

2024 GenomeTrakr Meeting

October 16 – 17, 2024
Hotel at the University of Maryland
College Park, MD

AGENDA

**Wednesday, October
16, 2024**

9:00 am – 11:00 am	Metadata Cleanup Challenge Salon A/B
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12:30 – 1:30 pm	Exhibitors Open Salon A/B Foyer <i>Meet with industry partners to discuss the latest in new technology and solutions for the GenomeTrakr Network partners.</i> • Oxford Nanopore Technologies • Clear Labs • QIAGEN • Pacific Biosciences • Illumina
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1:30 pm – 4:45 pm	Salon A/B
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Moderator:	Shari Shea, APHL
1:30 – 1:45 pm	Welcome and Overview of FDA Human Foods Program (HFP) Reorganization <i>Eric Brown, FDA</i>

1:45 – 2:05 pm	Developing the toolkit to support equitable access to pathogen genomic surveillance: The International Pathogen Surveillance Network (IPSN) <i>Tim Dallman, Assistant Professor, Utrecht University, Veterinary Medicine, Institute for Risk Assessment Sciences (IRAS)</i>
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2:05 – 3:05 pm	Exploring Current Sequencing Projects
2:05 – 2:25 pm	• Foodborne virus sequence database ViroTrakr and sequencing efforts, <i>Zhihui Yang, FDA</i>
2:25 – 2:45 pm	• Exploring the practicality of tracking foodborne pathogens using wastewater surveillance, <i>Edward Dudley, Pennsylvania State University</i>
2:45 – 3:05 pm	

- Exploring impact of sequencing historical *Listeria* isolates, *Renato Orsi, Cornell University*

3:05 – 3:30 pm **Break**

Moderator: Tyann Blessington, FDA

3:30 – 4:15 pm **Best Practices for WGS Data Defensibility**
Jamie Pettengill and Leslie Hintz, FDA

4:15 – 4:45 pm **Industry Flash Talks**
Industry partners will discuss available technologies that may be useful to network-contributing laboratories.

- 4:15 – 4:25 pm • Joshua Boston, QIAGEN
- 4:25 – 4:35 pm • Kyle Miller, Illumina
- 4:35 – 4:45 pm • Anna Niewiadomska, Oxford Nanopore Technologies

5:00 – 6:00 pm **Networking Reception**
Top of the 7's (Hotel at UMD)
Come mingle with state, federal, and industry partners! Light hors d'oeuvres and cash bar available.

**Thursday, October 17,
2024**

8:30 am – 3:30 pm ET **Salon A/B**

Moderator: Tina Pfefer, FDA

8:30 – 9:30 am **Insights from Federal Partners**

- 8:30 – 8:36 am • Ruth Timme, FDA CFSAN GenomeTrakr
- 8:36 – 8:42 am • Olgica Ceric, FDA CVM Vet-LIRN
- 8:42 – 8:48 am • Claudine Kabera, FDA CVM NARMS
- 8:48 – 8:52 am • Peyton Smith and Kelley Hise, CDC PulseNet
- 8:52 – 8:58 am • Glenn Tillman, USDA FSIS
- 8:58 – 9:04 am • Ava Ellett, NOAA
- 9:04 – 9:10 am • Bill Klimke, NCBI

9:10 – 9:30 am Q&A with Federal Partners

9:30 – 9:40 am **Updates from FDA's Office of Partnerships**
Lauren Yeung, FDA

9:40 – 10:10 am **Ask Me Anything - NCBI**
This is your chance to engage with NCBI partners and ask them your burning questions!
NCBI Panelists: Arjun Prasad, Bill Klimke

10:10 – 10:30 am	Break <i>Sponsored by Illumina</i>
Moderator: Ruth Timme, FDA	
10:30 – 12:00 pm	Strain diversity within samples & polyclonal outbreaks <i>Polyclonal outbreaks pose significant challenges for public health due to the presence of multiple pathogen strains within a single outbreak, complicating source tracking and response measures. In this panel, we will discuss a current poly clonal outbreak and a research project aimed to optimize the number of colonies sequenced per sample to enhance our protocols for accurately capturing strain diversity.</i>
10:30 – 10:40 am	Multi-serotype Outbreaks: The More the Scarier, <i>Kelley Hise, CDC</i>
10:40 – 11:00 am	Not So Cool: A 2024 Multistate Outbreak Investigation of Salmonella Africana and S. Braenderup in Cucumber, <i>Tyann Blessington, Kailey Lewis, and Margaret Kirchner, FDA</i>
11:00 – 11:20 am	Swab Diversity Study: FDA/GenomeTrakr Collaboration to Determine Optimal Isolate Picks for Capturing Strain Diversity, <i>Tina Pfefer, FDA</i>
11:20 – 11:40 am	Complexities in Geno-serotyping of Salmonella in a Multiserovar Outbreak, <i>Padmini Ramachandran, FDA</i>
11:40 am – 12:00 pm	Panel Q&A Discussion
12:00 – 1:00 pm	Lunch (provided)
Moderator: Marc Allard, FDA	
1:00 – 1:30 pm	Evaluation and Validation of New Methods
1:00 – 1:15 pm	CFSAN SNP Pipeline 2 (CSP2): Rapid high-resolution SNP distance estimation directly from genome assembly data, <i>Bob Literman, FDA</i>
1:15 – 1:30 pm	ClearLabs Clear Dx evaluation for use by the GenomeTrakr laboratory network, <i>Hope Bias, FDA</i>
1:30 – 2:15 pm	Roundtables <i>Connect with colleagues in table discussions around various topics, sharing successes, challenges, and lessons learned. Prompts will be provided to facilitate discussion.</i>
2:15 – 3:25 pm	International Collaborations <i>Speakers from international contributing laboratories will discuss current projects and updates.</i>
2:15 – 2:25 pm	The Importance of International Collaboration, <i>Eric Stevens, FDA</i>
2:25 – 2:45 pm	Update from Downunder, <i>Torsten Seemann, The University of Melbourne</i>
2:45 – 3:05 pm	

3:05 – 3:25 pm	• Tracking <i>Listeria</i>: Slicing Open an International Cheese Outbreak with Genomics, <i>Amy Saupe, Minnesota Dept. of Health</i> • Global and Local Bioinformatics for Food Safety, <i>Christhian Ulises Franco Frias, SENASICA</i>
3:25 – 3:30 pm	Closing remarks/Farewell <i>Eric Brown, FDA</i>
