

# Overview of the Canadian MALDI User's Group (CMUG)

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**Winnipeg MB Canada**

***National Molecular Group [NMG] Meeting***

**Hospital for Sick Children, Toronto, ON Oct. 22, 2014**

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**[Disclosures: NONE]**



- Provide NMG attendees background on CMUG
- Review of activities to date
- Review of website content
- Next steps for CMUG
- Update on FDA approvals
- Potential NML roles for MALDI-TOF

## 2012- CMUG created

- Michelle Alfa (Diagnostic Services Manitoba [DSM]) and Kathy Bernard (NML) discussed usefulness of a user's group
- Asked CACMID- AMMI meeting organizers if room could be set aside for the 1<sup>st</sup> ever meeting of MALDI-TOF user's group
- Held in **April 2012** in **Vancouver**
- M Alfa, K Bernard co-chairs with 40-45 interested people including vendors in attendance (minutes & sign in sheet done)

## 2012- CMUG meeting

- Group was very enthusiastic about having a “user’s group”
- NML could not host a website but there was a possibility of the DSM in Winnipeg of creating then hosting such a site.
- No money to create a formal organization
- Informal group (no board, no bylaws etc)
- Decided to try to have an annual live meeting at CACMID-AMMI

## 2013- CMUG meeting

- In 2013, Dr. Philippe Legacé-Wiens took over co-chair duties from M. Alfa, also from DSM, Winnipeg
- 2<sup>nd</sup> annual CMUG meeting held at CACMID-AMMI meeting in **Quebec City**, April 2013.
- Had 40 people in attendance, including good participation from vendors
- Minutes taken, log in sheet/ membership forms distributed.
- Reps for software-links MALDI to LIS there

## CMUG Website

- Website draft 1st set up by Min-Kuang Lee (BCCDC, Vancouver)
- Website content fine tuned after various email discussions
- Website **went hot** May 21, 2013.
- Invitations sent out that day to “visit site” / “create profile”; list based on log in sheet for the 2 CMUG meetings held at CACMID-AMMI in 2012 and 2013.
- Others joined up after hearing by word of mouth

# CMUG Website-joining


- Link at: [www.dsmanitoba.ca / CMUG](http://www.dsmanitoba.ca/CMUG)
- Password for member's section login: [CmUg2013](#)
- If interested, sign up as member at any time
- Dr. P. Legacé- Wiens serves as site moderator
- **FYI:** Site has been rarely used since its creation;
- Some discussion lines to date include: methods, assigning work load units, etc
- CMUG decided at Quebec City meeting that queries are to be sent to moderator, who then reposts discussion and responses to discussions.
- Next meeting: CACMID-AMMI, Victoria BC [April 2-5 2014](#)



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<b>Home</b>	<b>Members Only</b> 
<p>Welcome to the Canadian MALDI-TOF User's Group (CMUG) Webpage. Matrix-Assisted Laser Desorption-Time of Flight Mass Spectrometry (MALDI-ToF MS) has and will continue to revolutionize clinical microbiology laboratories in Canada and throughout the world. This site is dedicated to the acquisition and dissemination of knowledge and experience related to MALDI-TOF in Canadian Clinical Microbiology laboratories...!</p> <p>Membership to the group is open to all Canadian Microbiologists, Technologists and scientists working in the clinical diagnostics industry or those studying applications of MALDI-ToF to clinical diagnostics. Current use of MALDI-ToF is not required for membership and those contemplating use are encouraged to join. Membership from both human and veterinary diagnostics is welcome and encouraged. In order to keep the form of discussion and posting unbiased by industry, membership from industry representatives is not permitted. However, industry representatives are encouraged to provide contact information and interesting links to their products which will be posted on the website.</p>	





# CMUG

The Canadian MALDI-TOF Users Group

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## Membership Application

Members Only

All fields below are required.

Name:

Phone number:

Email address:

Clinic/organization:

City/town:

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# FDA Approval Updates

- Vitek MS rec'd **FDA approval** for **IVD** database (August 2013):

<http://www.fda.gov/newsevents/newsroom/pressannouncements/ucm365907.htm>

- ..the FDA based its decision on the results of a study of 7,068 microorganisms. When compared to sequencing and biochemical testing, the VITEK MS correctly identified the scientific group or family **93.6** percent of the time (with **87.5** percent of microorganisms identified to species level). The VITEK MS provided a `no identification` result for **3.2** percent of the microorganisms in the study. Of all test results, only **0.8 percent were incorrect** and **2.4 percent were low discrimination** with no correct result.
- The VITEK MS is for clinical use for the identification of microorganisms cultured from human specimens. It is indicated for use in conjunction with other clinical and laboratory findings to aid in the diagnosis of bacterial and fungal infections.
- The VITEK MS is manufactured by bioMerieux, Inc. in Durham, N.C.
- Vitek has 2 databases: **IVD** (193 entries) and **RUO** (many more entries)
- Bruker FDA approval pending (~2 more months?).

## Closing with...

- Vitek MS: ~20 in Canada; ?same for Brukers?
- ~ 4 labs have both a Vitek MS and a Bruker
- Some labs creating spectra in 'home made library' for various taxa; these data can be compared to new specimens, in parallel with commercial DBs (being done at NML); NML hopes to **share data**
- NML going to try to buy a Vitek; difficult, but "may be" possible to transfer data between Bruker & Vitek, so novel spectra entries can be shared. [currently only have a Bruker].
- Contact for NML proteomics section:  
**Garrett. Westmacott @ phac-aspc.gc.ca**