NARMS Public Meeting Agenda
October 13-14, 2020

DAY 1

10:30 AM – 11:00 AM	**Welcome**
10:30 AM – 10:40 AM	Welcome address –Dr. Steven Solomon, (FDA)
10:40 AM – 11:00 AM	The NARMS Strategic Plan & the Meeting Agenda –Dr. Patrick McDermott (FDA)
11:00 AM – 1:30 PM	**Goal 1: Enhance Sampling for Foodborne Pathogens within a One Health Framework**
Moderator	Dr. Errol Strain (FDA)
11:05 AM – 11:30 AM	Objective 1.2: Implement geographically-representative monitoring including surface waters to establish baseline AMR data in aquatic ecosystems
	One Health monitoring for antibiotic resistance: An isolate-based approach – Dr. Amy Kirby (CDC)
	Development and implementation of surface water pilot study within NARMS – Dr. Jay Garland (EPA)
11:35 AM – 12:00 PM	Objective 1.1: Enhance and maintain routine resistance monitoring in select pathogens causing illness in food-producing and companion animals
	Vet-LIRN AMR monitoring program from 2017 to 2019: Enhancing the One Health initiative by monitoring resistance in animal pathogens - Dr. Olga Ceric (FDA)
	National Animal Health Laboratory Network (NAHLN) Antimicrobial Resistance Pilot Project Year 2 – Dr. Beth Harris (APHIS)
12:00 PM – 1:00 PM	**Lunch**
1:00 PM – 1:30 PM	Q & A Goal 1
1:30 PM – 3:55 PM	**Goal 2: Employ Advanced Technologies to Better Understand the Evolution and Spread of Resistance among Foodborne Pathogens**
Moderators	Dr. Jean Whichard (CDC)
1:35 PM – 1:45 PM	Objective 2.2: Optimize in vitro antimicrobial susceptibility testing to identify new resistance mechanisms.

	Overview of Phenotyping in The Age of WGS – Dr. Gregory Tyson (FDA)
1:45 PM –2:05 PM	Objective 2.1: Apply predictive resistance analytics, machine learning, and other bioinformatics tools to NARMS-related data to better understand the mechanisms, sources, and spread of resistance
	Phenotype to genotype transition: Considerations – Dr. Mustafa Simmons (FSIS)
	Beyond predicted resistance: CDC's efforts towards improved detection and characterization of antimicrobial resistant outbreak clusters – Dr. Jessica Chen (CDC)
2:05 PM – 2:25 PM	Objective 2.3: Develop metagenomic approaches to characterize the resistome of animals, humans and environmental samples and to link resistance genes to their microbial hosts
	CIDTs mean fewer cultures for AMR Surveillance: The Metagenomics Path Forward – Dr. Andrew Huang (CDC), Dr. Jo Williams (CDC)
	Metagenomics insights into the animal and environmental resistome intersect – Dr. Daniel Tadesse (FDA)
2:25 PM – 2:45 PM	**Break**
2:45 PM – 3:05 PM	Objective 2.4: Employ long-read DNA sequencing methods to establish a reference database of fully characterized strains and their plasmids.
	Improved plasmid classification: Plasmid Taxonomic Units (PTUs) – Dr. Kaitlin Tagg (CDC)
	Generating reference libraries of closed plasmids and genomes for AMR surveillance – Dr Shaohua Zhao (FDA)
3:05 PM – 3:50 PM	Q & A Goal 2
3:50-4:00 PM	**Day 1 Closing Remarks** – Dr. Patrick McDermott (FDA)

DAY 2

9:30 AM – 9:40 AM	**Welcome and Review of Day 2 Agenda** – Dr. Patrick McDermott (FDA)
9:40 AM – 10:55 AM	**Goal 3: Improve Data Sharing, Communication and Collaboration**
Moderator	Dr. Kathe Bjork (APHIS)

9:45 AM – 10:30 AM	Objective 3.1: Deposit microbiological data into public databases and post timely web-based updates that describe emergent resistance phenomena for timely response by all stakeholders. NCBI tools for AMR surveillance – Michael Feldgarden (NCBI) Resistome Tracker: Monitoring antibiotic-resistant bacteria by their genes – Dr. Heather Tate (FDA) CDC NARMS data sharing and communication – Mr. Jared Reynolds (CDC) FSIS NARMS data sharing and communication – Dr. Uday Dessai (FSIS)
10:30 AM – 11:00 AM	Q & A Goal 3
11:00 AM – 11:45 AM	**Goal 4: Conduct Research to Assess the Sources and Impacts of Resistance and the Effectiveness of Prevention Practices for Foodborne Pathogens**
Moderator	Dr. Sue Gerber (CDC)
11:05 AM – 11:35 AM	Objective 4.1: Collaborate with partners to understand prevention practices including non-antimicrobial interventions (e.g., bacteriophages, vaccines, husbandry) and their impact on resistance Partnering of industry, regulatory and research agencies to investigate the emergence of outbreak-associated *Salmonella enterica* serovar Reading isolates from turkey products – Dr. Shawn Bearson (ARS) Objective 4.2: Conduct studies to assess risk factors for antimicrobial-resistant infections and to attribute infections to foods, animals, environmental and other sources. Antimicrobial resistance on farms: The role of wildlife – Dr. Jeffery Chandler (APHIS) From the pet industry to veal calves: Examining disease prevention, antimicrobial use and resistance across the One Health spectrum through fundamental science – Dr. Megin Nichols (CDC)
11:35 AM – 11:55 AM	Q & A Goal 4
11:55 AM –12:10 PM	**Break**
12:10 PM – 3:10 PM	**Stakeholder AMR Updates**

Moderator	Dr. Gamola Fortenberry (FSIS) and Dr. Uday Dessai (FSIS)
12:15 AM – 12:25 AM	Poultry – Dr. Ashley Peterson, National Chicken Council
12:25 PM – 12:35 PM	Swine – Dr. Heather Fowler, National Pork Producers
12:35 PM – 12:45 PM	Cattle – Dr. Mandy Carr-Johnson, National Cattlemen's Beef Association
12:45 PM –12:55 PM	Aquaculture – Dr. Patricia Gaunt, Mississippi State University
12:55 PM – 1:45 PM	**Lunch**
1:45 PM – 1:55 PM	NARMS in 2020: A Consumer Advocacy Perspective – Steve Roach, Keep Antibiotics Working
1:55 PM – 2:05 PM	The Pew Charitable Trusts: Perspectives on the National Antimicrobial Resistance Monitoring System (NARMS) – Kyle Kinner, Pew
2:05 PM – 2:15 PM	**Break**
2:15 PM – 3:05 PM	**Public Commentary**
3:05 PM – 3:20 PM	**Closing remarks and adjourn** – Dr. Patrick McDermott (FDA)