

PROGRAM - MONDAY 9th APRIL

13:00-13:30 **Welcome** *Amphitheater BDD*
Organizing Committee: Awtar Krishan, Zosia Maciorowski,
 Sophie Novault, Milena Hasan

Lectures

13:30-14:30 **Basics of Flow Cytometry: How a Cytometer Works** *Salles Annexes 1 and 2*
 Dr Matthias Schiemann

14:30-15:30 **Basics of Multicolor Flow Cytometry**
 Dr Sara De Biasi

Lecture

13:30-15:30 **High Dimensional Data Analysis Introduction** *Amphitheater BDD*
 Dr Yvan Saey

15:30-15:45 **Coffee break** *Hall BDD*

Lectures

15:45-16:45 **Make Your Own Cytometer** *Amphitheater BDD*
 Dr Bill Telford

16:45-17:30 **Basic Data Analysis**
 Dr Sara De Biasi

Practical modules HDA (High Dimensional Analysis)

Group A *Cours Anglaise 1*

15:45-16:35 **R basics** - Dr Quentin Barbier

Group B *Cours Anglaise 2*

15:45-16:35 **Discovery of Cytobank** - Dr Hervé Luche

Group B *Cours Anglaise 2*




16:40-17:30 **R basics** - Dr Quentin Barbier

Group A *Cours Anglaise 1*

16:40-17:30 **Discovery of Cytobank** - Dr Hervé Luche

18:00-19:00 **Welcome Cocktail** *Green Café*



PROGRAM - TUESDAY 10th APRIL - Morning

Parallel sessions	Lectures	
	09:00-10:00	HDA Raw Data Analysis and Quality Control <i>Salles Annexes 3 and 4</i> Dr Yvan Saeys
	10:00-11:00	HDA Supervised Analysis - Dr Hervé Luche
Parallel sessions	Lectures	
	09:00-10:00	Basic Quality Control - Dr Sara De Biasi <i>Amphitheater BDD</i>
	10:00-11:00	Basics Of Cell Sorting - Dr Matthias Schiemann and Dr Geoffrey Osborne
	11:00-11:15	Coffee break <i>Hall BDD</i>
Parallel sessions	Lectures	
	11:15-12:00	Apoptosis - Dr Bill Telford <i>Amphitheater BDD</i>
	12:00-13:00	Cells Cycle and Proliferation - Dr Paul Wallace
	Practical modules HDA (High Dimensional Analysis)	
		Group A <i>Cours Anglaise 1</i>
	11:15-12:05	Raw data Analysis and QC Dr Hervé Luche and Dr Quentin Barbier
		Group B <i>Cours Anglaise 2</i>
	11:15-12:05	Supervised Analysis Tools Dr Hervé Luche and Dr Quentin Barbier
		Group B <i>Cours Anglaise 2</i>
	12:05-13:00	Raw data Analysis and QC Dr Hervé Luche and Dr Quentin Barbier
	Group A <i>Cours Anglaise 1</i>	
12:05-13:00	Supervised Analysis Tools Dr Hervé Luche and Dr Quentin Barbier	
	13:00-14:00	Lunch <i>Hall BDD</i>
Lunchtime Sponsor Presentations <i>Salles Annexes 2, 3 and 4</i>		
13:00-13:30	BioRad 	
13:30-13:45	Propel 	
13:45-14:00	Miltenyi 	

