

Monday, August 28th**Introduction**

| Time | Title | Location |
|---------------|---|-----------------|
| 09:30 - 10:00 | Registration and coffee <i>All</i> | L0-131 |
| 10:00 - 11:00 | Introduction of participants and organisers <i>Jillian Bracht, All</i> | L0-131 |
| 11:00 - 11:15 | Summer school program overview, group division <i>Jillian Bracht, All</i> | L0-131 |
| 11:15 - 12:30 | Introduction to EVs and flow cytometry <i>Rienk Nieuwland</i> <i>Compendium: 2.1</i> | L0-131 |
| 12:30 - 13:30 | Lunch | L0-131 |
| 13:30 - 14:30 | Flow cytometry hardware <i>Edwin van der Pol</i> <i>Compendium: 2.3</i> | L0-131 |
| 14:30 - 14:45 | Lab rules and safety <i>Chi Hau</i> | L0-131 |
| 14:45 - 15:15 | Coffee break | L0-131 |
| 15:15 - 16:00 | Blood collection, preparation, storage, and reporting <i>Jillian Bracht</i> <i>Compendium: 2.1, 3, 8</i> <i>MIFlowCytEV: 1</i> | L0-131 |
| 16:00 - 16:30 | Group 1: Introduction lab and flow cytometers <i>Chi Hau, Mandy Los</i> | F1-205 |
| | Group 2: Sample collection, preparation and storage <i>Jillian Bracht</i> | L0-131 |
| 16:30-17:00 | Group 1: Sample collection, preparation and storage <i>Jillian Bracht</i> | L0-131 |
| | Group 2: Introduction lab and flow cytometers <i>Chi Hau, Mandy Los</i> | F1-205 |
| 17:00 - 17:15 | Closing remarks <i>Jillian Bracht</i> | L0-131 |

Tuesday, August 29th FCM set-up

| Time | Title | Location |
|---------------|---|------------------|
| 09:00 - 09:30 | Coffee, recap and questions <i>Jillian Bracht, All</i> | L0-131 |
| 09:30 - 10:30 | Detector and trigger threshold settings <i>Edwin van der Pol</i> <i>Compendium: 6</i> <i>MIFlowCytEV: 4</i> | L0-131 |
| 10:30 - 11:00 | Coffee Break | L0-131 |
| 11:00 - 12:00 | Swarm detection <i>Naomi Buntsma</i> <i>Compendium: 2.3.3.4, 3.1, 5.7</i> <i>MIFlowCytEV: 3.7</i> | L0-131 |
| 12:00 - 13:00 | Group 1: Lunch Group 2: Practicum trigger threshold and detector settings <i>Chi Hau, Mandy Los</i> | L0-131 F1-205 |
| 13:00 - 14:00 | Group 1: Practicum trigger threshold and detector settings <i>Chi Hau, Mandy Los</i> Group 2: Lunch | F1-205 L0-131 |
| 14:00 - 15:00 | Group 1: Data processing <i>Edwin van der Pol, Jillian Bracht</i> Group 2: Practicum swarm detection <i>Chi Hau, Mandy Los</i> | L0-131 F1-205 |
| 15:00 - 15:30 | Coffee break | L0-131 |
| 15:30 - 16:30 | Group 1: Practicum swarm detection <i>Chi Hau, Mandy Los</i> Group 2: Data processing <i>Edwin van der Pol, Jillian Bracht</i> | F1-205 L0-131 |
| 16:30 - 17:30 | Data processing <i>Edwin van der Pol, Jillian Bracht</i> | L0-131 |
| 17:30 - 17:45 | Closing remarks <i>Edwin van der Pol, Jillian Bracht</i> | L0-131 |

