th CYTOMETRY & MICROSCOPY SYMPOSIUM SYMPOSIUM DE CYTOMÉTRIE ET DE MICROSCOPIE

Program & Abstracts Programme & Résumés

June 18th to 20th, 2015 du 18 au 20 juin 2015

Chelsea Hotel & Peter Gilgan Centre for Research & Learning



www.cytometry.ca



CANADIAN CYTOMETRY & MICROSCOPY ASSOCIATION

ASSOCIATION CANADIENNE DE CYTOMÉTRIE ET DE MICROSCOPIE

CYTOMETRY & MICROSCOPY SYMPOSIUM SYMPOSIUM DE CYTOMÉTRIE ET DE MICROSCOPIE

Spring 2017 in Montréal, Québec



Printemps 2017 à Montréal, Québec

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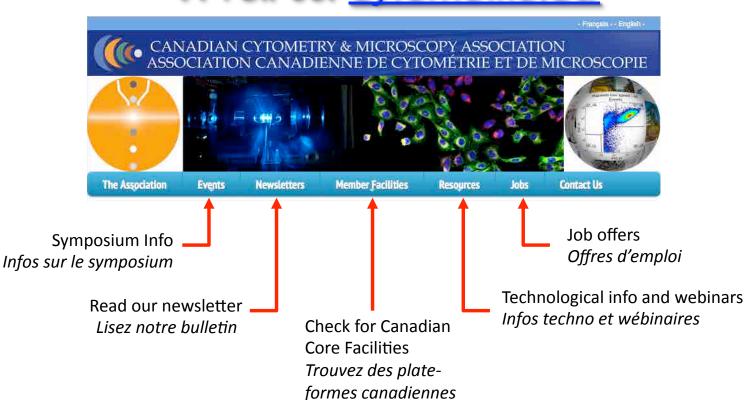




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WELCOME FROM THE ORGANIZERS

We wish everyone a warm welcome to the 5th Symposium of the Canadian Cytometry and Microscopy Association (CCMA). In 2015, we are especially proud to celebrate the CCMA's 10th anniversary. Over the past 10 years, the CCMA Cytometry and Microscopy Symposium has become the premier Canadian venue for professional development and networking in the fields of microscopy and flow cytometry. Interest in the Core Facility Managers' meeting has continually grown and will reach new levels at the 2015 meeting with a full day of programming. We are thrilled with the continued involvement of the CFI with our association and happy that we have a clear voice at the federal funding level. The CCMA is also the principal venue for flow cytometry and microscopy corporations so be sure to enjoy our sold-out vendor show. The symposium would not be possible without the ongoing support of our corporate partners.

Visit the CCMA's website (<u>www.cytometry.ca</u>) to find resources on microscopy and cytometry and to find out more about the CCMA, which is now a true pan-Canadian organization with members from all across Canada.

Enjoy the remarkable symposium program, take advantage of networking with experts in the field from across Canada, take new information back to you home institutions and have a very productive meeting.

The Organizing Committee

MOT DE BIENVENUE DES ORGANISATEURS

À toutes et tous nous souhaitons la bienvenue au 5^e Symposium de l'Association Canadienne de Cytométrie et de Microscopie (ACCM). En 2015 nous sommes particulièrement fiers de célébrer le 10^e anniversaire de l'ACCM. Au cours des 10 dernières années, le Symposium de Microscopie et de Cytométrie de l'ACCM est devenu un événement de développement professionnel et de réseautage incontournable dans le domaine de la microscopie et de la cytométrie de flux. L'intérêt pour la réunion des directeurs/ices de plateformes de service n'a cessé de croître pour franchir une nouvelle étape en 2015 avec une programmation sur une journée complète. L'intérêt que la FCI porte pour notre association nous encourage et nous sommes très heureux d'avoir une voix au niveau d'agences de financement fédéral. L'ACCM est également une place de choix pour les compagnies en microscopie et en cytométrie de flux, alors assurez-vous de profiter de l'exposition des vendeurs. Le symposium ne serait pas possible sans le concours de nos partenaires corporatifs.

