



April 9-13, 2018

Paris ISAC

Cytometry Workshop



in partnership with Institut Pasteur

| Monday 9th April | | |
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| 13:00-13:30 | Opening and Welcome - Amphi BDD | |
| 13:30 - 15:30 | Lecture Basics of flow cytometry <i>Matthias Schiemann</i> Salles Annexes 1+2 | Lecture HDA High dimensional data analysis introduction <i>Yvan Saeys</i> Amphi BDD |
| | Lecture Basics of multicolor <i>Sara De Biasi</i> Salles Annexes 1+2 | |
| 15:30-15:45 | Coffee | |
| 15:45- 17:45 | Lecture Make your Own Cytometer <i>Bill Telford</i> - Amphi BDD | High Dimensional Data Analysis Hands on Cours anglaises 1 and 2 |
| | Lecture Basic data analysis <i>Sara De Biasi</i> Amphi BDD | |
| 18:00 | Welcome Cocktail - Green Café | |

Tuesday 10th April

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| 9:00 - 10:00 | Lecture Basic QC <i>Sara De Biasi</i> - Amphi BDD | Lecture HDA raw data analysis and QC <i>Yvan Saeys</i> - Salles Annexes 3 and 4 | | | | |
| 10:00 - 11:00 | Lecture Basics of Cell Sorting <i>M. Schiemann / G. Osborne</i> Amphi BDD | Lecture HDA supervised analysis <i>Hervé Luche</i> Salles Annexes 3 and 4 | | | | |
| 11:00 - 11:15 | <i>Coffee</i> | | | | | |
| 11:15 - 12:00 | Lecture Apoptosis <i>Bill Telford</i> Amphi BDD | High Dimensional Data Analysis Hands on Cours Anglaises 1 and 2 | | | | |
| 12:00 - 13:00 | Lecture Cell cycle/proliferation <i>Paul Wallace</i> - Amphi BDD | | | | | |
| 13:00-14:00 | <i>Lunch and sponsor presentations</i> BioRad, Propel, Miltenyi | | | | | |
| 14:00 - 15:45 | Lab Basic multicolor Group A <i>Paresh Jain, Sara De Biasi and John Wotherspoon</i> Attune - Novocyte - Cytoflex Salles Annexes 1, 2 and 3 | High Dimensional Data Analysis Hands on cours Anglaises 1 and 2 | Tutorial mRNA Flow Cytometry <i>Paul Wallace</i> Amphi BDD | Lab Basic Cell Sorting 1 <i>M. Schiemann / G. Osborne</i> Flow lab 6A-11 | Lab Cell Cycle 1 <i>Awtar Krishan</i> Immunology lab ZE5 - Flow lab 6A-31 | |
| 15:45-16:00 | <i>Coffee</i> | | | | | |
| 16:00- 17:30 | Lab Basic multicolor Group B <i>Paresh Jain, Sara De Biasi and John Wotherspoon</i> Attune - Novocyte - Cytoflex Salles Annexes 1, 2 and 3 | High Dimensional Data Analysis Hands on cours Anglaises 1 and 2 | Tutorial Spectral Flow Cytometry <i>Maria Jaimes</i> Amphi BDD | Lab Basic Cell Sorting 2 <i>M. Schiemann / G. Osborne</i> Flow lab 6A-11 | Lab Proliferation 1 <i>Paul Wallace</i> Immunology lab ZE5 - Flow lab 6A-31 | Make Your Own Cytometer 1 <i>Bill Telford</i> Salle Annexe 4 |
| 17:30 | Happy hour at local café | | | | | |

