



Save the Date 'MB&C2017' course 23rd & 24th of March 2017

Molecular Biology and Cytometry Course

The course is intended for all who work with molecular diagnostics, (flow)cytometry and microscopy techniques in a clinical laboratory. The training will review the actual techniques and illustrate their use in daily practice. We will focus both on the technical aspects and the clinical and scientific basis they relate to. We will mainly use the English language. Workshops will be highly interactive, either in English or Dutch dependent on the participants.

Info and registration form: coming soon (mid-january 2017)

**Course Layout (preliminary)
Thursday March 23rd 2017**

- 8.00 - 9.00 hrs: Welcome coffee & registration
 - 9.00 - 10.30 hrs: Plenary session
 - Welcome
 - Techniques in Molecular Diagnostics present and future
 - Techniques in Flow Cytometry present and future
 - 11.00 - 12.30 hrs: Parallel session Molecular Biology
 - Pitfalls in quantitative measurement using real time PCR
 - Review in molecular hematology : cancer stem cells and tumor heterogeneity
 - 11.00 - 12.30 hrs: Parallel session flowcytometry
 - Flow cytometry as screening tool for PID
 - Review in clinical Hematology : Overview of the new WHO classification of hematological malignancies
 - 13.45 - 16.45 hrs:
 - Workshop Session 1
 - Workshop Session 2
 - 16.45 - 17.15 hrs: Plenary session: Ebola, Zika, what's next?
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Course Layout (preliminary)

Friday March 24th 2017

- 8.00 - 9.00 hrs: Welcome coffee & registration
- 9.00 - 10.30 hrs: Plenary session
 - Cell therapy
 - CAR-T cells
 - Highlight session: Liquid Biopsies
- 11.00 - 12.30 hrs: Parallel session Molecular Biology
 - Pitfalls in Next Generation Sequencing
 - DNA analysis in reproductive medicine
 - Prenatal testing
- 11.00 - 12.30 hrs: Parallel session in flowcytometry
 - Update on T-reg, what's its clinical use?
 - Validation of reagents and mixes in hematology
 - Pitfalls in flow cytometry
- 13.45 - 16.45 hrs:
 - Workshop Session 1
 - Workshop Session 2
- 16.45 - 17.15 hrs: Plenary session: Current and future

Workshops in Microscopy and Flowcytometry

- Microscopy and image processing
 - Set-up, calibration, compensation and assay standardisation of a flowcytometer
 - Quality assurance in flow cytometry: discussion of guidelines
 - Set-up of a Euroflow standardized protocol and analysis with Infinicyt
 - MRD analysis by flow cytometry
 - Flow cytometric screening and immune monitoring in primary immune deficiencies
 - Differential diagnosis of B-LPD
 - Flow cytometry of tissue biopsies
 - Microparticles and platelets
 - Acute leukaemias: diagnostic workup and case presentations
 - Blood and BM differentiation by flow cytometry Cell sorting
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Workshops in Molecular Biology

- Fish on cells and tissues
 - DNA and RNA extraction from cfDNA and mutation analysis
 - PCR and QPCR: design, parameters for optimisation and troubleshooting
 - Bio-informatics (hematology/pathology/genetics)
 - Next Generation Sequencing
 - Mutation screening in clinical genetics
 - Mutation screening in myeloid malignancies by NGS
 - Automation in molecular diagnostic Laboratory Interpretation of clonality analysis (Ig & TCR) and IgH hypermutation analysis
 - Statistical methods in validation reports and QC
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This course is organised by:

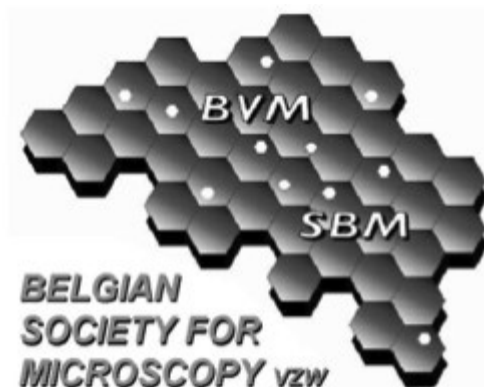
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