Visitez le site Web de l'ACCM (<u>www.cytometry.ca</u>) pour trouver des informations sur la microscopie et la cytométrie et pour en savoir plus sur l'ACCM qui est maintenant réellement une organisation pancanadienne avec des membres de partout au Canada.

Profitez de la programmation remarquable du symposium, réseautez avec des experts de partout au Canada, rapportez des informations à votre institution et passez une conférence très productive.

Le Comité Organisateur

THE ORGANIZING COMMITTEE LE COMITE ORGANISATEUR



Claire Brown, PhD

Co-president CCMA / Co-présidente ACCM

Director - Advanced Bio-Imaging Facility, McGill University, Montreal Directrice - Service de Bio-Imagerie de Pointe, Université McGill, Montréal



Christopher Spring

Co-president CCMA / Co-président ACCM

Manager - Flow Cytometry Facility, St Michael's Hospital, Toronto

Gestionnaire - Plateforme de Cytométrie de Flux, Hôpital St Michael, Toronto



James Jonkman

Vice-president CCMA / Vice-président ACCM

General Manager - Advanced Optical Microscopy Facility (AOMF), University Health Network, Toronto

Gestionnaire general - Plateforme de Microscopie Optique de Pointe, UHN, Toronto



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Treasurer CCMA / Trésorier ACCM

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Thomas Stroh, PhD

Communication Director CCMA/ Directeur des Communications ACCM

Director - Microscopy Unit, Montreal Neurological Institute, McGill University, Montreal Directeur - Unité de Microscopie, Institut Neurologique de Montréal, Université McGill, Montréal



Marie-Hélène Lacombe

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Serghei Dernovici

Secretary CCMA / Secrétaire ACCM

Manager - Flow Cytometry Facility, Dept. Parasitology, McGill University, Montreal Gestionnaire - Plateforme de Cytométrie de flux, Département de Parasitologie, Université McGill, Montréal



2015 CYTOMETRY AND MICROSCOPY SYMPOSIUM AT A GLANCE

Venue legend:

Peter Gilgan Centre for Research and Learning 686 Bay Street

Chelsea Hotel 33 Gerrard Street West

	Thursday June 18 Core Facility Manager Meeting	Friday June 19 Plenary lectures 1, Workshops 1 and 2 Keynote lecture	Saturday I Plenary lectures 3 and 4, o CCMA genera	concurrent workshops,	
08:00	Registration	Registration	Dogistes	ation	08:00
09:00		PLENARY LECTURE 1	Registra PLENARY LE		09:00
10:00		Break - Exhibits	Break - Ex	xhibits	10:00
11:00		Workshop 1 - Imaging & Flow Cellular Assays	Workshop 3 - Imaging Imaging Living Specimens &	Workshop 3 - Flow Atypical Flow	11:00
12:00	-	,	Super-resolution		12:00
13:00	Core Facility Managers' meeting	Corporate Lunch-N-Learn Talks Exhibits	Corporate Lunch Exhib		13:00
14:00	5	Workshop 2 - Imaging & Flow	Workshop 4 - Imaging	Workshop 4 - Flow	14:00
15:00		The Complex World of Fluorescent Probes	Rapid 3D Microscopy	Standards & Standardization	15:00
16:00		Break - Exhibits	Break - E	xhibits	16:00
17:00			PLENARY LE	ECTURE 3	17:00
17.00		KEYNOTE LECTURE	60144.6		17.00
18:00			CCMA Genera	ii Assembly	18:00
19:00	Core Facility Networking Dinner	WINE & CHEESE RECEPTION POSTER SESSION			19:00
20:00					20:00

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SCHEDULE

Thursday June 18, 2015 - Core Facility Managers' Meeting

(Peter Gilgan Centre for Research and Learning – 686 Bay Street)

Auditorium

Sponsored by:



