Basic Application Training for Real Time PCR (LightCycler System) Agenda

Time	Friday (22-06-2012)	Saturday (23-06-2012)	Sunday (24-06-2012)
09:00-09:30	**Welcome** • Introduction / Training Aims • PCR Basics (if necessary) • Real Time PCR Applications	**Short Review**	**Short Review**
09:30-10:30	**Presentation** • The New LC System for Real Time PCR • Software 4.1 • General Overview • LC2.0 Disposables , Kits (reagents)	**Experimental Work** • Detection of human (CYP2C9*2 and CYP2C9*3) SNPs • Pipetting and Programming (3 Groupwork) • Start Run	**Experimental Work** • Swine Inf A /H1N1 Detection Set • Pipetting and Programming (3 Group work) • Start Run • Presentation and Qualitative Detection
10:30-10:45	**Break**		
10:45-12:00	**LightCycler Basics (**Presentation) • Assay Formats & Dyes **Presentation / Demonstration** • Programming • Templates & Macros	**Lab Work** **Melting Curve Analysis** • Simulate T_M-Calling Experiment **SW Demo: Export of Files** **SW Demo: Import of files**	**Analysis of Results by Participants** **Type of Analysis** • Absolute Quantification & Qualitative detection.
12:15-13:15	**Lunch Break**		
13:15-15:15	**Experimental Work** • Apply Macro and Run LC Color Compensation Set for the Multiplex HybProbe Probe Technology • Analysis and Create a CCC Object	**Experimental Work** • Analysis of Experiments (CYP2C9*2*3) SNPs • Identify Genotypes • Presentation of Results by Participants **Type of Analysis** • Melting Curve Analysis (Genotyping -TM-Calling)	**Lab Work** • Apply the Absolute Quantification, Qualitative Detection and T_M-Calling analysis for the Run • Apply the Analysis by Participants (each)
15:15-15:30	**Break**		
15:30-16:45	**Experimental Work** **DNA Extraction**	**Experimental Work** • Apply Macro and Run LC Color Compensation • Set for the Multiplex TaqMan Probe Technology • Analysis and Create a CCC Object • Apply the H1N1 assay Compensation	**Real Time PCR Troubleshooting** • General troubleshooting for the LightCycler2.0 as a Real Time PCR System • Interpretation of troubleshooting for the Assays done

16:45-17:00	**Summary - Open Questions**	**Summary - Open Questions**	**Summary - Open Questions**	