	Wednesday 23 <sup>rd</sup> Sept	ember
Single	e Objective LSFM	
_	sored by ASI	Session Chair: Chris Dunsby
14:00	Introduction	
14:05	High-speed in-vivo 3D microscopy across scales	Invited Speaker: Elizabeth Hillman
	17	Columbia University
14:20	eSPIM: Light-sheet microscopy for cell biology	Invited Speaker: Bo Huang
	3 17 37	UCSF San Francisco
14:35	Single-objective selective-volume illumination	Kevin Keomanee-Dizon
	microscopy enables high-contrast light-field imaging	University of Southern California
14:45	Spatial '-omics' in large samples using high numerical	Douglas Shepherd
	aperture oblique plane microscopy	Arizona State University
14:55	Session Quiz – Prize: A Foldoscope	
	resolution LSFM	
•	sored by the Royal Microscopical Society	Session Chair: Deidre Kavanagh
15:00	Fishing for leukocytes: Cellular and subcellular dynamics	Invited Speaker: Harriet Manley
13.00	of migrating immune cells revealed by in vivo lattice	Australian Regenerative Medicine
	light-sheet microscopy	Institute / Monash University
15:15	How biofilms form and single cells flow: insights	Invited Speaker: Boyang Qin
13.13	revealed by light sheet microscopy	Princeton University
15:30	Light Sheet Microscopy Coupled to an Atomic Force	Trinceton Oniversity
13.30	Microscope to Study the Engulfment Forces During	Invited Speaker: Megan Kern
	Phagocytosis	University of North Carolina
15:45	Lattice Light-Sheet at Warwick University	Helena Coker
13.73	Lactice Light-Sheet at Wal wick Offiversity	Warwick University
15:55	Session Quiz – Prize: €50 Voucher	T V al WICK Offiver Sity
16:00	BREAK	
		Session Chaire Empressuel Boymand
	Dany Teasers	Session Chair: Emmanuel Reynaud
16:30	<b>ASI</b> - Can you design an objective lens that works in air,	Platinum Sponsor
16:45	water, and oil? (and implications for light sheet)	Speaker: Jon Daniels
16:43	3i - Improving Cleared Tissue Microscope Imaging with	Platinum Sponsor
17:00	a Spatial Light Modulator <b>ZEISS</b> – The Lightsheet 7	Speaker: Dr. Edward Lachica
17:00	ZEISS – The Lightsheet /	Gold Sponsor
17.05	Lucenda Duden Lucenda Light Cheet Flooresses	Speaker: Jacques Paysan
17:05	Luxendo - Bruker Luxendo Light-Sheet Fluorescence	Gold Sponsor
17.10	Microscopy: Imaging Life Across Scales	Speaker: Malte Wachsmuth
17:10	Teledyne Photometrics - Introduction to the	Gold Sponsor
17.15	Kinetix sCMOS	Speaker: Rachit Mohindra and Phil Allen
17:15	<b>DRVISION</b> - Aivia live demonstration	Gold Sponsor
17.20	SVI I I I I I I I I I I I I I I I I I I	Speaker: Patrice Mascalchi
17:20	<b>SVI</b> - Huygens Fuser: fusion and deconvolution of all	Gold Sponsor
17.05	types of Light Sheet images made easy	Speaker: TBC
17:25	Inscoper - The new microscopy acquisition software	Gold Sponsor
		Speaker: Otmane Bouchareb
	Facility Perspectives	Session Chair: Gopi Shah
	sored by Teledyne Photometrics	·
17:30	Custom light sheet microscopy developments and	Invited Speaker: Martin Lenz
	applications in an imaging facility environment	CAIC Cambridge
17:45	LSFM underscores the variability and complexity of yolk	Invited Speaker: María Marsal
	microtubule organization during early zebrafish	SLN ICFO Barcelona
	development	
18:00	TALK TITLE TBC	Invited Speaker: Teng-Leong Chew
18:15	The User`s Guide to the Light-sheet Galaxy	Alessandro Ciccarelli
		The Francis Crick Institute
18:25	Session Quiz – Prize: T-shirt and Cap	
18:30	END OF DAY	