Registration desk opens at 8:00		
9:00-10:00	Stronger Together: Core facility-based associations CCMA, ABRF, NERLSCD	
9.00-10.00	Shared Resources for Education and Training Vision from the CCMA Education Committee	
10:00-10:30	COFFEE BREAK	
10:30-12:00	Models of Core Facility Financing: Increasing revenue and decreasing expenses Institutional support, setting fees, grants, staffing, group service contracts, self-insurance	
12:00-13:00	LUNCH - Sponsored by SONY bidi	
13:00-15:00	Infrastructure and Operating Funds for Cores - Can we sustain ourselves? Discussion with CFI representatives and decision-makers from various institutions	
15:00-15:30	COFFEE BREAK	
15:30-16:15	Shared Resources - Shared Responsibility: Quality control and reproducibility in core facilities Responsibilities of Cores, instrument manufacturers, reagent companies, researchers	
16:15-17:00	Bread and Butter vs. Crème de la Crème: Offering essential equipment and cutting edge technologies Basic equipment vs. state-of-the-art, cost of service contracts	
18:00-21:00	CORE FACILITY NETWORKING DINNER Hot House Restaurant & Bar - 35, Church Street	



Friday June 19, 2015

(Chelsea Hotel - 33 Gerrard Street West)

Registration d	Registration desk opens at 8:00			
8:45-9:00	Welcome & Introductory Remarks - Mountbatten Salon			
	PLENARY LECTURE (PL1)			
9:00-10:00	Ві	iomarker discovery using phospho-flow	and mass cytometry - Mountbatten Salon	
		Cynthia (Guidos	
-		Hospital for Sick Children Re	search Institute, Toronto	
10:00-10:30		COFFEE BREAK, EXHIBITS - Churchill	Ballroom - Sponsored by OLYMPUS	
Workshop 1 - Mountbatten Salon				
		<u>Imaging</u>		
		Cellular A	<u>-</u>	
		Session Organizers - Claire	Brown and Chris Spring	
	10:30	IF1- Flow cytometry for cellular assays - When	n pictures are not enough	
		Dionne White		
	11.00	Faculty of Medicine Flow Cytometry Facility, University of		
	11:00		onucleus assay using imaging flow cytometry for	
		high throughput radiation biodosimetry		
10:30-12:30		Matthew Rodrigues Department of physics, Carleton University, Ottawa		
			nsored by VI	
	11:30	IF3- Assays to Screens: identifying new drug c	andidates with automation; human stem cells; high	
		throughput quantitative microscopy and a lot of data		
		Tony Collins		
	10.00	Stem Cell and Cancer Research Institute, McMaster Univer		
	12:00	12:00 IF4- Protein complementation assays detects spatiotemporal dynamics of protein-protein		
		interactions in living cells		
		Durgajini Sivanessan Department of Biochemistry, University of Montréal, Mont	tréal	
			nsored by GE Healthcare	
		LUNCH, EXHIBITS - Churchill Ballı	room - Sponsored by Seckman	
	13:00	LUNCH-N-LEARN 1 - Mountbatten Salon	LUNCH-N-LEARN 2 - Rossetti	
		ENCELITAS		
		TECHNOLOGIES:	Miltenyi Biotec	
12:30-14:00		The merits of LED illumination for	Faster than the speed of sound: The new	
12.50-14.00		fluorescence microscopy as an alternative to	MACSQuant Tyto MEMS chip based sorting system	
		Mercury/Metal halide solutions	will revolutionize the way you sort cells	
		Jennifer Melo	Nicholas Ostrout	
		Lumen Dynamics	Miltenyi Biotec	
	13:30	·	Churchill Ballroom	



Friday June 19, 2015 (cont'd)

		Workshop 2 - Mountbatten Salon
		<u>Imaging/Flow</u>
The Complex World of Fluorescent Probes		
		Session Organizers - Claire Brown and Chris Spring
	14:00	IF5- Use and abuse of antibodies in research and the clinic
		David Rimm
	Department of Pathology, Yale School of Medicine, New Haven	
14:00-16:00	14:30	IF6- Progress in fluorescent reagent development for flow cytometry and microscopy
		Kelly Lundsten
		Biolegend, San Diego (CA)
	15:00	IF7- Developing tools for cytometry: a case study in the far-red
		Roy Edward
		Biostatus, Chester (UK)
	15:30	IF8- Simple and reliable multicolor fluorescence cell and tissue analysis
		Jody Martin and Emily Chomyshyn
		BD Biosciences

16:00-16:30

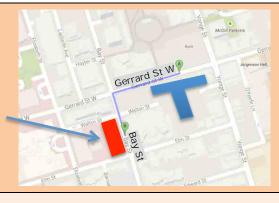
COFFEE BREAK, EXHIBITS- Churchill Ballroom - Sponsored by FLUIDIGM



Change venue

Go to:

Peter Gilgan Centre for Learning 686 Bay St.



