10th International Conference Analytical Cytometry

SATURDAY, September 21, 2019

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	CONGRESS HALL
18:30	OPENING LECTURE Radislav Sedláček Control observánica the gateura to comprehensive catalogue of managadian gaze function
	Systemic phenotyping: the gateway to comprehensive catalogue of mammalian gene function
19:00	Welcome drink



SCIENTIFIC PROBLEM

SUNDAY, September 22, 2019

	SCIENTIFIC PROGRAM	HANDS-ON WORKSHOPS								
	CONGRESS HALL	LOBBY HALL Beckman Coulter	RED HALL Thermo Fisher Scientific	BLUE HALL Becton Dickinson	GLASS HALL Miltenyi Biotec / Biohem	YELLOW HALL I.T.A. Intertact	GREEN HALL IBA Lifesciences	COLOUR ROOM Accela		
	Opening Karel Souček Tomáš Kalina									
NARY !	SESSION									
	Andrea Cossarizza Single cell analysis in monitoring the immunotherapy of cancer									
:45	Hyun-Dong Chang T cells, Microbiota, Chronic Inflammation									
0:20	Coffee break									
	Kanutte Huse Immune profiling of lymph nodes from breast cancer patients by mass cytometry									
:30	Zdeněk Hel Altered myelopoiesis in infection and cancer									
	Ondřej Štěpánek T cells, TCR, signaling, adaptive immunity, immune tolerance	BC-L1	TF-L1	BD-L1	MB-L1	ITA-L1				
12:40	Lunch break	LUNCH WORKSHOP CytoFLEX High sensitivity and resolution flow Cytometer- The history, present and the future of the technology	LUNCH WORKSHOP Discover Invitrogen™ EVOS™ M5000 the newest all-in-one cell imaging system	LUNCH WORKSHOP Sorting Brilliant – BD Technology for everyone	LUNCH WORKSHOP MACSQuant®Tyto Cell Sorter The gentleman among cell sorters	LUNCH WORKSHOP Sony ID7000 – The world's most powerful cytometer with 7 lasers and 188 detectors		LUNCH WORKSHOP		
	Shyamala Maheswaran Epithelial to mesenchymal transition: A dynamic process contributing to genomic diversity]				
4:35	Stavros Stavrakis Optofluidic platforms for high-throughput and high	CytoFLEX LX - 6 lasers/21 colors instrument – best in class sensitivity, flexibility and performance for simple analysis even for complex multicolor experiments – introduction, technology, data analysis	Next-generation flow cytometry – improved assays for cancer research	BD-1 Dri Tubes - see an example of how BD handles the real request for one Dri Multicolor Cocktail	MB-1 MACSQuant® Tyto Cell Sorter	Sony MA900 – High-end cell sorting has never been so easy	IBA- Fab-TACS® - cell separation reinvented	Spectral Cytometry with the Cytek Aurora – New Approaches in the us of highly overlapping dyes for flow cytometry		
	Josef Spidlen Recent advancements in computational cytometry and making those accessible to bench top scientists			.i				i		
	Coffee break									
	Jean-Pierre Bourqin Towards personalized approaches for relapsed and refractory childhood leukemia									
	Brian Husband Advances in plant population biology through flow cytometry									
:25	Awards – The best cytometric publication 2018									
7:35										

