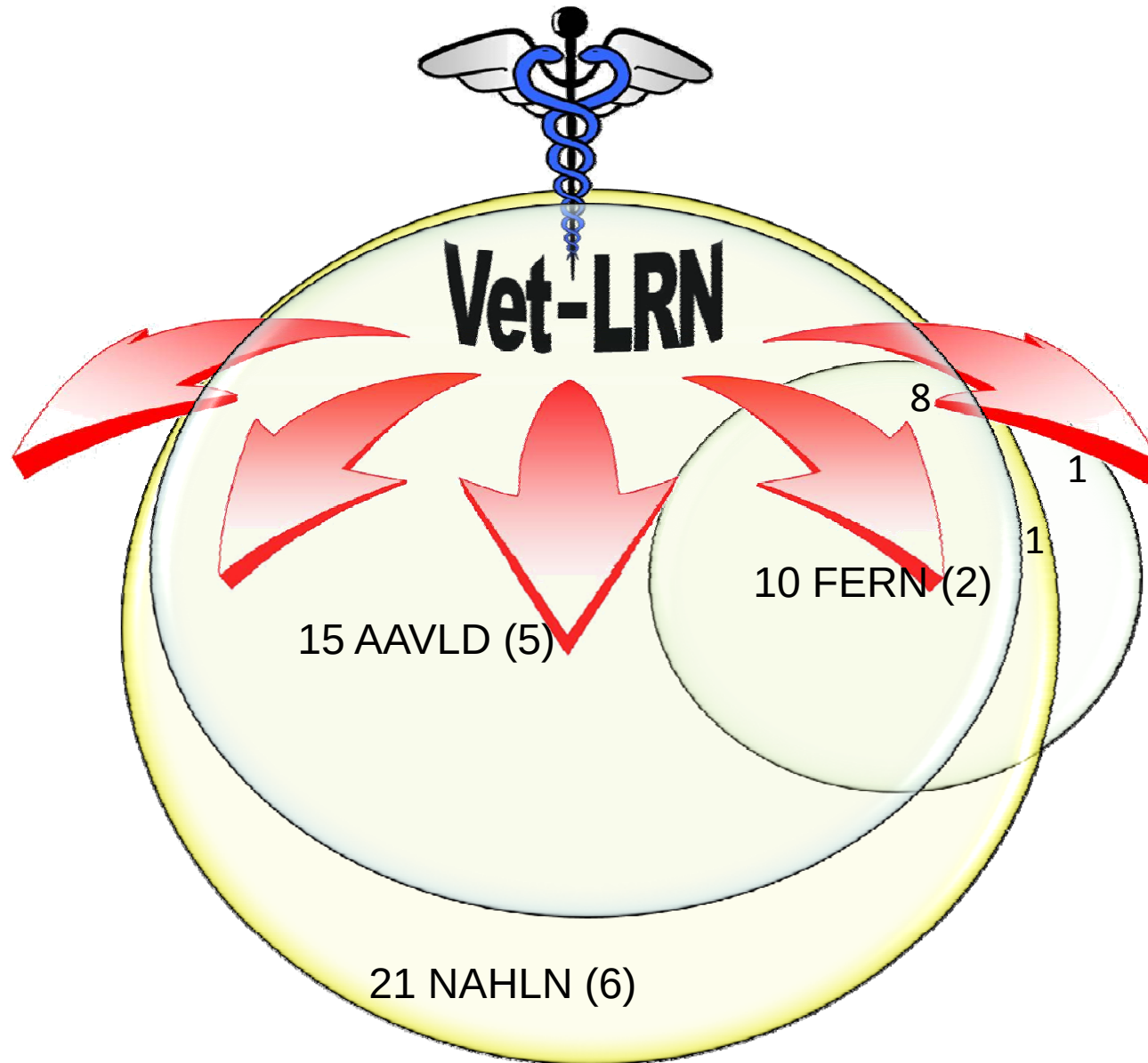
Met with Veterinary Diagnostic Laboratories to:

- Develop contacts with CVM

- Describe capabilities

- Describe needs

Who was at the stakeholder meeting?