KEYNOTE LECTURE - Auditorium - Sponsored by BD



17:00-18:00

Uncovering new therapeutic avenues for emerging viral diseases: An interdisciplinary approach at the interface of molecular virology, flow cytometry and bio-imaging

François Jean

Department of Microbiology and Immunology, University of British Columbia, Vancouver

18:00-20:00

Wine & Cheese Reception, Poster Session - Gallery - Sponsored by 😂 BD





Saturday June 20, 2015

(Chelsea Hotel - 33 Gerrard Street West)

Registration	des	k opens	at 8:30
--------------	-----	---------	---------

PLENARY LECTURE (PL2) - Mountbatten Salon

9:00-10:00

Windows of opportunity - intravital imaging's role in personalized cancer medicine

Ralph S. DaCosta

Princess Margaret Cancer Center and Techna Institute, University Health Network, Toronto

10:00-10:30

COFFEE BREAK, EXHIBITS - Churchill Ballroom - Sponsored by

-			
~	SYS	m	ex

Workshop 3 (concurrent sessions)				
	Imaging - Mountbatten Salon		<u>Flow</u> - Rossetti	
	lr	maging Living Specimens & Super-		Atypical Flow
		resolution		
		Session Organizer - James Jonkman		Session Organizer - Chris Spring
	10:30	I1- Peeking Into the Brain: Using window chambers and Two-Photon microscopy to study the response of intracranial structures to tumor growth and therapeutics Gelareh Zadeh Department of Neurosurgery, Toronto Western Hospital	10:30	F1- The development of a new cardiovascular risk assay using extracellular vesicles and flow cytometry: Opportunities and challenges Kevin Judge BD Biosciences
10:30-12:30	11:00	12- Live cell imaging under flow conditions Pina Colarusso Department of Physiology and Pharmacology, University of Calgary, Calgary	11:00	F2- Defining gut associated lymphoid tissue (GALT) dendritic cell subsets during type 2 immunity Stephen Redpath Department of Microbiology and Immunology, University of British Columbia, Vancouver
	11:30	I3- STED microscopy – a positioning in the super-resolution continuum Thomas Stroh Montréal Neurological Institute, McGill University, Montréal	11:30	F3- Single cell profiling of signaling responses using phospho flow cytometry Julie Yuan Hospital for Sick Children, UHN Flow Cytometry Facility, Toronto
	12:00	I4- Super-resolution analysis of Caveolae and Cav1 scaffolds in Prostate Cancer Cells Fanrui Meng Life Sciences Institute Imaging Facility, University of British Columbia, Vancouver Sponsored by	12:00	F4- More B-angstroms for the buck! Spectral flow cytometry Gisele Knowles Sony Biotechnologies

LUNCH, EXHIBITS - Churchill Ballroom - Sponsored by



	13:00	LUNCH-N-LEARN 3 - Mountbatten Salon	LUNCH-N-LEARN 4 - Rossetti
12:30-14:00		SONY SONY. Simple Sorting. Spectral Science.	Photon & Photon Multiplexing with hyperspectral imaging: a fast way to track simultaneously multiple cellular dynamics
		Rick Ricciardi Sony Biotechnology Inc.	Francesca Mangiarini Photon etc.

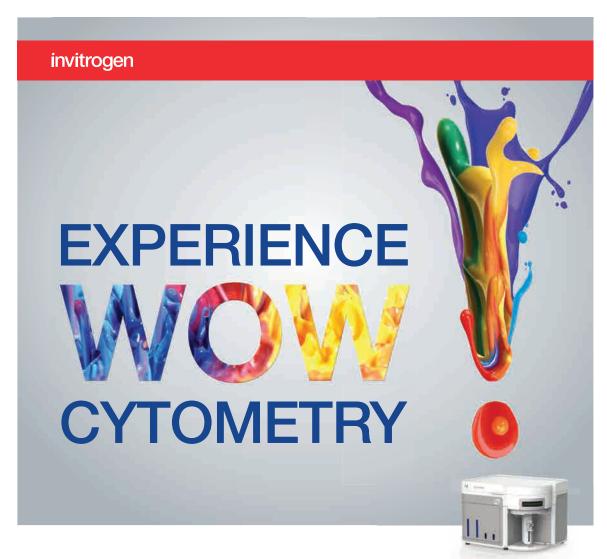
13:30 **EXHIBITS** - Churchill Ballroom



Saturday June 20, 2015 (cont'd)