MONDAY, September 23, 2019

SCIENTIFIC PROGRAM

18:35

		SCIENTIFIC PROGRAM	V1	MANUS-UN WURKSHUPS							
	CONGRESS HALL	BIG HALL	SMALL HALL	LOBBY HALL Beckman Coulter	RED HALL Thermo Fisher Scientific	BLUE HALL Becton Dickinson	GLASS HALL Miltenyi Biotec / Biohem	YELLOW HALL I.T.A. Intertact	GREEN HALL IBA Lifesciences	COLOUR ROOM Accela	
FNARY	SESSION			Beckman Coullel	merno risner scientinc	DECCON DICKINSUN	Wilterlyi Biotec / Bioriem	A. Intertact	IDA CITESCIETICES	ACCEIU	
	Paula C. Fernandez										
	T-cell lymphomas			BC-2	***************************************	BD-2	MB-2			AC	
	Ester Mejstrikova Lineage plasticity of acute leukemias			Kaluza C – Opened and flexible software platform now certified as CE-IVD – demonstration of analyzing multicolor flow cytometry data (e.g. ClearLLab 10c panels and much more)	Next-generation flow cytometry – Attune NxT detection of small particles	Q&A session with BD Application Specialists	MACSQuant® Analyzer 16	Cytognos - Complete solution for hematology based on Euroflow Next Generation Flow		Spectral Cytometry with the Cytek Aurora – Hide & Seek: Using Autofluorescence Extraction (AFE) to Better Resolve Your Population of Interest	
9:30	Short break										
LL BIOL	L SESSION LOGY AND SIGNALLING	PARALLEL SESSION CLINICAL CYTOMETRY	EDU-SESSION (CZ) ZÁKLADY CYTOMETRIE								
	Pavlína Janovská Bidirectional interactions of cancer cells with their microenvironment: Biological effects of casein kinase 1 inhibition	Tomáš Kalina Reproducibility of flow cytometry through standardization: Opportunities and challenges	Jan Svoboda Protilátky, fluorescence a kontroly Jozef Janda Základní komponenty průtokového cytometru: -								
	Stjepan Uldrijan Adaptation of cancer cells to extreme metabolic stress	Jiří Hrdý The effect of early postnatal supplementation of newborns by probiotic strain escherichia coli on regulatory T cells	fluidika, optika, elektronika	P6 2		PD 3	МРЭ	ITA 3	IBA-2		
חכיר	SHORT TALKS	Marcela Vlková		BC-3 Dura Innovation – come in	TF-3 Next-generation flow cytometry	BD-3 BD FACSymphony™ – high-end	MB-3 MACSQuant® Tyto Cell Sorter	Luminex - Immunophenotyping	Fab-TACS® - cell separation	Spectral Cytometry with	
	Katerina Nevědělová Development of 3D cultivation model of immortalized human MIHA hepatocytes for evaluation of endobiotic and xenobiotic metabolis Gerardo Vázquez Urban dust and diesel exhaust particles elicit estrogen-like effects on er-dependent gene expression and cell cycle progression Michaela Šímová Revival of chemosensitivity and	Granulocytes in CVID patients are activated and possess suppressory function		contact and discuss well-known Duraclone panels (RUO) but also the new ClearLLab 10 color panels (CE-IVD) or Custom Design Service of DRY Multicolor Cocktails for flow cytometry	improved assays for cancer research	complex multicolor solution		Extracellular Vesicles using modern flow cytometry	reinvented	the Cytek Aurora – Taste the Rainbow: Comparing two fluorochromes, how do we te signatures are unique?	
	resistance assay in solid tumors – A single-cell significance evaluation Barbora Kvokáčková Role of CD9 tetraspanin in breast cancer	SHORT TALK Yacine Kharraz High quality multicolor flow cytometry - Seeing the whole picture through full spectrum cytometry on the 5 laser aurora									
10:40	Coffee break	· i				.:					
	L SESSION LOGY AND SIGNALLING	PARALLEL SESSION IMMUNOLOGY	EDU-SESSION (CZ) ZÁKLADY CYTOMETRIE	BC-4	TF-4	BD-4	MB-4		IBA-3		
	Vendula Pospíchalová WNT signaling-inducing activity of ascites predicts poor outcome in ovarian cancer patients	Marina Bakardjieva Recent thymic emigrants and activation status in diagnostic immunophenotyping of severe primary immunodeficiencies: An euroflow	Jiří Šinkora Standardizace v průtokové cytometrii a třídění buněk Vendula Šinkorová Základy spektrální cytometrie	CytoFLEX LX - 6 lasers/21 Colors instrument - best in class sensitivity, flexibility and performance for simple analysis aven for complex multicolor experiments - introduction, technology, data analysis	Discover Invitrogen™ EVOS™ M5000 the newest all-in-one cell imaging system	BD FACSLyric™ – clinical flow was never that streamlined, now in 12 color configuration	MACSQuant® Analyzer 16		Fab-TAC5® - cell separation reinvented		
	Jan Bouchal Interaction of SKP2 and slug proteins in aggressive prostate cancer	Marcela Hortova Kohoutkova Metaboprofiling of human monocytes by flow cytometry									
	Stanislav Drápela CHK1 inhibition as a highly promising therapeutic approach to bypass chemoresistance in preclinical prostate cancer models	Marco De Zuani The humanicirculating hematopoietic stem cell compartment is impaired during sepsis									
		SHORT TALK Viera Revajová Probiotic effect on mucosal imunity to campylobacter jejuni									