Wednesday, August 30th

Calibration

| Time | Title | Location |
|----------------------|---|-----------------|
| 09:00 - 09:30 | Coffee, recap and questions <i>Edwin van der Pol, All</i> | L0-131 |
| 09:30 - 10:30 | Fluorescence and light scatter calibration <i>Britta Bettin</i> <i>Compendium: 2.2, 2.5, 6.3, 7</i> <i>MIFlowCytEV: 4.3, 4.4, 5, 6</i> | L0-131 |
| 10:30 - 11:00 | Coffee Break | L0-131 |
| 11:00 - 12:00 | Flow rate calibration <i>Edwin van der Pol</i> <i>Compendium: 6.2</i> <i>MIFlowCytEV: 4.2, 6.3</i> | L0-131 |
| 12:00 - 13:00 | Group 1: Practicum calibrate flow rate, fluorescence, light scattering <i>Chi Hau, Mandy Los</i> | F1-205 |
| | Group 2: Lunch | L0-131 |
| 13:00 - 14:00 | Group 1: Lunch | L0-131 |
| | Group 2: Practicum calibrate flow rate, fluorescence, light scattering <i>Chi Hau, Mandy Los</i> | F1-205 |
| 14:00 - 15:00 | Data processing <i>Rienk Nieuwland, Jillian Bracht</i> | L0-131 |
| 15:00 - 15:30 | Coffee break | L0-131 |
| 15:30 - 16:30 | Limit of detection and cross calibration <i>Edwin van der Pol</i> <i>Compendium: 2.1.1, 2.3.3, 6.1.2, 6.3.1.3</i> <i>MIFlowCytEV: 4.1, 6.2</i> | L0-131 |
| 16:30 - 17:00 | Closing remarks (homework, divide groups assay controls) <i>Rienk Nieuwland, All</i> | L0-131 |

Thursday, August 31st

Assay controls and sample preparation

| Time | Title | Location |
|----------------------|---|-----------------|
| 09:00 - 09:30 | Coffee, recap and questions <i>Jillian Bracht, All</i> | L0-131 |
| 9:30 - 10:00 | Selection of reagents <i>Agustin Enciso Martinez</i> <i>Compendium: 4.1</i> | L0-131 |
| 10:00 - 10:30 | Preparation of homework <i>Jillian Bracht</i> | L0-131 |
| 10:30 - 11:00 | Coffee Break | L0-131 |
| 11:00 - 12:00 | 5-minute presentations by participants about assay controls <i>All</i> | L0-131 |
| 12:00 - 12:30 | Examples of assay controls <i>Mandy Los</i> <i>Compendium: 5</i> <i>MIFlowCytEV: 3</i> | L0-131 |
| 12:30 - 13:30 | Lunch | L0-131 |
| 13:30 - 14:30 | Determine optimal dilution of reagents (titration) <i>Edwin van der Pol, Chi Hau</i> <i>Compendium: 3.1, 4.2, 5.2</i> | L0-131 |
| 14:30 - 21:00 | Social program Amsterdam (with dinner) | |

Friday, September 1st

Sample preparation and data reporting

| Time | Title | Location |
|----------------------|--|-----------------|
| 09:00 - 09:30 | Coffee, recap and questions <i>Edwin van der Pol, All</i> | L0-131 |
| 09:30 - 11:00 | Group 1: Literature assignment <i>Agustin Enciso Martinez, Edwin van der Pol, Jillian Bracht</i> | L0-131 |
| | Group 2: Practicum prepare assay controls <i>Chi Hau, Mandy Los</i> | F1-205 |
| 11:00 - 12:30 | Group 1: Practicum prepare assay controls <i>Chi Hau, Mandy Los</i> | F1-205 |
| | Group 2: Literature assignment <i>Agustin Enciso Martinez, Edwin van der Pol, Jillian Bracht</i> | L0-131 |
| 12:30 - 13:00 | Lunch | L0-131 |
| 13:00 - 15:00 | Process data, apply calibrations and present results <i>Edwin van der Pol, Jillian Bracht</i> | L0-131 |
| 15:00 - 15:30 | Coffee Break | L0-131 |
| 15:30 - 16:30 | Data reporting <i>Edwin van der Pol, Jillian Bracht</i> <i>Compendium: 8</i> <i>MIFlowCytEV: 6, 7</i> | L0-131 |
| 16:30 - 17:00 | Closing remarks <i>All</i> | L0-131 |