(Chelsea Hotel - 33 Gerrard Street West)

Workshop 4 (concurrent sessions)				
	Imaging - Mountbatten Salon	Flow - Rossetti		
	Rapid 3D Microscopy	Standards and Standardization in		
		Cytometry		
	<u>Session Organizer - Michael Woodside</u>	<u>Session Organizer - Marie-Hélène Lacombe</u>		
	14:00 I5- Resonant scanning vs spinning disk for fast 3D confocal imaging James Jonkman Advanced Optical Microscopy Facility (AOMF), University Health Network, Toronto Sponsored by Nikon	F5- Microparticle analysis: How not to FACS it up Christopher Spring Keenan Research Centre for Biomedical Science, Toronto		
14:00-16:00	14:30 I6- Rapid 3D imaging of cleared tissue via lightsheet microscopy Douglas Richardson Harvard Center for Biologic Imaging, Harvard University, Cambridge (MA)	14:30 F6- Standardizing Multi-Centre Immune Monitoring by Flow Cytometry: An initiative by The Canadian National Transplant Research Program (CNTRP) Salima Janmohamed Beckman Coulter Inc.		
	Sponsored by 15:15 17- Two-photon optogenetic control of	15:00 F7- Data standards, quality control and automated gating for flow cytometry based diagnosis and discovery Ryan Brinkman		
	enzymatic activities with 3D living brain	Department of Medical Genetics, University of British Columbia, Vancouver		
	tissue imaging Kenichi Okamoto Lunenfeld-Tannenbaum Research Institute, Toronto Sponsored by	15:30 F8- Are cells perturbed after cell sorting? Peter Lopez New York University Langone Medical Center, New York (NY) Sponsored by		
16:00-16:30	COFFEE BREAK, EXHIBITS - Churchill Ballr	oom - Sponsored by Fluidigm Sysmex OLYMPUS		
16:30-17:30		E (PL3) - Mountbatten Salon nalysis: A platform for biomarker discovery		
10.50-17.50	la	rie Ailles		
		rie Ailles and Princess Margaret Cancer Centre, Toronto		
17:30-18:00	Awards & Closing Re	marks - Mountbatten Salon		
18:00-18:30	CCMA General Assembly - Mountbatten Salon All are welcome to attend			



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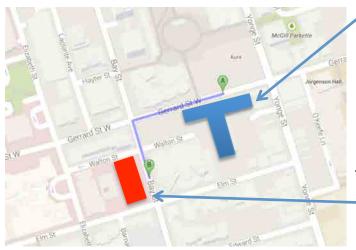
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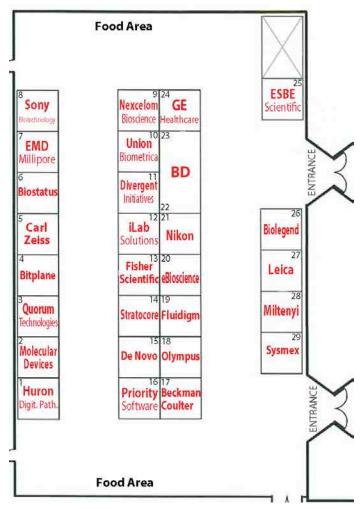
VENUE LOCATIONS



	Chelsea Hotel - 33 Gerrard Street West		
	Room	Events	
		Plenary Sessions	
	Mountbatten	Workshops 1, 2, 3 Imaging, and	
	Salon	4 Imaging	
		Lunch-N-Learn 1 and 3	
	Rossetti	Workshops 3 Flow, and 4 Flow	
	Rossetti	Lunch-N-Learn 2 and 4	
	Churchill	Exhibits	
_	Ballroom	Coffee and Lunch Breaks	