	Thursda	y 24 <sup>th</sup> S	Septe	mber			
Image	e Processing	•	•		Chaim Bahant Hasa		
_	sored by AIVIA DR Vision			Session	Chair: Robert Haase	3	
14:00	Introduction						
14:02	Tips for adapting to LISH image visualizat	ng to LISH image visualization and analysis		Invited Speaker: Holly C Gibbs Texas A&M University			
14:14	Spatially varying deconvolution for light-sheet microscopy		scopy	Bogdan Toader University of Cambridge			
14:26	On Flow and Form: Building tools to visualise morphogenesis			Invited Speaker: Nico Scherf TU Dresden			
14:38	TALK TITLE TO BE CONFIRMED			Invited Speaker: Loic Royer			
14:50	Session Quiz and Q&A Round – Prize: A	Grabhic Tab	let				
	Sessions						
	n Chairs: Emmanuel Reynaud and De	eidre Kava	nagh		Community Session	on	
15:00	3i - The Benefits of Lattice LightSheet	Platinum S	Platinum Sponsor Speaker: Dr. Glen Redford				
15:30	ZEISS - The Lightsheet 7	Gold Spons	sor				
15:45	Luxendo - LSFM Beyond Imaging – Manipulation Of Your Sample With Light	Gold Spons Speakers:	Speakers: Björn Eismann  And Malta Wachsmith  Kate McDole – Life		THE SAMPLE PREI Montserrat Coll – Clea Kate McDole – Life San	learing Samples	
16:00	Teledyne Photmetrics - Kinetix sCMOS for Light Sheet Microscopy	Gold Spons Speaker: F and Dr. Pl	Rachit Mo	hindra	Emmanuel Reynaud – 3 holders	3D printed	
16:15	BREAK						
<b>Poste</b>	ers						
Prize fo	or best poster: €100, Runner up: €50						
16:30	Poster session 1: Single Objective LSFM and Image Processing	16:30	prepar	ation, o	2: Sample ptical clearing, on- I LSFM cytometry	CHAT ROOM	
Combined selective plane illumination microscopy and FRAP maps intranuclear diffusion of NLS-GFP – Chad Hobson, The University of North Carolina		obtain i whole l	Light sheet-based flow cytometer with ability to obtain images and retrieve objects from the whole blood – Daniil Bratashov, Saratov State University				
_	heet Fluorescence Microscopy – Abdullahi e, University of Ilorin	Light-sh	Light-sheet flow cytometry – Sonia Laguna, Universidad Carlos III de Madrid				
Wide field-of-view volumetric imaging by a mesoscopic oblique plane microscopy with low numerical aperture objectives – Wenjun Shao, Boston University		Optimi large ar <i>Gavryus</i>	Optimized dual-view light sheet microscopy for large area cleared specimens – Vladislav Gavryusev, University of Florence / European Laboratory for Non-linear Spectroscopy			Let's talk LISH, Meet and	
Oblique plane microscopy-based 3D plate-reader investigation of control of cell shape by Rhoregulatory proteins in distinct microenvironments – Nathan Curry, Imperial College London		Protoc	Augmenting the Range of Compatible Clearing Protocols for the Zeiss Lightsheet Z.I – Joseph Sall, NYU Grossman School of Medicine			Greet, Make new	
Dual-view oblique plane microscopy – Hugh Sparks, Imperial College London		platforr	Design of light-sheet fluorescence imaging platform for axon tracing over entire brains – Kevin Takasaki, Allen Institute for Brain Science			acronyms, and SO much more	
3D Quantification of Zebrafish Brain Vascular Architecture of Light Sheet Fluorescence Microscopy Datasets – Elisabeth Kugler, The University of Sheffield		for eve	Yes, we can clear this: a tissue clearing toolbox for every organ – Monika Pawlowska, University of Warsaw				
microso organo	E: A robust and comparable 3D copy image quality metric for cleared ids — Friedrich Preußer, Max Delbrück Center ecular Medicine in the Helmholtz Association						

The heart in 4D: novel tools to quantify ECM	
dynamics and tissue morphology in cardiac	
development – Juliana Sanchez Posada, University of	
Sheffield	

Sneffield	d		
-	le Preparation, Optical Clearing and Expansion		
Micro	oscopy	Session Chair: Montserrat Coll	
Spons	sored by Cairn Research		
17:30	Physical expansion of cells and tissues: Development and	Invited Speaker: Ruixuan Gao	
	application to light-sheet fluorescence microscopy	MIT / HHMI Janelia	
17:50	Holistic Three-dimensional Cellular Mapping of Mammalian	Invited Speakers Shan Thee	
	Organs by Tissue Clearing and Light-sheet Fluorescence	Invited Speaker: Shan Zhao	
	Microscopy	Helmholtz Zentrum München	
18:10	FLASH: removing chemical barriers for volume	Jorge Almagro	
	immunofluorescence of whole intact organs	The Francis Crick Institute	
18:17	Characterization of neocortical angioarchitecture across	Sven Hildebrand	
	layers and areas in the human brain	Maastricht University	
18:24	Session Quiz – Prize: An Aeropress		
18:30	END OF DAY		

