

## Monday, July 8<sup>th</sup>

### Introduction

| Time          | Title  | Location |
|---------------|--|----------|
| 09:30 - 10:00 | Registration and coffee<br><i>All</i>  | L0-131   |
| 10:00 - 10:45 | Introduction<br><i>Jillian Bracht, All</i>   | L0-131   |
| 10:45 - 12:00 | Introduction to EVs and flow cytometry<br><i>Rienk Nieuwland</i><br><i>Compendium: 2.1</i>   | L0-131   |
| 12:00 - 12:30 | Flow cytometry hardware 1.0<br><i>Edwin van der Pol</i><br><i>Compendium: 2.3</i>  | L0-131   |
| 12:30 - 13:30 | Lunch  | L0-131   |
| 13:30 - 14:30 | Flow cytometry hardware 2.0<br><i>Edwin van der Pol</i><br><i>Compendium: 2.3</i>  | L0-131   |
| 14:30 - 14:45 | Lab rules and safety<br><i>Chi Hau</i>   | L0-131   |
| 14:45 - 15:15 | Coffee break   | L0-131   |
| 15:15 - 16:15 | <b>Group 1:</b> Introduction lab and flow cytometers<br><i>Chi Hau, Joyce Mulders</i>  | F1-205   |
|               | <b>Group 2:</b> Sample collection, preparation and storage<br><i>Jillian Bracht</i><br><i>Compendium: 2.1, 3, 8</i><br><i>MIFlowCytEV: 1</i> | L0-131   |
| 16:15-17:15   | <b>Group 1:</b> Sample collection, preparation and storage<br><i>Jillian Bracht</i><br><i>Compendium: 2.1, 3, 8</i><br><i>MIFlowCytEV: 1</i> | L0-131   |
|               | <b>Group 2:</b> Introduction lab and flow cytometers<br><i>Chi Hau, Joyce Mulders</i>  | F1-205   |
| 17:15 - 17:30 | Closing remarks<br><i>Jillian Bracht</i>   | L0-131   |

**Tuesday, July 9<sup>th</sup>**

**FCM set-up**

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

**Wednesday, July 10<sup>th</sup>**

**Calibration**

| <b>Time</b>          | <b>Title</b>  | <b>Location</b> |
|----------------------|---|-----------------|
| <b>09:00 - 09:30</b> | Coffee, recap and questions<br><i>Edwin van der Pol, All</i>  | L0-131          |
| <b>09:30 - 10:30</b> | Flow rate calibration<br><i>Kirill Buiankin</i><br><i>Compendium: 6.2</i><br><i>MIFlowCytEV: 4.2, 6.3</i>   | L0-131          |
| <b>10:30 - 11:00</b> | Coffee Break  | L0-131          |
| <b>11:00 - 12:00</b> | Fluorescence and light scatter calibration<br><i>Britta Bettin</i><br><i>Compendium: 2.2, 2.5, 6.3, 7</i><br><i>MIFlowCytEV: 4.3, 4.4, 5, 6</i>         | L0-131          |
| <b>12:00 - 13:00</b> | <b>Group 1:</b> Practicum 3 calibrate flow rate, fluorescence, light scattering<br><i>Chi Hau, Joyce Mulders</i>  | F1-205          |
|                      | <b>Group 2:</b> Lunch   | L0-131          |
| <b>13:00 - 14:00</b> | <b>Group 1:</b> Lunch   | L0-131          |
|                      | <b>Group 2:</b> Practicum 3 calibrate flow rate, fluorescence, light scattering<br><i>Chi Hau, Joyce Mulders</i>  | F1-205          |
| <b>14:00 - 15:00</b> | Data processing: calibrations<br><i>Edwin van der Pol, Britta Bettin</i>  | L0-131          |
| <b>15:00 - 15:30</b> | Coffee break  | L0-131          |
| <b>15:30 - 16:30</b> | Limit of detection and cross calibration<br><i>Edwin van der Pol</i><br><i>Compendium: 2.1.1, 2.3.3, 6.1.2, 6.3.1.3</i><br><i>MIFlowCytEV: 4.1, 6.2</i> | L0-131          |
| <b>16:30 - 17:00</b> | Closing remarks (homework, divide groups assay controls)<br><i>Edwin van der Pol, All</i>   | L0-131          |

**Thursday, July 11<sup>th</sup>**

**Assay controls and sample preparation**

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

**Friday, July 12<sup>th</sup>**

**The full FCM workflow**

| <b>Time</b>          | <b>Title</b>   | <b>Location</b> |
|----------------------|--|-----------------|
| <b>09:00 - 09:30</b> | Coffee, recap and questions<br><i>Edwin van der Pol, All</i>                                     | L0-131          |
| <b>09:30 - 11:00</b> | <b>Group 1:</b> Data processing: assignment<br><i>Edwin van der Pol, Jillian Bracht</i>          | L0-131          |
|                      | <b>Group 2:</b> Practicum 4 prepare assay controls<br><i>Chi Hau, Joyce Mulders</i>              | F1-205          |
| <b>11:00 - 12:30</b> | <b>Group 1:</b> Practicum 4 prepare assay controls<br><i>Chi Hau, Joyce Mulders</i>              | F1-205          |
|                      | <b>Group 2:</b> Data processing: assignment<br><i>Edwin van der Pol, Jillian Bracht</i>          | L0-131          |
| <b>12:30 - 13:30</b> | Lunch  | L0-131          |
| <b>13:30 - 15:00</b> | Process data, apply calibrations and present results<br><i>Edwin van der Pol, Jillian Bracht</i> | L0-131          |
| <b>15:00 - 15:30</b> | Coffee Break   | L0-131          |
| <b>15:30 - 16:30</b> | Data reporting<br><i>Edwin van der Pol</i><br><i>Compendium: 8</i><br><i>MIFlowCytEV: 6, 7</i>   | L0-131          |
| <b>16:30 - 17:00</b> | Closing remarks<br><i>All</i>  | L0-131          |