PROGRAM - TUESDAY 10th APRIL - Afternoon

Parallel sessions	Practical Modules		
	14:00-15:45	Basics of Multicolor Flow Cytometry Dr Paresh Jain, Dr Sara De Biasi and Dr John Wotherspoon	<u>Salles Annexes 1, 2 and 3</u>
	14:00-15:45	Basics of Cell Sorting Dr Matthias Schiemann and Dr Geoffrey Osborne	<u>Flow Lab room 6A-11</u>
	14:00-15:45	Cell Cycle Dr Awtar Krishan	<u>Immunology Lab - Flow Lab room 6A-31</u> ZE5
		Group A	<u>Cours Anglaise 1</u>
	14:00-15:45	HDA Shiny Scaffold - Dr Hervé Luche	
		Group B	<u>Cours Anglaise 2</u>
	14:00-15:45	HDA FlowSOM - Dr Yvan Saeys	
	Tutorial		
	14:00-15:45	mRNA Flow Cytometry Dr Paul Wallace	<u>Amphitheater BDD</u>
15:45-16:00	Coffee break	<u>Hall BDD</u>	
Parallel sessions	Practical modules		
	16:00-17:45	Basics of Multicolor Flow Cytometry Dr Paresh Jain, Dr Sara De Biasi and Dr John Wotherspoon	<u>Salles Annexes 1, 2 and 3</u>
	16:00-17:45	Basics of Cell Sorting Dr Matthias Schiemann and Dr Geoffrey Osborne	<u>Flow Lab room 6A-11</u>
	16:00-17:45	Make Your Own Cytometer Dr Bill Telford	<u>Salle Annexe 4</u>
	16:00-17:45	Proliferation Dr Paul Wallace	<u>Immunology Lab - Flow Lab room 6A-31</u> ZE5
		Group B	<u>Cours Anglaise 2</u>
	16:00-17:45	HDA Shiny Scaffold - Dr Hervé Luche	
		Group A	<u>Cours Anglaise 1</u>
	16:00-17:45	HDA FlowSOM - Dr Yvan Saeys	
	Tutorial		
16:00-17:45	Spectral Flow Cytometry Dr Maria Jaimes	<u>Amphitheater BDD</u>	



PROGRAM - WEDNESDAY 11th APRIL - Morning

Parallel sessions	Lecture	
	09:00-11:00	Panel Design Tools Dr Paresh Jain <i>Amphitheater BDD</i>
	Practical modules	
	09:00-11:00	Group A <i>Salle Annexe 1</i> HDA OneSense/Hypergate Dr Quentin Barbier
Parallel sessions	Group B <i>Salle Annexe 2</i>	
	09:00-11:00	HDA metaclustering Dr Hervé Luche
	11:00-11:15 Coffee break <i>Hall BDD</i>	
	Lecture	
Parallel sessions	11:15-13:00	High Dimensional Panel Design Dr John Wotherspoon <i>Amphitheater BDD</i>
	Lectures	
	11:15-12:00	Imaging Flow Cytometry - Dr Ziv Porat <i>Salles Annexes 3 and 4</i>
	12:00-13:00	Advanced Cell Sorting - Dr Matthias Schiemann and Dr Geoffrey Osborne
	Practical modules	
	11:15-13:00	Group B <i>Salle Annexe 2</i> HDA OneSense/Hypergate Dr Quentin Barbier
	Group A <i>Salle Annexe 1</i>	
	11:15-13:00	HDA metaclustering Dr Hervé Luche
13:00-14:00 Lunch <i>Hall BDD</i>		
Lunchtime Sponsor Presentations <i>Salles Annexes 2, 3 and 4</i>		
13:00-13:30	Cytek 	
13:30-13:45	Merck 	
13:45-14:00	BioLegend 	