Friday 25 <sup>th</sup> September						
	sheet engineering and LSFN			Session Chair: Reto F	iolka	
<b>S</b> pons	ored by the LSFM Commun	nity		Session Chair. Reto Flora		
14:00	Introduction					
14:05				Invited Speaker: Elena Remacha IGBMC/Leica Microsystems		
14:20	Hybrid open-top light-sheet microscopy for multi-scale imaging of cleared tissues			Invited Speaker: Adam Glaser University of Washington		
14:35	Light Sheet Microscopy with LED	illumination		Gianmaria Calisesi		
14:45 The benchtop mesoSPIM – a com		npact and versatile open-		Politecnico di Milano Fabian Voigt		
	source light-sheet microscope for imaging large cleared			Brain Research Institute, University of Zurich		
14:55	Session Quiz – Prize: A signed copy	of the "Light Sheet Fluorescend		nce Microscopy" Wiley VCH		
	Sessions			Community Session	on	
	n Chairs: Emmanuel Reyna	ud and Chr	ris Dunsby	Community Costs		
15:00	ASI – A Framework for Designing Light Sheet Microscopes	Platinum Sponsor Speaker: Melissa Glidewell				
15:30	<b>DRVISION</b> – Aivia Live	Gold Sponsor Speaker: Patrice Mascalchi		Johanna Bischof: Euro-B		
	Demonstration			Open access to microscopes, highlighting new technologies - and more		
15:45	SVI - Huygens Fuser: fusion	Gold Sponsor Speaker: TBC		Andrey Andreev Raw	data issues:	
	and deconvolution of all types of Light Sheet images made easy			Andrey Andreev: Raw data issues: we need better data plumbing		
16:00	Inscoper - The new	Gold Sponsor		Jan Huisken: The Flamingo project:		
		icroscopy acquisition Speaker: Otmane		modular and shareable light sheet		
16:15	software BREAK	Bouchareb		microscopes		
Poste						
	or best poster: €100, Runner up	o: €50				
TTIZCTO	Poster session 3: Light					
16:30	sheet engineering and	16:30		ion 4: Developmental	CHAT	
	LSFM hardware		biology, org	ganoids/embryos	ROOM	
The imp	portance of the excitation light		•			
	ition state for the optimization of	Multinucleat	ed HIV-I-infect	ted T cells exhibit		
•	al levels in two-photon light-			and frequent virus-		
•	nicroscopy – Giuseppe de Vito,			ions – Menelaos		
	ty of Florence / European	•	University of Ver			
	ory for Non-Linear Spectroscopy	,	, .			
UC2 Lig	ght sheet microscope: From an	D.: d T	J., Daliahla Val			
education	on tool to a biological application	Primed Track: Reliable Volumetric Single-cell Tracking and Lineage Tracing of Living Specimen with Dual-labeling Approaches – Periklis Pantazis,				
	ra Maršíková, Leibniz Institute of					
	: Technology / Friedrich Schiller	Imperial Colle		iles – i elikiis i ulituzis,		
Universi		•				
	-on-chip" specific light sheet	Exploring left-right symmetry of somites through multiview light sheet microscopy – Sundar Naganathan, École Polytechnique Fédérale de				
	cence microscope for					
	rization investigation – Caroline					
	n, University Grenoble Alpes	Lausanne	a dan d	all aammuusissetees see 1	-	
	rized Light-Sheet Microscope	Contact area—dependent cell communications and				
	tive control of optical paths – n Bakas, University of Strathclyde	the morphological invariance of ascidian embryogenesis – Léo Guignard, Max Delbrück Center, Germany				
Video-rate remote refocusing through continuous oscillation of a deformable mirror – Terry Wright, Imperial College		Loss of Sox4 Impacts Early Ocular Development – Rebecca Petersen, University of Kentucky				
London	1 0 3 1 2222		, - · · · · · · · · · · · · · · · · · ·	. ,		

On-Chip high-throughput LSFM analysis	hip high-throughput LSFM analysis A possible mechanism for n			
of single cancer cells – Federico Sala,	pattern formation in spherical cell sheets -			
Politecnico di Milano	Stephanie Höhn, University of Cambridge			
Development and application of a				
flexible light sheet fluorescence	Using light-sheet fluorescence microscopy to			
microscope for high speed 2D and 3D	identify anatomical structu			
imaging of calcium dynamics in	infectious laryngotracheitis virus in chicken tissues			
cardiomyocytes – Liuba Dvinskikh,	– Matthew Smallridge, The U			
Imperial College London				
Optimal Laser Pulse Repetition Rate for	luca sin s actin duna unica thu	aughaug inggasaian		
Fast In Vivo Imaging using Multiphoton	Imaging actin dynamics thr			
Light-sheet Microscopy – Vincent Maioli,	membrane system development – Tom O'Sullivan – University of Birmingham / University of Leicester			
Institut Polytechnique de Paris	Oniversity of Birmingham / O	illiversity of Leicester		
Quantification and analysis		of three-dimensional		
	shape changes during epith			
	Jana Fuhrmann, Max Planck Institute of Molecular Cell			
Biology and Genetics				
Developmental biology, organoids/embryos		Session Chair: Kate M	cDole	
17:30 Visualizing and quantifying cell beh	naviors and states across	Invited Speaker: Kat		
scales in mammalian embryos		Hadjantonakis		
		Sloan Kettering Institute	ring Institute	
17:47 Illuminating arthropod developme	Illuminating arthropod development with light-sheet		s	
microscopy		Pavlopolous		
	IMBB-FORTH			
18:04 Designing an inverted light-sheet i	Designing an inverted light-sheet microscope for long term			
imaging of organoids				
	How embryonic hearts pump: insights from multi-scale			
microscopy in zebrafish	microscopy in zebrafish		esearch	
18:24 Session Quiz and Q&A – Prize : A	VR Set			
18:30 END OF DAY				