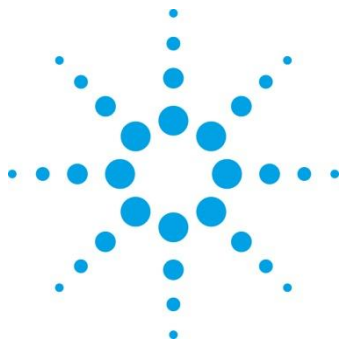


WE MAKE IT. *You make it happen.*
OpenGenomics

Agilent Technologies
Stratagene Mx3005P



2 days Agilent Hands-on qPCR course

17-18 March 2011

TATAA Biocenter – Odinsgatan 28- Gothenburg- Sweden

AGENDA

Day 1

09:00 – 10:30	Introduction to PCR and qPCR theory and applications. <i>Basic PCR theory, the theory of qPCR, applications and possibilities of qPCR, detection technologies, basic data analysis</i>
10:45 – 11:45	Primer and probe design <i>Primer design, the problem of primer-dimers and how to minimize them, design of Taqman probes, tools and databases</i>
11:45 – 12:45	Lunch
12:45 – 13:30	Optimization of qPCR protocols <i>Optimization of qPCR reactions: reagents, temperature protocols, enhancers, multiplex qPCR</i>
13:30 – 14:30	Quality control of RNA and DNA theory <i>Stability, concentration measurements, purity and integrity evaluation</i>
14:45 – 15:30	Spectroscopic quality and quantity determination of RNA samples
15:30-16:30	Quality control of RNA using the Agilent Bioanalyzer
16:30-17:00	Discussion and Q&A



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Day 2

09:00 – 10:15	Relative quantification <i>Normalization, basic quantification theory, the delta-delta Ct method, efficiency corrections</i>
10:15 – 11:00	Absolute quantification <i>Choosing an appropriate standard, the properties of standard curves</i>
11:00 – 12:15	Experiment comparing quantification methods
12:15 – 13:15	Lunch
13:15 – 14:00	Validation of assays <i>Investigative vs. diagnostic PCR, LOD, LOQ, accuracy</i>
14:00 – 14:30	Introduction to the MIQE guidelines <i>What are the MIQE guidelines, how can they be used?</i>
14:45-15:30	Quantification calculation examples <i>Examples of how results from real-time qPCR experiments are calculated</i>
15:30-16:45	Analysis of experimental data with calculations
16:45-17:00	Discussion and Q&A
17:00	End of course day

The information is subject to change without notice

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