

Workshop

- Applied Flow Cytometry – (pre)clinical hematological analyses

Dag 1 - Monday 16 October 2017

Location: Laboratory of Hematology, UZ of Brussels, Paviljoen Louis Tielemans, level 0, Laarbeeklaan 101 - 1090 Brussel.

9:00-12:00: Diagnosis of leukemia and lymphoma: situation of flow cytometry in the diagnosis and follow-up of these diseases in humans with attention to the techniques used.

13:00-16:00: Practical aspects: explanation in the laboratorium by the responsible of the flowcytometer.

Dag 2 - Tuesday 17 October 2017

Location: Laboratory of Biochemistry (morning) and Immunology (afternoon), Faculty of Veterinary Medicine, University of Ghent, Salisburylaan 133 - 9820 Merelbeke - High Building, Unit A & B – 2th resp. 3th floor.

9:30-12:00: Detection of selected cytokines in mice serum (submitted by preclinical infection model) using a commercial kit (Luminex) for cytometer bead array analysis.

Practical aspects: explanation on the 3 laser instrument by the responsible of the Cytoflex flow cytometer with attention to the pitfalls in multiplex bead analysis.

13:00-16:00: Purifying of 4 different types of immune cells (cytotoxic T cells, NK cells, monocytes and pDCs) from the PBMC fraction of porcine blood.

Practical aspects: explanation of the sorting process on the instrument by the responsible of the FACSaria III celsorter including 'tips and tricks' to perform an efficient sort.

Dag 3 - Wednesday 18 October 2017

Location: Laboratory of Experimental Hematology, Vaccine & Infectious Disease Institute (VAXINFECTIO), Faculty of Medicine and Health Sciences, University of Antwerp, Wilrijkstraat 10 - 2650 Edegem.

10:00-12:00: Detection of antigen specific T cells using intracellular cytokine determination (ICS).

13:00-16:00: Practical aspects: performing protocol (fix/ perm) + antibody staining, followed by flowcytometric analysis with attention for pitfalls at ICS.