



PRELIMINARY PROGRAM

National Molecular Microbiology Diagnostic Users Group Annual Fall Meeting (NMG)

Hollywood Theatre
The Hospital for Sick Children, Toronto ON

Monday October 17, 2011

8:00-9:00 am

Breakfast

8:00-9:00 am

Registration

9:00-9:10 am

Welcome

Dr. Astrid Petrich, NMG Meeting Chair

9:10-9:40 am

Workshop sponsored by Integrated DNA Technologies

Title: Recent Advances In QPCR Design and
Synthesis Options

Speaker: Scott D. Rose Ph.D.
Director of Molecular Genetics
Integrated DNA Technologies

Objectives:

1. Present the latest advances in qPCR assay design and implementation.
2. Educate the attendees on newly improved methodologies for genotyping
3. Illustrate new options for obtaining primers and probes from an ISO 13485:2003 certified Clinical and Commercial Manufacturing (CCM) facility.

9:40-10:40 am

Workshop sponsored by Alere Inc.

Title: Fungal MDx – The time and place for MDx
in mycology



Speaker: Jamie Yantzi
Clinical Products Group, Alere Inc.
Molecular Sales Specialist

Speaker: Lisa McTaggart, PhD
Public Health Ontario
Public Health Laboratory-Toronto

Objectives:

1. To highlight the advantages of molecular techniques for use in fungal diagnostics
2. To explore methods to optimize algorithms to maximize clinical performance vs. cost

10:40-11:00 am

Coffee Break in the Exhibit Room Sponsored by Roche Diagnostics

10:40-11:00 am

Exhibits

- *Abbott Diagnostics
- *Alere Inc.
- *bioMérieux Canada
- *Bionuclear Diagnostics
- *Cedarlane
- *D-Mark Biosciences
- *Eppendorf
- *Gen-Probe
- *Integrated DNA Technologies
- *Inter-medico
- *Luminex Corp.
- *Promega Corp.
- *Qiagen Inc.
- *Roche
- *Somagen Diagnostics
- *Thermo Fisher Scientific
- *Zeptomatrix Corp.
- *Phoenix Airmid Biomedical



11:00-12:00 pm

Workshop sponsored by Qiagen Inc.

Title: High Resolution Melt Curve Analysis and
Pyrosequencing – Applications for the Microbiology
Laboratory

Speaker: Marion Tuohy MT, Research Medical Technologist,
Cleveland Clinic

Objectives:

1. Understanding the many uses of HRM on the Rotor-Gene 6000 (Q): drug resistance, organism identification, SNP rapid screening
2. HRM applications on the Rotor-Gene 6000 (Q) are easy to perform with commercial HRM PCR kits available and use of conventional PCR primers and no probes required.
3. Learn how to use Pyrosequencing and HRM as complementary technologies for detection

12:00-1:00 pm

Lunch in the Rotunda sponsored by Zepmetrix Corp.

12:00-1:00 pm

Exhibits

1:00-2:00 pm

Workshop sponsored by altona Diagnostics

Title: Controls and Standards in Molecular Diagnostics.

Speaker: Markus Hess, PhD
altona Diagnostics, Hamburg, Germany

Objectives:

1. Quantification Controls
2. Role of IC - Internal Control
3. New WHO CMV Standards



2:00-3:00 pm

Workshop sponsored by Luminex

Title: Multiplex amplification for respiratory and gastrointestinal infections

Speaker: Richard Janeczko, PhD
VP Emerging Technologies, Luminex Corp.

Speaker: Dr. Marek Smieja
St. Joseph's Healthcare Hamilton, Hamilton, ON

Objectives:

1. To gain an understanding of Luminex's Magpix instrumentation.
2. To gain an understanding of LMD's second generation respiratory virus panel assays.
2. To gain an understanding of LMD's gastroenteric assay

3:00-3:30 pm

Coffee Break Sponsored by Promega in the Exhibit Room

3:00-3:30 pm

Exhibits

3:30-4:00 pm

Workshop sponsored by Bio Nuclear Diagnostics Inc.

