



CANADIAN CYTOMETRY & MICROSCOPY ASSOCIATION
ASSOCIATION CANADIENNE DE CYTOMÉTRIE ET DE MICROSCOPIE

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THE CCMA EXISTS TO:

- Encourage the sharing of knowledge regarding flow cytometry and optical microscopy;
- Create a pan-Canadian network of people interested in these cutting-edge technologies;
- Promote scientific exchange;
- Provide educational opportunities from experts in the field for technology users of all levels - beginner to expert.

Upcoming CCMA 2019- June 17-18 Edmonton, Alberta



The CCMA is coming to western Canada! The upcoming CCMA conference will be held June 17-18, 2019 at the University of Alberta in Edmonton. The symposium will feature internationally renowned speakers on topics including:

- Flow virometry
- Aquatic and environmental flow cytometry
- Nano-flow diagnostics
- Imaging mass cytometry
- Genomic cytometry
- Machine learning for data analysis in flow and imaging
- Correlative atomic force microscopy quantitative imaging-laser scanning confocal microscopy

CCMA 2019 will also feature interactive hands-on workshops. These will include topics such as:

- Flow cytometry biosafety in sorting scRNAseq
- Computational approaches to immunophenotyping
- High content cellular image analysis
- High parameter image analysis (HistoCAT)

And many more!

Registration will open in late January with early bird rates until March 31, 2019. The deadline for abstract submission for poster presentations is April 30, 2019. Visit the CCMA [website](#) for all the details on registration, talks, and housing. We look forward to seeing you there.

Nanoascale Flow Cytometry Symposium Highlights

The University of Ottawa Flow Cytometry & Virometry Core Facility has been building an expertise in the analysis of viruses and EVs since 2014. We hosted our second flow cytometry symposium in October 2018 with a focus on small particle analysis – Nanoscale Flow Cytometry for Cancer, Infection, & Disease along with a hands-on workshop to analyse viruses and EVs on the Beckman Coulter Cytoflex.

This meeting was held jointly with the uOttawa Centre for Infection, Immunity and Inflammation (CI³), with supporting grants from CCMA, ISAC, uOttawa as well as generous sponsorships from vendors. Over 200 students, SRL members, and researchers representing academic, government, and industry institutions were in attendance. Researchers from McGill, Montreal Heart Institute, uAlberta, Case Western, NIH, and uVirginia shared their current research in a wide range of topics including cancer biomarker discovery & screening, heart disease, immunological memory and immunity against infectious disease, and HIV biology. The talks highlighted the differences and commonalities in the range of flow cytometry platforms and protocols being used currently in the field and the impact of this on the resulting data. Stimulating and timely discussions were had on this topic in light of the recent publication of the updated minimal information for studies of extracellular vesicles (MISEV2018) guidelines.

Event Talks, Speakers and Sponsors can be found here:

<https://www.eventbrite.ca/e/nanoscale-flow-cytometry-for-cancer-infection-and-disease-tickets-41154866313#>

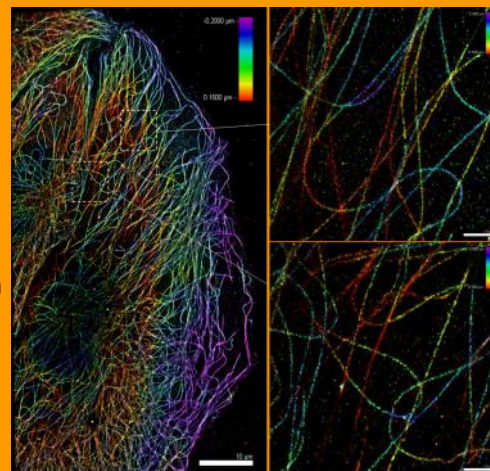
CCMA Elections: Welcome to our new Communications Director

The CCMA held elections in December for the positions of Co-President, Treasurer and Communications Director. Chris Spring and Marie Helene-Lacombe were re-elected to the positions of Co-President and Treasurer, respectively. Please join us in welcoming Emily Reddy as the new Communications Director. Emily joins us from The Hospital for Sick Children where she is a Research Associate in the Sick-

Kids-UHN Flow Cytometry Facility under the direction of Dr. Cynthia Guidos. As the Facility Applications Specialist & Training Manager, Emily is involved in the support and education of clients, with a focus on Best Practices in the field, to enhance the scope and quality of their research. We look forward to the

Cool Tools:

The Nanoimager from ONI is the first desktop-compatible, super-resolution, single-molecule fluorescence microscope with localisation precision reaching 20 nm. The instrument supports various modes of operation: single-molecule localization-based super-resolution for quantitative cellular imaging, single particle tracking in live cells, digital confocal and SIM as well as single-molecule FRET. The Nanoimager is a cost-effective solution, that operates on a standard laboratory bench, with whole-body heating for live experiments and no need for an optical table or a dark room. Unlimited licenses to ONI's NimOS software allow real-time localizations and rapid quantitative data analysis with intuitive presentation of results.



Webinar Watch

Webinars can be a great way to get in on high-quality training sessions or tutorials from the comfort of your own desk. Here are some of our favourites:

Cytek and De Novo webinar on spectral cytometry data analysis

<https://register.gotowebinar.com/register/4800827702398492161?source=CYTEK>

Reproducibility issues and antibody manufacturing

<https://www.biocompare.com/Reproducibility/Antibody-Manufacturing/>

Extracellular vesicles as diagnostic tools in cancer

<https://labroots.us7.list-manage.com/track/click?u=6f39393ef38fb324428ff8c2c&id=ead1dbb8f9&e=b40ad30ba0>

Cell and Gene therapies for cancer

<https://view6.workcast.net/register?pak=3639509146725477&referrer=Blast3&et rid=99794636&et cid=2601474>

News and Views:

Cytek launches Northern Lights spectral cytometer

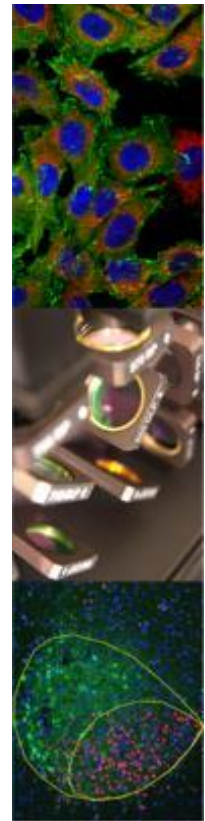
<https://cytekbio.com/pages/northern-lights>

Computational approaches to gating in clinical cytometry

<https://onlinelibrary.wiley.com/doi/full/10.1002/cyto.a.23700>

Novartis CAR-T cell therapy for leukemias approved in Australia

<https://bioinformant.com/kymriah-novartis-tga-approval/>



Meet The CCMA/ACCM Executive...

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cytometry /cy-tom'-e-try (noun)

The characterization and measurement of cells and cellular constituents.