HANDS-ON WORKSHOPS

	SCIENTIFIC PROGRAM			HANDS-ON WORKSHOPS							
	CONGRESS HALL	BIG HALL	SMALL HALL	LOBBY HALL	RED HALL	BLUE HALL	GLASS HALL	YELLOW HALL	GREEN HALL	COLOUR ROOM	
				Beckman Coulter	Thermo Fisher Scientific	Becton Dickinson	Miltenyi Biotec / Biohem	I.T.A. Intertact	IBA Lifesciences	Accela	
12:00	Lunch break			LUNCH WORKSHOP Dura Innovation – Duraclone, Clear-Llab 10 color, custom design service of dry cocktails of antibodies and it's performance		LUNCH WORKSHOP BD-L2 Colorful particles — next step in flow cytometry detection	4	LUNCH WORKSHOP ITA-L2 Luminex - High speed, high content & ultra-high sensitivity Imaging Flow Cytometry analysis and next generation image processing		LUNCH WORKSHOP	
12:50 EDU-SESS	SION (EN)	EDU-SESSION (CZ)	CAREER DEVELOPMENT WORKSHOP								
CYTOMET	TRY METHODS FOR CELL BIOLOGY	KLINICKÁ CYTOMÉTRIE	WORKSHOP MASS CYTOMETRY								
13:30	Karel Souček Multiparametric analysis of cell response	FUNKČNÍ TESTY V LABORATOŘI KLINICKÉ CYTOMETRIE: Problematika detekce cytokinů	Jennifer Frahm Discovery and functional profiling with Mass Cytometry: from cell suspension to tissue								
14:00	Stanislav Drápela change Flow cytometric analysis of membrane transporters activity	v rutinní klinické laboratoři Martin Kováč Intracelulární detekce Th1, Th2	Tomas Kalina, Kanute Husse Multiparametric analysis of cell								
		cytokinů Michal Rataj	response	BC-5	TF-5	BD-5	MB-5	ITA-4	IBA-4	AC-4	
14:30	Radek Fedr Morphological analysis using fluorescent cell painting	Intracelulární detekce Th17 cytokinů Veronika Kanderová Detekce cytokinů pomocí tzv. bead assays Ondřei Pelák	What makes a good mass cytometry project? - panel discussion	Kaluza C – Opened and flexible software platform now certified as CE-IVD – demonstration of analyzing multicolor flow cytometry data (e.g. Clear-LLab 10c panels and much more)	Hands-on Attune NxT performance - focus on whole blood analysis	BD FACSCelesta™ – working together in perfect harmony	MACSQuant® Tyto Cell Sorter	Sony MA900 – High-end cell sorting has never been so easy	Fab-TACS® - cell separation reinvented	See what you've been missing - workshop on unique data analysis generated on Imaging Flow Cytometer	
		Detekce virus-specifických buněk Funkční cytometrická alergologická diagnostika Monika Knoppová Test aktivace bazofilů a jeho role při sledování desenzibilizace pacienta Lenka Sedláčková Test aktivace bazofilů a lékové	updated								
15:00	Coffee break	alergie Marcela Vlková			:					:	
EDU-SESS CYTOMET	SION (EN) FRY METHODS FOR CELL BIOLOGY	Proliferační test a jeho role v pozdní alergické reakci	PANEL DISCUSSION CORE FACILITY WORKSHOP	BC-6	TF-6	BD-6	MB-6				
15:30	Yacine Kharraz Spectral Cytometry advances in high dimensional data acquisition – The possibilities of a 24 colour panel on a 3 laser platform using the Cytek Aurora	(přecitlivělosti na léky) - doporučení HEMATOLOGICKÝ PACIENT V	Core facility management: Best practices and common standards, SOPs, quality control and quality assurance, pricing policies User support: User training (biosafety, basic and advanced instrument usage, data analysis software), project discussion, data troubleshooting, MIFlowCyt, FC user and staff cooperation and co-authorship	Dura Innovation – come in contact and discuss well-known Duraclone panels (RUO) but also the new ClearLLab 10 color panels (CE-IVD) or custom design service of DRY Multicolor Cocktails for flow cytometry	Hands-on Attune NxT performance - focus on small particles	BD FACSMelody™ – the most user-friendly cell sorter for everyone	MACSQuant® Analyzer 16				
17:00 18:00 20:00		CSAC member meeting	ESSCA-CSAC : platforma pro spolupráci evropských klinických cytometristů								
17:00	CONGRESS HALL FOYER POSTER SESSION II Authors of even-numbered poster				<u></u>	<u>i</u>	<u>i</u>		<u>i</u>	<u>i.</u>	