Vet-LRN's Website

<http://www.fda.gov/AnimalVeterinary/ScienceResearch/ucm247334.htm>

The screenshot displays the FDA website interface. At the top, the U.S. Department of Health & Human Services logo and the FDA logo are visible, along with the URL www.hhs.gov. The main navigation bar includes links for Home, Food, Drugs, Medical Devices, Vaccines, Blood & Biologics, Animal & Veterinary, Cosmetics, Radiation-Emitting Products, and Tobacco Products. The left sidebar contains links for Science & Research, Veterinary Laboratory Response Network, Research Areas, and Tools & Resources. The main content area is titled "Presentations from the 2011 Vet-LRN Conference" and lists several FDA presentations with their respective authors and file sizes.

U.S. Department of Health & Human Services
www.hhs.gov

FDA U.S. Food and Drug Administration
A-Z Index Search go

Home | Food | Drugs | Medical Devices | Vaccines, Blood & Biologics | Animal & Veterinary | Cosmetics | Radiation-Emitting Products | Tobacco Products

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Veterinary Laboratory Response Network
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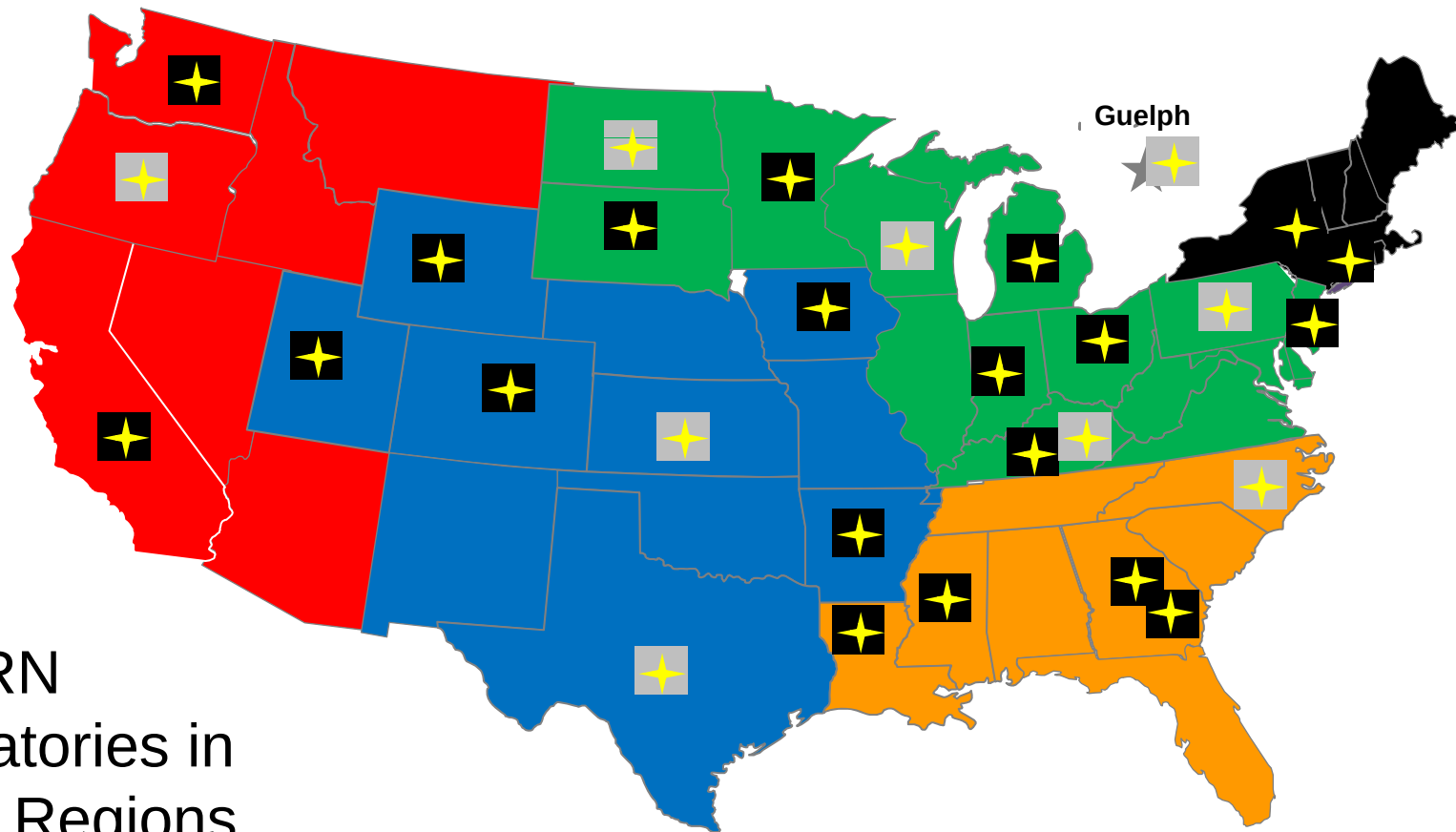
Presentations from the 2011 Vet-LRN Conference