PROGRAM - WEDNESDAY 11th APRIL - Afternoon

Parallel sessions	Lectures	
	14:00-15:00	HDA <i>Amphitheater BDD</i> Learning in vivo: How Data Science and Cytomics are connecting Cell Biology and medicine - Dr Jonathan Irish
	15:00-15:45	Metaclustering - Dr Hervé Luche
	Practical modules	
	14:00-15:45	Multicolor Panel Evaluation <i>Cours Anglaise 1 and 2</i> Dr Cyril Wilmes
	14:00-15:45	Advanced Cell Sorting <i>Flow Lab room 6A-11</i> Dr Matthias Schiemann and Dr Geoffrey Osborne
	14:00-15:45	Intracellular Staining <i>Immunology Lab - Salle Annexe 1</i> Sue Chow and Dr David Hedley <i>Cytoflex</i>
14:00-15:45	Apoptosis <i>Immunology Lab - Flow Lab room 6A-31</i> Dr Bill Telford <i>ZE5</i>	
14:00-15:45	Imaging Flow Cytometry <i>Flow Lab room 6A-11</i> Dr Ziv Porat	
15:45-16:00	Coffee break <i>Hall BDD</i>	
Parallel sessions	Lectures	
	16:00-16:45	HDA integrative data analysis - Dr Antonio Cosma <i>Amphitheater BDD</i>
	16:45-17:30	Putting It All Together: What to use when - Dr Jonathan Irish
	Practical modules	
	16:00-17:30	Multicolor Panel Evaluation <i>Cours Anglaise 1 and 2</i> Dr Cyril Wilmes
	16:00-17:30	Advanced Cell Sorting <i>Flow Lab room 6A-11</i> Dr Matthias Schiemann and Dr Geoffrey Osborne
	16:00-17:30	Intracellular Staining <i>Immunology Lab - Salle Annexe 1</i> Sue Chow and Dr David Hedley <i>Cytoflex</i>
	16:00-17:30	Panel Design <i>Salles Annexes 3 and 4</i> Dr Parsh Jain, Dr Sara De Biasi and Dr John Wotherspoon
	16:00-17:30	Imaging Flow Cytometry <i>Flow Lab room 6A-11</i> Dr Ziv Porat
	16:00-17:30	Spectral Flow Cytometry <i>Flow lab room 6A-31</i> Dr Maria Jaimes <i>Aurora</i>



PROGRAM - THURSDAY 12th APRIL - Morning

Parallel sessions	Practical modules	
	09:00-11:00	Panel Design <i>Salles Annexes 3 and 4</i> Dr Parsh Jain, Dr Sara De Biasi and Dr John Wotherspoon
	09:00-11:00	Imaging Flow Cytometry - Dr Ziv Porat <i>Flow Lab room 6A-11</i>
	09:00-11:00	Apoptosis <i>Salle Annexe 2</i> Dr Bill Telford <i>Novocyte</i>
	09:00-11:00	Intracellular Staining <i>Immunology Lab - Salle Annexe 1</i> Sue Chow and Dr David Hedley <i>Cytoflex</i>
	09:00-11:00	Advanced Cell Sorting <i>Flow Lab room 6A-11</i> Dr Matthias Schiemann and Dr Geoffrey Osborne
		Group A <i>Cours Anglaise 1</i>
	09:00-11:00	HDA Cytobank Unsupervised - Dr Jonathan Irish
		Group B <i>Cours Anglaise 2</i>
	09:00-11:00	HDA Intergrative - Dr Hervé Luche
	11:00-11:15 Coffee break <i>Hall BDD</i>	
Parallel sessions	Lecture	
	11:15-13:00	Data Evaluation, Panel Troubleshooting <i>Amphitheater BDD</i> Dr Maria Jaimes, Dr Paresh Jain, Dr Sara De Biasi, Dr John Wotherspoon and Dr Christoph Freier
	Practical modules	
	11:15-13:00	Imaging Flow Cytometry - Dr Ziv Porat <i>Flow Lab room 6A-11</i>
	11:15-13:00	Intracellular Staining <i>Immunology Lab - Salle Annexe 1</i> Sue Chow and Dr David Hedley <i>Cytoflex</i>
		Group B <i>Cours Anglaise 2</i>
	11:15-13:00	HDA Cytobank Unsupervised - Dr Jonathan Irish
		Group A <i>Cours Anglaise 1</i>
	11:15-13:00	HDA Intergrative - Dr Hervé Luche
		13:00-14:00 Lunch <i>Hall BDD</i>
Lunchtime Sponsor Presentations <i>Salles Annexes 2, 3 and 4</i>		
13:00-13:30	Acea / Ozyme  	
13:30-14:00	ThermoFisher 	

