

Schedule for TATAA Biocenter qPCR Application Workshop at the qPCR 2007 Event 29th – 30th March 2007

2-day qPCR Sample Preparation / Immuno-qPCR Module

29th March 2007 - Sample Preparation

- 09.00-10.15 Introduction and overview of sample preparation
-Sampling
-Common techniques
-Inhibitors
-Difficult matrices
-Overview of methods
- 10.30-12.30 Purification of xxx tissue
-Preparation of samples
-Lysis and homogenisation using TissueLyzer
-RNA purification using Qiagen/Fuji/Magnetic beads
- 12.30-13.30 **LUNCH**
- 13.30-14.30 Quality control of purified DNA/RNA
-Stability - degradation
-Integrity
-Purity
-Concentration determination
-Storage
- 14.30-15.30 Quality control of purified material
-Absorption measurement using NanoDrop
-RNA integrity on Biorad Experion
- 15.30-16.30 Advanced methods
-Single-cell
-Cells-to-cDNA and Cells-to Signal
-Laser microdissection
- 16.45-17.15 Troubleshooting
- 17.15-17.30 Discussion and Q&A
- 17.30 End of qPCR course day 1.

TATAA Biocenter Germany

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30th March 2007 - Immuno-qPCR

- 09.00-10.30 Immunoassays
- Background
- The immuno-qPCR assay
- Different assemblages
- Practical considerations
- Today's experimental setup
- 10.30-10.45 Coffee break
- 10.45-12.15 **Immuno-qPCR experiment quantifying PSA**
- Preparation of dilution series
- Preincubation of PSA and antibody/DNA-conjugate
- Washing of wells
- Immobilization of protein and conjugate mix in PCR-plate.
- 12.15-13.15 **LUNCH**
- 13.15-14.00 -Washing of wells.
-Adding of PCR mastermix
-qPCR
- 14.00-14.45 Optimization of immuno-qPCR
Selected applications of immuno-qPCR.
- 14.45-15.00 Coffee break
- 15.00-15.45 How to analyse immuno-qPCR data
Troubleshooting
- 16.00-16.30 **Analysis of the performed immuno-qPCR experiment.**
- 16.30-17.00 Discussion & questions
- 17.00 End of qPCR course day 2.

Lunch and coffee are included in the course fee. The courses are focused on practical issues for qPCR and are partly hands-on, performed by the course participants in the lab (marked in blue).

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