FDA Presentations

- [CVM's New Program Vet-LRN \(PDF - 2.3MB\)](#)
Renate Reimschuessel, VMD, PhD
- [Center for Veterinary Medicine Office of Research \(PDF - 3.7MB\)](#)
David G. White, Ph.D.
- [Food Emergency Response Network \(FERN\) - A Model for Vet-LRN? \(PDF - 210KB\)](#)
Lauren Yeung
- [Office of Surveillance and Compliance \(PDF - 330KB\)](#)
Daniel G. McChesney, Ph.D.
- [Animal Feed Safety System \(PDF - 404KB\)](#)
Al Montgomery
- [Pet Food Early Warning Surveillance System: The Practitioner's Role in Pet Food Safety \(PDF - 501KB\)](#)
Christopher Melluso, D.V.M.
- [Drug Residues in Animal Derived Foods \(PDF - 1.2MB\)](#)
Deborah A. Cera

- Pacific Region
- Southwest Region
- Central Region

- Northeast Region
- Southeast Region
- Vet-LRN Laboratories
- Pending Vet-LRN Laboratories



Vet-LRN
Laboratories in
FERN Regions



CVM Vet-LRN RFA

- Evaluation of Salmonella in Symptomatic and Asymptomatic Pets

a Vet-LRN Program Cooperative Agreement

- Goal – gain further insight into the frequency of Salmonella infected companion animals increase proficiency and capacity
- 11 Laboratories will develop standardized protocol for methods and patient selection
- 1100 symptomatic and 1100 asymptomatic fecal samples will be analyzed



Vet-LRN Cases

- Cat with renal crystals
- Potential Salmonella in a Cat
(eating recalled product)
- Potential Salmonella in a Dog
(eating potentially recalled product)
- Death in Guinea Pigs
(possibly feed related)
Investigated using a Vet-LRN laboratory



Diagnostic Laboratory Feed contamination database

- Last information from diagnostic laboratories compiled up through 2006
- Only listed chemicals
- Current DB will request info on microbial and chemical events



Proficiency testing

- Collaboration with the Moffett Center to administer 4 PT tests during FY 2012
- Salmonella + 3 chemicals (TBD)
- To support proficiency testing requirements of accrediting organizations



Plans

- Work with AAVLD to develop a proficiency (round robin) program which will fulfill needs of both Vet-LRN and AAVLD
- Provide new instruments to Vet-LRN labs to speed up certain chemical or microbial tests.
- Provide training on new instruments



Goals

- Enhance communication between CVM and Veterinary Diagnostic Laboratories
Stakeholder meeting, monthly updates
- Provide scientific information to CVM
Salmonella RFA, FERN Collaborations
- Build Laboratory Capacity
Developed network
Proficiency testing to begin soon