

Midwest ONT Sequencing Training

Michigan Department of Health & Human Services - Oxford Nanopore Technologies

Training Agenda - 4/21/2025

8:00am	Arrive @ MDHHS Bureau of Laboratories Breakfast & Coffee provided onsite	
Introduction to long-read sequencing & Oxford Nanopore Technologies		
8:30am	Welcome & Introductions Heather Blankenship, PhD - MDHHS, Macy Pell, PhD - MDHHS	
9:00am	Long Read Sequencing in Public Health Kristin Jacob, MS, PhD - MDHHS	Classroom 1013
9:30am	ONT: Technical Background & Overview ONT Field Applications Scientists: Maddy Hartley, Torrin McDonald, Ishita Parikh, PhD	
11:00am	Lunch Break (lunch provided onsite)	
Hands-on training with ONT NO-MISS & GridION workflow		
12:00pm	Lab introduction & safety orientation Becky Kramer - MDHHS	Classroom 1013
12:10pm	Hands-on training - NO-MISS protocol Library preparation, Priming & loading MinION Flow Cells, GridION sequencing ONT Field Applications Scientists: Maddy Hartley, Torrin McDonald, Ishita Parikh, PhD	Laboratory 1012
4:00pm	Wrap up & Conclusions	Classroom 1013
4:15pm	End of Day 1	

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Training Agenda - 4/3/2025

8:00am	Arrive @ MDHHS Bureau of Laboratories Breakfast & Coffee provided onsite	
8:15am	Logistics & Day 2 Overview	Classroom 1013
Overview of real-time run metrics & downstream analysis		
8:30am	Sequencer offloading, cleanup, & real-time run analysis ONT Field Applications Scientists: Maddy Hartley, Torrin McDonald, Ishita Parikh, PhD	Laboratory 1012
9:30am	EPI2ME - Introduction to ONT’s analysis workflow ONT Field Applications Scientists: Maddy Hartley, Torrin McDonald, Ishita Parikh, PhD	Classroom 1013
Common errors & troubleshooting		
10:30am	Common Errors & Troubleshooting: Q&A panel Maddy Hartley, Torrin McDonald, Ishita Parikh, PhD - ONT Kristin Jacob, MS, PhD - MDHHS Lindsay Hengesbach, MB(ASCP)CM - Michigan State University, VDL Kim Musser, PhD - Wadsworth Center, NYSDOH	Classroom 1013
12:00pm	Lunch Break (lunch provided onsite)	
Case Studies: ONT in other jurisdictions		
1:00pm	Kelly Oakeson, PhD Utah Department of Health & Human Services	Classroom 1013
1:35pm	Kim Musser, PhD Wadsworth Center, New York State Department of Health	
2:10pm	Lindsay Hengesbach, MB(ASCP)CM Michigan State University, College of Veterinary Medicine, Veterinary Diagnostic Laboratory	
2:45pm	Wrap up & Conclusions	
3:00pm	End of Day 2	