PROGRAM - THURSDAY 12th APRIL - Afternoon

Parallel sessions	Practical modules		
	14:00-15:30	Basic data analysis Flowjo Dr Christoph Freier	<u>Salle Annexe 4</u>
	14:00-15:30	Imaging Flow Cytometry Dr Ziv Porat	<u>Flow Lab room 6A-11</u>
	14:00-15:30	Spectral Flow Cytometry Dr Maria Jaimes	<u>Flow Lab room 6A-31</u> Aurora
	14:00-15:30	Intracellular Staining Sue Chow and Dr David Hedley	<u>Immunology Lab - Salle Annexe 1</u> Cytoflex
		Group A	<u>Cours Anglaise 1</u>
	14:00-15:30	HDA Cell Identification Dr Jonathan Irish	
		Group B	<u>Cours Anglaise 2</u>
	14:00-15:30	HDA Cytosplore Dr Vincent van Unen	
	15:45-16:00 Coffee break		
Parallel sessions	Practical modules		
	16:00-17:30	Imaging Flow Cytometry Dr Ziv Porat	<u>Flow Lab room 6A-11</u>
	16:00-17:30	Spectral Flow Cytometry Dr Maria Jaimes	<u>Flow Lab room 6A-31</u> Aurora
	16:00-17:30	Intracellular Staining Sue Chow and Dr David Hedley	<u>Immunology Lab - Salle Annexe 1</u> Cytoflex
	16:00-17:30	Advanced Cell Sorting Dr Matthias Schiemann and Dr Geoffrey Osborne	<u>Flow Lab room 6A-11</u>
		Group B	<u>Cours Anglaise 2</u>
	16:00-17:30	HDA Cell Identification Dr Jonathan Irish	
		Group A	<u>Cours Anglaise 1</u>
	16:00-17:30	HDA Cytosplore Dr Vincent van Unen	

PROGRAM - FRIDAY 13th APRIL

Lectures		
Parallel sessions	09:00-11:00 High dimensional data analysis using standard commercial software - Dr Christoph Freier (Flowjo), Dr Benoit Dupont (Kaluza) and Dr Manuel Martinez (FCS Express) <i>Amphitheater BDD</i>	
	09:00-11:00 Review Multicolor Panel Troubleshooting <i>Salles Annexes 3 and 4</i> Dr Paresh Jain, Dr Sara De Biasi and Dr John Wotherspoon	
	Practical modules	
	09:00-11:00 Cell Cycle <i>Immunology Lab - Salle Annexe 2</i> Dr Awtar Krishan <i>Novocyte</i>	
09:00-11:00 Advanced Cell Sorting <i>Flow Lab room 6A-11</i> Dr Matthias Schiemann and Dr Geoffrey Osborne		
09:00-11:00 Make Your Own Cytometer - Dr Bill Telford <i>Salle Annexe 1</i>		
11:00-11:15 Coffee break <i>Hall BDD</i>		
Practical modules		
Parallel sessions	11:15-13:00 Advanced Cell Sorting <i>Flow Lab room 6A-11</i> Dr Matthias Schiemann and Dr Geoffrey Osborne	
	11:15-13:00 High dimensional data analysis using standard commercial software - Dr Christoph Freier (Flowjo), Dr Benoit Dupont (Kaluza) and Dr Manuel Martinez (FCS Express) <i>Salles Annexes 1, 2 and 4</i>	
	11:15-13:00 Proliferation <i>Immunology Lab - Salle Annexe 3</i> Dr Paul Wallace <i>Attune</i>	
	13:00-14:00 Lunch <i>Hall BDD</i>	
Lunchtime Sponsor Presentations <i>Salles Annexes 2, 3 and 4</i>		
13:00-13:30 Becton Dickinson 		
13:30-14:00 Beckman Coulter 		
Lecture and round table		
14:00-14:45 Standardization - Zosia Maciorowski and all faculty <i>Amphitheater BDD</i>		
Lectures		
14:45-15:45 Building A High Content, Precision Immunology Program To Support Cancer Trials - Dr Pratip Chattopadhyay (remote) <i>Amphitheater BDD</i>		
15:45-16:00 Coffee break <i>Hall BDD</i>		
16:00-16:45 Imaging mass Cytometry - Dr David Hedley		
16:45-17:15 Closing and Certificates		