



QPCR COURSES - SPRING 2013



2 DAYS SINGLE CELL ANALYSIS

Gothenburg 28/2 - 1/3 2013

Target audience: Medium to Advanced qPCR users

Entrance qualifications: Hands-on qPCR module or similar knowledge

Instructor: Anders Ståhlberg (Gothenburg University)

Description: In this course you will learn to recognize the difference between cell population and single-cell analysis and how to interpret and apply single-cell data in biological studies. Practical training in cell collection, gene expression profiling and data analysis at the single-cell level is included. The course contains:

- Overview of single-cell biology: methods, examples and trends
- Cell population versus single-cell analysis using gene expression profiling
- Cell collection methods. Demonstration of using FACS to collect single-cells
- Practical exercise running RT-qPCR to analyze individual cells
- Single-cell data analysis, including practical exercises

Price: If you combine courses and register for a **full 5 days course week**, it entails another **10% discount**.

Please find the final total price when performing [Course registration](#) or visit our [Price List](#) .

COURSES AT QPCR & NGS 2013 EVENT

Freising 21-22 March

> Basic real-time qPCR Application Workshop (2 days) hosted by TATAA Biocenter

The basic real-time qPCR course. You will acquire a comprehensive overview of the possibilities with real-time PCR, how to use it and how to analyze the results.

Day 1 <ul style="list-style-type: none">• Basic PCR and qPCR• Review of different detection technologies• Different instrument platforms• Applications and possibilities of qPCR.• Primer and probe design• Basic data handling and analysis• Experimental design and optimization	Day 2 <ul style="list-style-type: none">• Introduction to quantification principles• Quantification strategies, uses and limitations• Strategies for normalization of qPCR data• Calculations using different relative quantification methods• Absolute quantification• Validation of qPCR assays
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> Experimental design and statistical data analysis for qPCR (2 days) hosted by TATAA Biocenter

Learn how appropriate statistics shall be selected and applied correctly to get the most out of your qPCR data. The course includes theoretical lectures combined with practical data analysis performed with qPCR analysis software.

Day 1 - Statistical analysis of real-time PCR data <ul style="list-style-type: none">• Basic principles of statistics• Advanced principles of statistics• Statistical tests• Ability to detect a difference	Day 2 - Gene expression profiling with real-time PCR <ul style="list-style-type: none">• Multiplate measurements• Standard curves and absolute quantification• Experimental design, Selecting reference genes• Relative quantification, Comparison of groups• Expression profiling
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> MIQE: Quality control of qPCR in Molecular diagnostics (2 days) hosted by TATAA Biocenter

This course will go deep into the MIQE guidelines, describe the important steps in qPCR and how you should work to fulfill the guidelines. The course will also focus on how you do proper quality control of your qPCR assays to be used in molecular diagnostics. It will describe which controls that are needed and the statistics on how to do the evaluations.

Content <ul style="list-style-type: none">• Introduction to the MIQE guidelines• Nucleic acid extraction and quality control• Reverse transcription• Primer design• qPCR protocol and validation, LOD, LOQ• Principles of statistics	<ul style="list-style-type: none">• Normalization• Relative quantification• Absolute quantification• Variance contribution, experimental design• Precision testing
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Early bird registration period is ending on 31st of January

» [Register here](#)

» [Visit qPCR & NGS Event 2013 website](#)

COURSE TESTIMONIALS

"It is the best course in Europe and maybe in the world where you can have better idea regarding principles and practices of qPCR."

"The course was very well structured and organized and packed with helpful and intriguing information. I learned a lot and will be able to use it in my work."

"I learned all the possible gains and pitfalls of qPCR so I can design proper experiments and be critical when I read publications."

"Everyone doing PCR's should definitely attend this course."

OUR OPEN COURSE MODULES

Hands-on qPCR

The basic real-time qPCR course. You will acquire a comprehensive overview of the possibilities with real-time PCR, how to use it and how to analyze the results.

Experimental design and statistical data analysis for qPCR

Learn how appropriate statistics is selected and applied correctly to get the most out of your qPCR data.

Sample preparation and quality control of nucleic acids

Learn how to handle your samples, extract nucleic acids and check the quality to get the most powerful evidence from your experiment.

Quality control of qPCR in molecular diagnostics

Learn how to do proper quality control of your qPCR assays to be used in molecular diagnostics.

Multiplex PCR

Learn how to design assays to be able to run your reactions in multiplex.

Genotyping with qPCR **NEW!**

Learn about SNP, what is it and how it can be analyzed.

Immuno-qPCR

Learn how real-time PCR can be used to quantify protein.

Single cell analysis

Learn how to recognize the difference between cell population and single-cell analysis and how to interpret and apply single-cell data in biological studies.

SPECIAL COURSES HELD IN CONJUNCTION WITH CONFERENCES:

May 7-8

2 days Experimental design and statistical data analysis for qPCR

In conjunction with Select Biosciences [Genomics Research](#) , Boston, USA

COURSES HELD AT TATAA'S FACILITIES IN GOTHENBURG OR PRAGUE

Feb 4-6	3 days Hands-on qPCR (in Czech language) Prague, Czech Republic
Feb 25 - 1 Mar	3 days Hands-on qPCR 2 days Single cell analysis Gothenburg, Sweden
Mar 4-8	2 days Hands-on qPCR 1 day Sample preparation and quality control of nucleic acids 2 days Experimental design and statistical data analysis for qPCR Prague, Czech Republic
Apr 10-12	3 days Experimental design and statistical data analysis for qPCR Gothenburg, Sweden
May 13-17	2 days Hands-on qPCR 1 day Sample preparation and quality control 1 day Quality control of qPCR in mol. diagnostics 1 day Genotyping with qPCR - <i>New!</i> Gothenburg, Sweden
May 20-24	3 days Hands-on qPCR 2 days Experimental design and data analysis for qPCR Prague, Czech Republic
Jun 10-14	3 days Hands-on qPCR 1 day Multiplex PCR 1 day qPCR for microRNA analysis Gothenburg, Sweden
Jun 24-28	2 days Hands-on qPCR 1 day Sample preparation and quality control 2 days Experimental design and data analysis for qPCR Prague, Czech Republic

REGISTER HERE

For more information about the courses and registration visit our [website](#).

If you have any questions or would like to have information about our Custom made courses please contact us at training@tataa.com.

LET US HELP YOU WITH YOUR NUCLEIC ACID ANALYSIS!

FIND HIGH QUALITY PRODUCTS FOR YOUR QPCR WORK IN OUR [WEBSHOP](#)

TO GET EXPERT ADVICE AND CONSULTATION, YOU ARE WELCOME TO USE OUR [COMMISSIONED SERVICES](#)

GET MORE KNOWLEDGE AND HELP YOURSELF THROUGH OUR [HANDS-ON COURSES](#)



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