Wednesday 11th April

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|---------------|--|---|--|--|--|---|--|
| 9:00 - 10:00 | Lecture Panel design tools mandatory for panel design track <i>Paresh Jain</i> Amphi BDD | | High Dimensional Data Analysis Hands on Salles Annexes 1 and 2 | | | | |
| 10:00 - 11:00 | | | | | | | |
| 11:00 - 11:15 | <i>Coffee</i> | | | | | | |
| 11:15 - 12:00 | Lecture High dimensional panel design mandatory for panel design track <i>John Wotherspoon</i> Amphi BDD | Lecture Imaging Flow Cytometry <i>Ziv Porat</i> Salles Annexes 3 and 4 | High Dimensional Data Analysis Hands on Salles Annexes 1 and 2 | | | | |
| 12:00 - 13:00 | | Lecture Advanced Cell Sorting <i>G. Osborne and M. Schiemann</i> Salles Annexes 3 and 4 | | | | | |
| 13:00-14:00 | <i>Lunch and Vendor presentations</i> Cytex - Merck - BioLegend | | | | | | |
| 14:00 - 15:45 | Hands on panel design Group A <i>Cyril Wilmes</i> Cours Anglaises 1 and 2 | | Lecture HDA Learning in vivo: how data science and cytomics are connecting cell biology and medicine <i>Jonathan Irish</i> - Amphi BDD | Lab Advanced Cell Sorting 1 Part 1 <i>G. Osborne / M. Schiemann</i> Flow lab 6A-11 | Lab Intracellular Staining 1 Part 1 <i>Sue Chow and David Hedley</i> Immunology lab | Lab Apoptosis 1 <i>Bill Telford</i> Immunology lab and ZE5 - Flow lab 6A-31 | Lab Imaging Flow Cytometry <i>Ziv Porat</i> Flow lab 6A-11 |
| | | | Lecture Metacluster analysis <i>Hervé Luche</i> Amphi BDD | | | | |
| 15:45-16:00 | <i>Coffee</i> | | | | | | |
| 16:00- 17:30 | Hands on panel design Group B <i>Cyril Wilmes</i> Cours Anglaises 1 and 2 | Design a Panel work Group A <i>Parsh Jain, Sara De Biasi and John Wotherspoon</i> Salles Annexes 3 and 4 | Lecture Integrative analysis <i>Antonio Cosma</i> Amphi BDD | Lab Advanced Cell Sorting 1 Part 2 <i>G. Osborne / M. Schiemann</i> Flow lab 6A-11 | Lab Intracellular Staining 1 Part 2 <i>Sue Chow and David Hedley</i> Cytoflex Salle annex 1 | Lab Spectral Flow Cytometry <i>Maria Jaimes</i> Aurora - Flow lab 6A-31 | Lab Imaging Flow Cytometry apoptosis <i>Ziv Porat / Telford</i> Flow lab 6A-11 |
| | | | Lecture Putting It All Together what to use when? <i>Jonathan Irish</i> - Amphi BDD | | | | |

