

# Short hands-on REAL TIME — PCR COURSE

ROUTINE USE *not only* IN DIAGNOSTICS FOR QUANTIFICATION AND DETECTION

Course organized in your lab / at your department!  
Discussion of your results, troubleshooting your problems  
Recommendations to your Real-Time PCR instrument options

*The most  
comfortable place for  
your training is your  
lab!*

Real-Time PCR is widely used in routine (not only diagnostic) labs. It is considered widely known and little attention is typically paid to the training of personnel.

Do you use or intend to use Real-Time PCR for detection or quantification of viruses, bacteria or GMO? Do you analyze single nucleotide polymorphisms or mutations using amplification curves, melting curves, or high-resolution melting?

*And still you ...*

*... have not received a proper theoretical and/or hands-on training?*

*... need to solve your Real-Time PCR puzzle?*

*... only know about the standard curve that it is standard?*

Contact us!

The course will be tailored to fit your instrument, needs, and specialization. You will tell us what we should cover.

This course is intended for everyone who plan to use Real-Time PCR or wishes to deepen their knowledge of this technique. No preceding knowledge of Real-Time PCR is required.

Duration: 1-2 days. In Czech or English.

Information: [info@seqme.eu](mailto:info@seqme.eu)

## Program

*The program is always  
tailored to fit your needs.*

Real-Time PCR in routine use - overview

Standard curve – Basics of data analysis

- standard curve principles
- preparing and using standards
- amplification plots, how to obtain C<sub>q</sub> values
- interpretation and presentation of results

Basics of statistics, precision

Qualitative analysis – genotyping and more

- principles of qualitative analysis
- melting curves, cluster analysis
- high-resolution melting
- interpretation and presentation of results

Assay design & validation in silico, optimization in vitro

- probes and unspecific dyes
- repeats, SNPs, secondary structures
- amplification efficiency
- specificity
- limit of detection and quantification

Sample prep and sample quality testing

- detection of inhibitors

Practical recommendations ...

- lab setup, instruments and software, quality control, dispensable and non-dispensable controls
- how to optimize your workflow and eliminate errors
- MIQE - Minimum Information for Publication of Quantitative Real-Time PCR Experiments

The course consists of lectures, software demonstrations, practical hands-on data analysis sessions, etc., its agenda can be adjusted to fit your needs and the course can be organized in your lab/department. Please contact us in case of interest.

The course is organized by SEQme s.r.o. For more information about our courses and other services please visit [www.seqme.eu](http://www.seqme.eu).

SEQme s.r.o. is an independent consulting and training company and a service provider in the field of DNA sequencing and Real-Time PCR.

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