Peter Gilgan Centre for Learning - 686 Bay Street		
Room	Events	
Auditorium	Core Facility Managers meeting	
	Keynote Lecture	
Gallery	Poster session	
Gallery	Wine and Cheese Reception	

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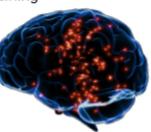
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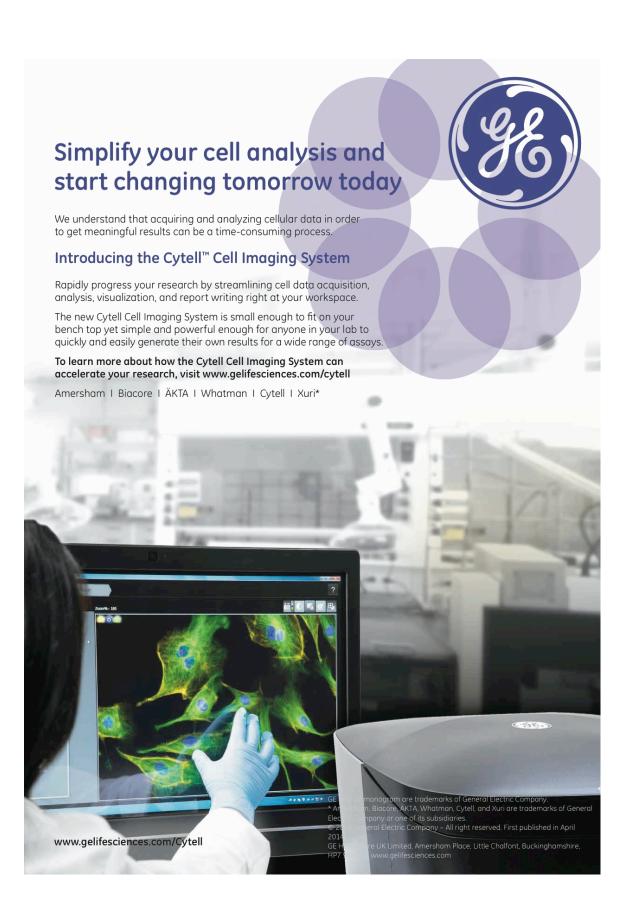
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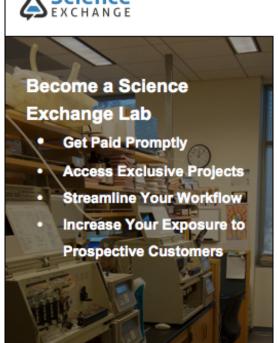
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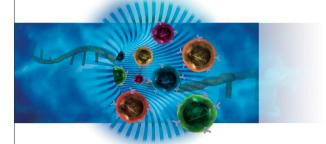




