

Content Description	Format	ration (n	Time
<b>Feb. 8, 2017 (Wednesday) ::: Sample Collection - Freezing &amp; Fixation - Preparation of Sections for RNA Isolation :::</b>			
<i>Registration</i>			00:30 08:00-08:30
Welcome & Introduction (K. Zatloukal)	L	00:20	08:30-08:50
Course programme and organization (C. Stumptner)	L	00:10	08:50-09:00
The case for sample preanalytics, quality and data management (K. Zatloukal)	L	00:30	09:00-09:30
Pre-analytical impact of ischemia and fixation (K. Zatloukal)	L	00:30	09:30-10:00
CEN/TS Molecular in vitro diagnostic examinations - Specifications for pre-examination processes: What they are - how to implement (C. Stumptner)	L	00:20	10:00-10:20
<i>Coffee Break</i>		00:15	10:20-10:35
<b>Tissue sample collection, processing and documentation acc. to CEN/TS:</b> Cutting of tissue, snap-freezing and fixation in formaline and PAXgene	P	01:00	10:35-11:35
<b>Blood (for cfDNA) and urine (for metabolome) sample collection, processing, documentation</b>	D	00:35	11:35-12:10
<i>Lunch Break</i>	-	00:50	12:10-13:00
Quality control for pre-analytical procedures (K. Zatloukal)	L	00:45	13:00-13:45
<b>Preparation of frozen tissue sections for RNA isolation</b> (incl. staining and evaluation)	D+P	01:00	13:45-14:45
<b>Preparation of FFPE/PFPE tissue sections for RNA isolation</b> (incl. selection of tissue region - 2 methods)	D+P	01:00	14:45-15:45
<i>Coffee Break</i>	-	00:20	15:45-16:05
<b>Staining, evaluation &amp; marking of FFPE/PFPE sections</b>	D+P	01:00	16:05-17:05
<b>The BBMRI "CEN/TS Self-Assessment Tool":</b> Check your conformity with the CEN/TS & ISO standards	D+P	00:25	17:05-17:30
<b>Feb. 9, 2017 (Thursday) ::: RNA Isolation, Quantification &amp; Quality Control :::</b>			
Review day 1, agenda day 2 (K. Zatloukal)	L	00:30	08:00-08:30
<b>RNA isolation methods:</b> - Method/group 1: TRIzol - from frozen tissue - Method/group 2: Column method - from FFPE tissue - Method/group 3: Column method - from PFPE tissue	P,D	04:00	08:30-12:30
<b>RNA quantification &amp; quality control assays 1:</b> Measurement using NanoDrop (C, F/P RNA)	P,D	00:15	12:30-12:45
<i>Lunch Break</i>	-	00:45	12:45-13:30
Site visit - Routine pathology processes: grossing, frozen section, embedding	Visit	00:40	13:30-14:10
Impact of tissue preservation and storage on sample quality (C. Viertler)	L	00:30	14:10-14:40
Blood pre-analytics and implementation of CEN/TS into QM (H. Haslacher)	L	01:00	14:40-15:40
<i>Coffee Break</i>	-	00:20	15:40-16:00
<b>RNA quality control assays 2 &amp; 3:</b> - Method 3: RNA integrity (RIN - Bioanalyzer: sample & chip preparation, Bioanalyzer start - Method 2: Amplifiability - different lenght amplicon qRT-PCR	D	00:45	16:00-17:30
<b>Evening event (dinner)</b>			approx. 19:00
<b>Feb. 10, 2017 (Friday) ::: RNA Quality Control :::</b>			
Review day 2, agenda day 3 (K. Zatloukal)	L	00:15	08:00-08:15
Presentation & site visit - Biobank Graz	Visit	03:00	08:15-11:15
BBMRI-ERIC QM Strategy for European biobanks (A. Wutte)	L	00:30	11:15-11:45
Implementation of CEN/TS at VetBiobank Wien - A best practise example (I. Walter)	L	01:00	11:45-12:45
<i>Lunch Break</i>	-	00:45	12:45-13:30
<b>RNA quality control methods: Discussion of the results</b> - Method 1: Purity by absorption measurement (NanoDrop) - Method 2: RNA integrity (RIN - Bioanalyzer) - Method 3: Amplifiability - different lenght amplicon qRT-PCR	D+P	01:30	13:30-14:00 14:00-14:30 14:30-15:00
<b>RNA quality control methods: Direct comparison of the results generated from the course samples</b> (K. Zatloukal)	L	00:30	15:00-15:30
<i>Discussion and feedback</i>	-	00:30	15:30-16:00
<b>Format:</b> L = Lecture; P = Pracial laboratory work of participants; D = Demonstration in the laboratory			
<b>Lectures given by:</b>		<b>Instructors in the laboratory:</b>	
Univ.-Prof. Dr. Kurt Zatloukal (Medical University of Graz, Dpt. of Pathology, National Node Director BBMRI.at)		- Iris Kufferath, grad. Biomedical Analyst	
Dr. med. univ. Helmuth Haslacher, BSc BA (Medical University of Vienna, QM-Coordinator MedUni Wien Biobank KILM)		- Daniela Pabst, grad. Biomedical Analyst	
Univ.-Prof. Mag. Ingrid Walter (Univ. of Veterinary Medicine, Vienna, Head of VetBiobank)		- Christine Ulz, BSc MSc	
Dr. med. Univ. Christian Viertler (Medical University of Graz, Dpt. of Pathology, Pathologist)		- Ulrike Fackelmann	
Mag. Andrea Wutte (BBMRI-ERIC, Quality Manager)		- Mag. Gintare Siaulyte	
Prof. Dr. Berthold Huppertz (Medical University of Graz, Biobank Graz, CEO Biobank Graz)		- Sylvia Schauer, grad. Biomedical Analyst	
Mag. (FH) Cornelia Stumptner (Medical University of Graz, BBMRI.at and Dpt. of Pathology, Project Manager BBMRI.at)		- Mag. Martina Loibner	
		- Mag. (FH) Cornelia Stumptner	