Thursday 12th April

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|---------------|---|--|---|--|---|--|
| 9:00 - 10:00 | Design a Panel work Group B <i>Parsh Jain, Sara De Biasi and John Wotherspoon</i> Salles Annexes 3 and 4 | Lab Imaging Flow Cytometry <i>Ziv Porat</i> Flow lab 6A-11 | Lab Intracellular Staining 2 Part 1 <i>Sue Chow and David Hedley</i> Immunology lab | Lab Apoptosis 2 <i>Bill Telford</i> Immunology lab and Novocyte - Salle Annexe 2 | | High Dimensional Data Analysis Hands on Cours Anglaises 1 and 2 |
| 10:00 - 11:00 | | | | | | |
| 11:00 - 11:15 | <i>coffee</i> | | | | | |
| 11:15 - 12:00 | Lecture How To Assess Your Data <i>Maria Jaimes</i> Troubleshooting Panels <i>P. Jain, S. De Biasi, C. Wilmes</i> | Lab Imaging Flow Cytometry apoptosis <i>Ziv Porat / Telford</i> Flow lab 6A-11 | Lab Intracellular Staining 3 Part 2 <i>Sue Chow and David Hedley</i> Cytoflex Salle Annexe 1 | | | High Dimensional Data Analysis Hands on Cours Anglaises 1 and 2 |
| 12:00 - 13:00 | <i>J. Wotherspoon and C. Freier</i> Salles Annexes 2, 3 and 4 | | | | | |
| 13:00-14:00 | <i>Lunch and sponsor presentations</i> Acea/Ozyme and ThermoFisher | | | | | |
| 14:00 - 15:45 | Lab Spectral Flow Cytometry <i>Maria Jaimes</i> Aurora - Flow lab 6A-31 | Lab Imaging Flow Cytometry <i>Ziv Porat</i> Flow lab 6A-11 | Lab Intracellular Staining 3 Part 1 <i>Sue Chow and David Hedley</i> Immunology lab | Lab Advanced Cell Sorting 2 Part 1 <i>G. Osborne / M. Schiemann</i> Flow lab 6A-11 | Hands on basic data analysis <i>Christoph Freier</i> Flowjo Salle Annexe 4 | High Dimensional Data Analysis Hands on Cours Anglaises 1 and 2 |
| 15:45-16:00 | <i>coffee</i> | | | | | |
| 16:00- 17:30 | Lab Spectral Flow Cytometry <i>Maria Jaimes</i> Aurora - Flow lab 6A-31 | Lab Imaging Flow Cytometry <i>Ziv Porat</i> Flow lab 6A-11 | Lab Intracellular Staining 3 Part 2 <i>Sue Chow and David Hedley</i> Cytoflex Salle annexe 1 | Lab Advanced Cell Sorting 2 Part 2 <i>G. Osborne / M. Schiemann</i> Flow lab 6A-11 | | High Dimensional Data Analysis Hands on Cours Anglaises 1 and 2 |

Friday 13th April

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|---------------|---|--|---|---|---|
| 9:00 - 10:00 | <p style="text-align: center;">Lab Cell Cycle 1 <i>Awtar Krishan</i> Immunology lab Novocyte - Salle Annexe 2</p> | <p style="text-align: center;">Lectures High Dimensional commercial software - 40 minutes each Flowjo, Kaluza, FCS Express Amphi BDD</p> | <p style="text-align: center;">lab Advanced Cell Sorting 3 Part 1 <i>G. Osborne / M. Schiemann</i> Flow lab 6A-11</p> | <p style="text-align: center;">Review Troubleshooting Multicolor <i>P. Jain, S. De Biasi, C. Wilmes and J. Wotherspoon</i> Salles Annexes 3 and 4</p> | <p style="text-align: center;">Make Your Own Cytometer <i>Bill Telford</i> Salle Annexe 1</p> |
| 10:00 - 11:00 | | | | | |
| 11:00 - 11:15 | <i>Coffee</i> | | | | |
| 11:15 - 12:00 | <p style="text-align: center;">Lab Proliferation 1 <i>Paul Wallace</i> Immunology lab Attune - Salle Annexe 3</p> | <p style="text-align: center;">Hands on High Dimensional commercial software 2 x 1 hour session Salles Annexes 1 and 2</p> | <p style="text-align: center;">Lab Advanced Cell Sorting 3 Part 1 <i>G. Osborne / M. Schiemann</i> Flow lab 6A-11</p> | | |
| 12:00 - 13:00 | | | | | |
| 13:00-14:00 | <i>Lunch and sponsor presentations</i> BD Biosciences and Beckman Coulter | | | | |
| 14:00 - 15:45 | <p style="text-align: center;">Lecture /Round table Standardization <i>All faculty</i> Amphi BDD</p> | | | | |
| | <p style="text-align: center;">High Content Precision Immunology <i>Pratip Chattopadhyay (remote)</i> Amphi BDD</p> | | | | |
| 15:45-16:00 | <i>Coffee</i> | | | | |
| 16:00- 17:30 | <p style="text-align: center;">Imaging Mass Cytometry <i>David Hedley</i> Amphi BDD</p> | | | | |
| | <p style="text-align: center;">Certificates / Closing Amphi BDD</p> | | | | |