Title: *Clostridium difficile* Testing in the Clinical Laboratory: A Comparison of Molecular Assays and Testing Algorithms

Speaker: Christie Vermeiren, Ph.D., FCCM
Clinical Microbiologist
Shared Hospital Laboratory

Objectives:

1. Compare the performance characteristics of several commercially available molecular assays for detection of *C. difficile*
2. Compare the performance characteristics of the molecular assays using a 2-step testing algorithm
3. Discuss the integration of the various molecular assays/platforms into the clinical microbiology laboratory



4:00-4:30 pm

Workshop sponsored by Abbott Molecular

Title: The PLEX-ID: A Complete Solution for Broad
Microbial Identification

Speaker: Debbie Boldt-Houle, Ph.D.
Scientific Affairs Manager, Abbott
Molecular/Ibis Biosciences

Objectives:

- 1) To gain an understanding of the PLEX-ID system and the Ibis Technology
- 2) To gain an understanding of the breadth of PLEX-ID assays that are available including a Vector-borne, Broad Fungal, Broad Viral, and Broad Bacteria assay



**Hollywood Theatre
The Hospital for Sick Children, Toronto ON**

Tuesday October 18, 2011

8:00-9:00 am

Breakfast in the Rotunda

8:00-9:00 am

Exhibits

What's New in Molecular Testing?

9:00-9:45 am

A Salmonella Geno-Serotyping Array (SGSA) for the Rapid Classification of Serovars

Speaker: Catherine Yoshida, M.Sc.
Salmonella Genomics Research
Laboratory for Foodborne Zoonoses
Public Health Agency of Canada

Objectives:

1. To make the scientific community aware of a novel molecular typing method, the Salmonella Geno-Serotyping Array (SGSA).
2. To obtain input on practices for the implementation of the Salmonella Geno-Serotyping Array (SGSA).

9:45-10:45 am

MALDI-TOF and Clinical Proteomics- Microbiology Miracle or False Prophet?

Speaker: Philippe Lagacé-Wiens, MD, DTM&H, FRCPC
Saint-Boniface Hospital



Objectives:

1. Understand how spectra are created from micro-organisms and how they are used for identification.
2. Describe the application of MALDI-TOF MS to identification of bacteria and yeast from cultures in the clinical microbiology laboratory.
3. Describe three challenges to implementation of MALDI-TOF technology

10:45-11:15 am

Coffee Break

10:50-11:15 am

Exhibits

11:15-12:00 pm

Title: Levey-Jennings Plots and Westgard Rules; How do they apply to Quantitative PCR?

Speaker: Astrid Petrich, PhD
Clinical Microbiologist
The Hospital for Sick Children

Objectives:

1. Determine what laboratories are doing to monitor standards used in quantitative assays.
2. Determine what rules laboratories are using to assess their Levey-Jennings plots for acceptance or rejection of runs.

12:00-12:30 pm

Title: Profitability of Integrating our Efforts in (High Volume) Assay Design and Validation: Generating (and Sharing) New Value.

Speaker: Dr. Ivan Brukner

12:30-1:30 pm

Lunch sponsored by Luminex Corp. in the Rotunda

12:30-1:30 pm

NMG AGM (All participants are invited to attend)
Hollywood Theatre



12:30-1:30 pm

Exhibits

1:30-3:30 pm

NMG Working Groups (Closed to Industry)

1. Validation of Quantitative Assays
2. Proficiency Testing
 - 16s sequencing for ID
 - B. pertussis* detection

3:30 pm

Official Close of Meeting

3:30-4:15 pm

Wrap-up Meeting



**THIS MEETING HAS BEEN GENEROUSLY SUPPORTED
BY AN EDUCATION GRANT FROM CACMID.**

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**WE WISH TO THANK CACMID AND ALL OUR
INDUSTRY SPONSORS FOR THEIR CONTINUED
SUPPORT OF OUR ANNUAL MEETING.**

**WITHOUT THEIR CONTRIBUTIONS THIS MEETING
WOULD NOT BE POSSIBLE.**

THANKYOU

**Zeptometrix
Luminex Corp.
Roche Diagnostics
Promega**