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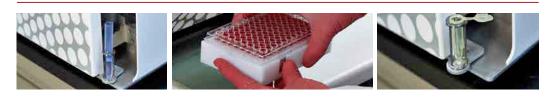
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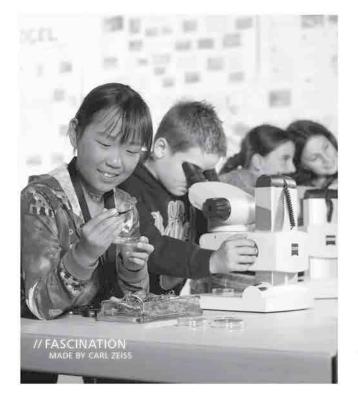
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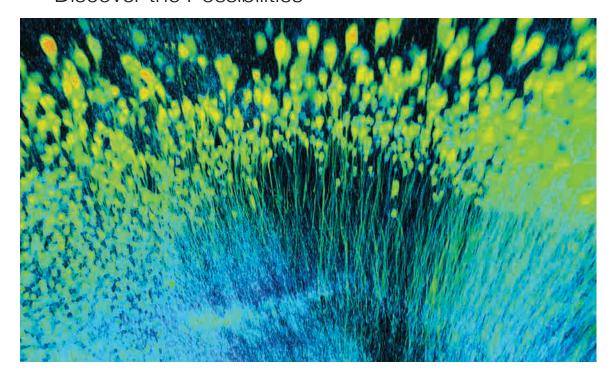
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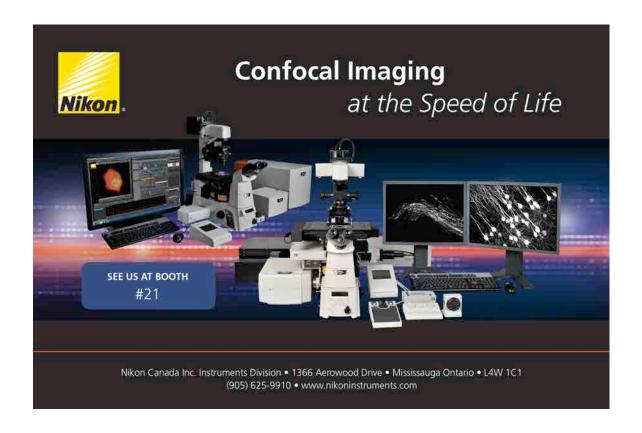
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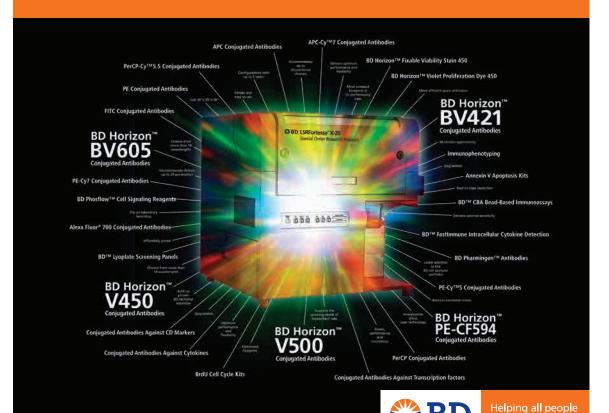
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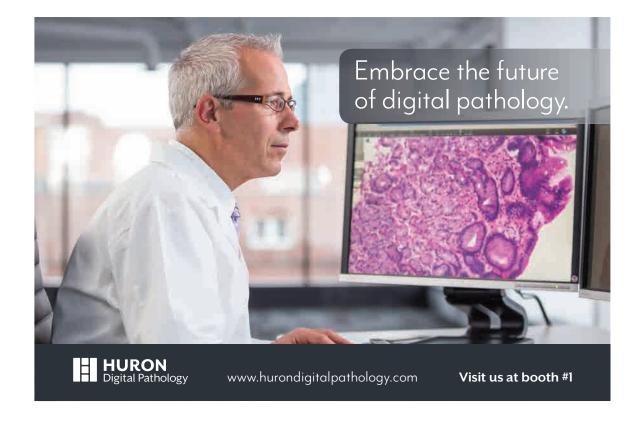
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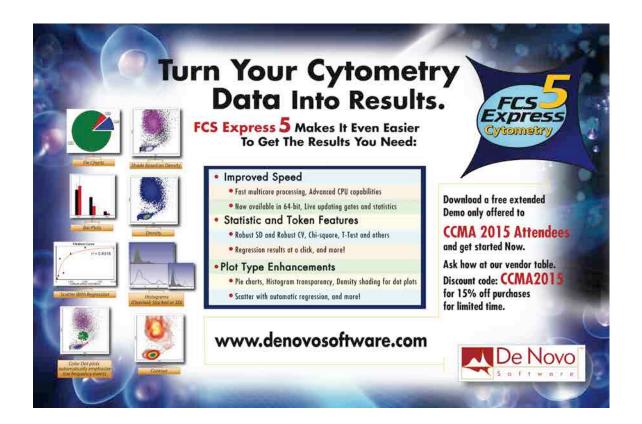


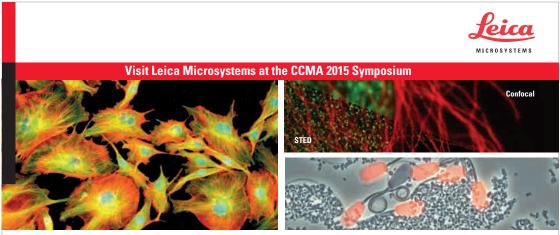


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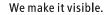






































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