

Green ountain DNA Conference

July 24-26, 2023

DoubleTree by Hilton Hotel Burlington Vermont

Hosted by:



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ThermoFisher
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DNA LABS
INTERNATIONAL



InnoGenomics



Green Mountain DNA Conference

July 24-26, 2023
Burlington, Vermont

Monday, July 24

7:30 – 8:15 am	Registration & Continental Breakfast	Promenade
8:15 – 8:30 am	Welcome and Opening Remarks Trisha Conti, Director, Vermont Forensic Laboratory Jennifer Morrison, Commissioner, Vermont Department of Public Safety	Emerald III Ballroom
Moderator: Ron Fourney		Emerald III Ballroom
8:30 – 9:15 am	<i>No Silver Bullet but Many Tools</i> Sheila Willis	
9:15 – 10:00 am	<i>Expansion of Research Data for Utilization with Evaluative Reporting</i> Rachel Oefelein, DNA Labs International	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Technologies of the Rapidly Changing Landscape of Next Generation DNA Sequencing</i> Scott Tighe, University of Vermont	
11:00 – 11:30 am	<i>Understanding the Second Generation of PCR-MPS Kits</i> Brian Young, NicheVision Forensics, LLC	
11:30 – 12:00 pm	<i>How a Modified Algorithm and Small SNP Set can be used for Fast and Accurate Extended Kinship Estimation</i> Melissa Kotkin, Verogen	
12:00 – 1:00 pm	Lunch	The Atrium
Moderator: Michael Marciano		Emerald III Ballroom
1:00 – 1:30 pm	<i>Why Prosecutors and Public Defenders need DNA Specialists (and how your career in the lab can have a second act!)</i> Melissa Mourges, New York County District Attorney's Office	
1:30 – 2:00 pm	<i>15th Civil Support Team</i> Tanya Johns & Patrick McCabe, Vermont National Guard	
2:00 – 2:30 pm	<i>Novel Non-Genetic Approach for Identifying Source Tissue in Biological Mixtures Relevant to Sexual Assault Casework</i> Arianna DeCorte, Virginia Commonwealth University	
2:30 – 3:00 pm	Break	Promenade

Moderator: Sandra Haddad

Emerald III Ballroom

3:00 – 3:30 pm

Human Factors in Forensic DNA Interpretation – A Series of Draft Recommendations from the NIST/NIJ Expert Working Group
Tracey Johnson, National Institutes of Justice

3:30 – 4:00 pm

Development of a Forensic DNA Resource Samples (RGTM 10235)
Erica Romsos, National Institute of Standards and Technology

4:00 – 4:30 pm

Developing Forensic Applications for Digital PCR
Bruce McCord, Florida International University

4:45 – 7:00 pm

Evening Reception

Promenade

Sponsored by DNA Labs International and QIAGEN/Verogen

Tuesday, July 25

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderator: George Duncan		Emerald III Ballroom
8:30 – 9:15 am	<i>A Magic Gene-CCR5-Δ32- From Discovery to Clinical Benefit in a Generation</i> Stephen O'Brien	
9:15 – 10:00 am	<i>Forensic Investigative Genetic Genealogy (FIGG): Practical Guidance for Implementation and Workflow</i> Claire Glynn, University of New Haven	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Update on Microhaplotypes for Casework</i> Kenneth Kidd, Yale University	
11:00 – 11:30 am	<i>The Latest on Nanopore Sequencing in Human Identification</i> Roxanne Zascavage, University of North Texas Health Science Center	
11:30 – 12:00 pm	<i>RapidHIT ID Updates from Thermo Fisher Scientific</i> Peter Delaune, Thermo Fisher Scientific	
12:00 – 1:00 pm	Lunch	The Atrium
Moderator: Brian Young		Emerald III Ballroom
1:00 – 1:30 pm	<i>Developmental Validation of a Novel Approach for Determining Time-Since-Deposition of Trace DNA Evidence</i> Christopher Ehrhardt, Virginia Commonwealth University	
1:30 – 2:00 pm	<i>Sex-Based Targeted Recovery of Cells in a Heterogeneous Mixture: Separating Male- and Female-Like Cells</i> Michael Marciano, Syracuse University	
2:00 – 2:30 pm	<i>Locus Allele Count: a Tool to Estimate the Number of Contributors in a DNA Mixture</i> Marie-Pier Thibault, Laboratoire de sciences judiciaires et de médecine légale	
2:30 – 3:00 pm	Break	Promenade
Moderator: Bruce McCord		Emerald III Ballroom
3:00 – 3:30 pm	<i>The Expanding Scope of Standards and Best Practice Recommendations for Forensic Testing Laboratories Using Human Serological and DNA Testing Methods</i> Charlotte Word	

3:30 – 4:00 pm *Exploring the Connection Between Sequence-Based STRs and Genetic Ancestry*
Nicole Novroski, University of Toronto
Sammed Mandape, UNT Center for Human Identification

4:00 – 4:30 pm *Exploring the Genital Microbial Transfer After Sexual Contact Using a Deep Metagenomic Sequencing Approach*
Mirna Ghemrawi, The Center for Forensic Science Research and Education

5:45 pm Depart for Dinner Cruise Conference Center Lobby
Transportation Sponsored by Oxford Nanopore

6:15 pm Boarding for Dinner Cruise Downtown Burlington

6:30 – 9:30 pm Dinner Cruise on Lake Champlain
Sponsored by Thermo Fisher Scientific

Wednesday, July 26

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderator: Charlotte Word		Emerald III Ballroom
8:30 – 9:00 am	<i>An Automated Differential Extraction Solution for use on the Maxwell[®] System</i> Jonelle Thompson, Promega Corporation	
9:00 – 9:30 am	<i>Validation of a Custom 95,000 SNP Panel for Extended Kinship Analysis with a Genotype Likelihood Approach for Identification of US Military Unknowns</i> Jacqueline Thomas, SNA International/AFMES-AFDIL	
9:30 – 10:00 am	<i>Use of Relatives in Identifying Unidentified Human Remains (the correct way)</i> Kent Harman, Genetic Technologies	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Integrating Rapid DNA Instruments into a Casework Environment and Beyond</i> John Clemens, Kentucky State Police Forensic Laboratory	
11:00 – 11:30 am	<i>Mississippi Forensics Laboratory: Legislation & Backlog Initiatives</i> Mary Jones Dukes, Mississippi Department of Public Safety Forensic Laboratory	
11:30 – 12:00 pm	<i>IllusSTRating a Bioinformatics Workflow for NGS Data</i> Rebecca Mitchell, National Biodefense Analysis and Countermeasures Center	
12:00 pm	Final Discussion and Closing Remarks Trisha Conti, Director, Vermont Forensic Laboratory	
1:00 – 4:30 pm	Workshop Sponsored by Promega Corporation	Emerald III Ballroom