

Pre-analytical sample processing in biobanking

Practical laboratory Course

Date: May 19-20, 2016

DRAFT AGENDA



Course objective :

This course will provide in-depth theoretical insight and practical experience concerning variables during pre-analytical sample processing that are critical determinants for the quality of biological samples and further molecular analyses.

Course content :

- Assessment of critical pre-analytical steps in sample processing from patient to storage to analysis
- Influence of different sample stabilization procedures (tissue: formalin fixation, PAXgene fixation, snap freezing; blood: for analysis of free circulating DNA; urine: for metabolome analysis)
- Influence of different storage conditions
- Isolation of biomolecules
- Performance of quality control assays (RIN, spectrophotometer, electrophoresis, qRT-PCR)
- Documentation and data management
- Quality management (SOPs, ISO and CEN standards)
- Biosafety and biosecurity
- Ethical and legal requirements

Course structure :

Lecture (L) ; Demonstration (D)

Thursday – May 19, 2016 : 14H30 – 17H45

Location

Meeting Room : Pavillon J Etage J1 salle de réunion - Hématologie-Biochimie - Hôpital Pasteur BP69 - 30 avenue de la voie romaine, 06001 Nice

Laboratory : Laboratoire de pathologie Clinique et expérimentale (LPCE) Pavillon J - Hôpital Pasteur (LPCE) Pavillon J - Hôpital Pasteur BP69 - 30 avenue de la voie romaine, 06001 Nice

Time	Topic	Speaker/Demonstrator	Room
14:00 15:00	Welcome Aim & Agenda of the 2 nd part of the course Introduction	Georges Dagher Paul Hofman Kurt Zatloukal	Meeting Room
15:00 15:30	CEN/TC technical specification – documentation requirements	Cornelia Stumptner	Meeting Room
15:30 16:00	Group 1: Demo “Tissue collection” <i>(receipt, cutting, freezing, formalin and PAXgene fixation, documentation)</i> Group 2: Demo “Blood collection for ccfDNA, Urine collection for metabolomics <i>(processing)</i> Group 2: Coffee break	Cornelia Stumptner Martina Loibner	Laboratory Room Laboratory Room <i>Meeting Room</i>
16:00 16:30	Group 1: Demo “Blood collection for ccfDNA, Urine collection for metabolomics Group 2: Coffee break Group 2: Demo “Tissue collection” <i>(receipt, cutting, freezing, formalin and PAXgene fixation, documentation)</i>	Martina Loibner Cornelia Stumptner	Laboratory Room <i>Meeting Room</i> Laboratory Room
16:30 17:30	Visit the routine pathology <i>(frozen sections, macroscopy, liquid biopsies)</i>	Paul Hofman	Laboratory Room
17:30 17:45	Review Day 1, Questions!	Paul Hofman	Meeting room

Friday– May 20, 2016 : 08:30 –15:00

Location

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Time	Topic	Speaker/Demonstrator	Room
08:30	Welcome	Paul Hofman	Meeting Room
09:30	Aim and Agenda of the Day Short overview	Marius Ilié	
09:30	Group 1 Demo Acid nucleic extraction & quality control (RNA)	Marius Ilié	Laboratory Room
11:00	Group 2 Demo Acid nucleic extraction & quality control (DNA)	Paul Hofman LPCE team	
11:00	Group 1 Demo Acid nucleic extraction & quality control (RNA)	Marius Ilié	Laboratory Room
12:30	Group 2 Demo Acid nucleic extraction & quality control (DNA)	Paul Hofman LPCE team	
12:30	Lunch time		
14:00			
14:30	Review day 2 Questions	Marius Ilié	Meeting Room
15:30		LPCE team	

Organizers

- **Kurt ZATLOUKAL**, national node director BBMRI.at
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- **Cornelia STUMPTNER**, project manager BBMRI.at
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- **Paul HOFMAN, PU-PH** Inserm U1081/CNRS UMR 7284, Medical University of Nice
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- **Georges DAGHER**, national node director BBMRI.fr, BIOBANQUES georges.dagher@inserm.fr
- **Markus PASTERK**, administrative director BBMRI-ERIC - admin.dir@bbmri-eric.eu