TUESDAY, September 24, 2019

		SCIENTIFIC PROGRAM	Λ	HANDS-ON WORKSHOPS							
	CONGRESS HALL	BIG HALL	SMALL HALL	LOBBY HALL Beckman Coulter	RED HALL Thermo Fisher Scientific	BLUE HALL Becton Dickinson	GLASS HALL Miltenyi Biotec / Biohem	YELLOW HALL I.T.A. Intertact	GREEN HALL IBA Lifesciences	COLOUR ROOM Accela	
ENARY	SESSION			BC-7	TF-7	BD-7	MB-7	ITA-5		AC-5	
	Bruno Paiva Flow cytometry for comprehensive monitoring of multiple myeloma			CytoFLEX LX - 6 lasers/21 colors instrument – best in class sensitivity, flexibility and performance for simple analysis even for complex multicolor experiments – introduction, technology, data analysis	Hands-on Attune NxT performance - focus on multicolour assays	Q&A session with BD Application Specialists		Sony SA3800 – discover the world of spectral cytometry for your everyday research		The new CellStream – Benchtop flow cytomter with unparelleled sensitivity and flexibility for cell and small particles analysis	
	The best poster award Short break										
	. SESSION	PARALLEL SESSION MICROFLUIDICS	EDU-SESSION (EN) DATA ANALYSIS								
	Marek Borský Peripheral blood of CLL patients is repopulated with complement resistant malignant cells one day after rituximab infusion	Antonín Hlaváček Detection of photon- upconversion luminescence from microdroplets in microfluidic chips	Tomáš Kalina Basic data analysis and presentation	BC-B	TF-E	BD-8	MB-8		IBA-5		
	Michaela Nováková Development of multiparameter flow cytometry combination for myeloid maturation	Michal Vašina High-throughput characterization of haloalkane dehalogenases by using capillary microfluidics	Karel Fišer Advanced flow cytometry data analysis - overview	Kaluza C – Opened and flexible software platform now certified as CE-IVD – demonstration of analyzing multicolor flow cytometry data (e.g. ClearLLab 10c panels and much more)	Hands-on Attune NxT performance - focus on plate assays	BD FACSCelesta™ knowledge shoot-out quiz to win 2-months on site demo	MACSQuant® Analyzer 16		Fab-TACS® - cell separation reinvented		
	Monika Holubová NK cells for the prevention and treatment of relapse after allogeneic haematopoietic stem cells transplantation	Martin Kizovský Detection of chloroalkanes by surface-enhanced Raman spectroscopy in microfluidic chips	Radek Fedr Spectral cytometry data		.i		i	t	<u>i</u>	i.	
10:50	Coffee break	•					-				
	Lucie Říhová Extramedullary expansion of myeloma plasma cell into CNS	Marek Černík Fabrication of a microfluidic chip to study the biology of vascular endothelium under flow conditions	Karel Fišer Automatic immunophenotyping (Case study)								
	Tereza Dekojová Dynamic changes of inhibitory KIR receptors after allogeneic HSCT	Tereza Klementová Optical micromanipulation and raman spectroscopy of cells in microfluidic systems	Tomáš Kalina Enhanced FCS files, the way biologist can integrate bioinfor- matics without programming (Case study)								
	Daniela Kužílková single cell profiling of signaltransduction pathways in pediatric t-cell acute lymphoblastic leukemia		Radek Fedr Cell plasticity spectral analysis (Case study)								
12:10	Lunch										

PLATINUM PARTNERS











GOLD PARTNER





SILVER PARTNERS





















