

Measurements Matter

Find out how to ensure your data are fit for purpose in a free Webinar series:

Maximising the performance of real-time quantitative PCR

Part 1 – 17th January 2024 (13:00 - 14:00)

Part 2 – 24th January 2024 (13:00 - 14:00)

Part 3 – 31st January 2024 (13:00 - 14:00)

Delivered as part of the UKRI BBSRC-funded project on Standards and Metrology Training for Engineering Biology

Part 1 – 17th January 2024

- History of real-time qPCR
- Components of the qPCR and method workflow
- Design and optimisation of assays
- Basics of data analysis
- Applications

Part 2 – 24th January 2024

- MIQE: Minimum Information for publication of Quantitative real-time PCR Experiments
- Using calibration curves for data interpretation
- Reverse-transcription for analysis of RNA targets
- Selecting suitable statistical tools

Part 3 – 31st January 2024

- Impact of pre-analytical steps on the result, including extraction methods and dealing with PCR inhibition
- How to deal with outliers
- Other classic issues
- Selection of dyes and probe modifications

Webinars will be for one hour from 13:00 to 14:00
Recordings will be made available for all registered participants

REGISTER NOW FOR ALL THREE PARTS BY SCANNING EACH QR CODE BELOW

For further information email training@lgcgroup.com



Maximising the performance of Immunoassays

What is metrology and why do you need to know about it?

Metrology is simply the science of measurement. It is relevant to all measurements, regardless of their application or associated uncertainty. Every day, millions of measurements are made globally, and their applications are many and varied. Measurement results underpin international trade, support manufacturing, enable effective medical treatments, are crucial to research and development, and protect consumers and the environment. To enable sound decisions to be taken, these results need to be reliable.

Obtaining reliable measurement results doesn't happen by accident. There are many issues that scientists need to consider to ensure that their results are fit for purpose. After all, the consequences of getting it wrong can be significant! For emerging sectors such as engineering biology to reach their full potential, it is essential that the principles of metrology are understood and implemented. Only with reliable data can new technologies transition from the laboratory to the marketplace.

Join us on this free three-part webinar course to learn about the key concepts of measurement science and to understand some of the issues laboratories need to address to ensure the reliability of measurement data from real-time quantitative PCR.

About the UKRI BBSRC Standards and Metrology Training for Engineering Biology project

While primarily aimed at Masters and PhD level students, and other early career scientists, this course will be of interest to anyone working in the engineering biology field who wants to learn more about ensuring reliable and robust measurements using real-time quantitative PCR.

About the UKRI BBSRC Standards and Metrology Training for Engineering Biology project

This training course is being organised by the National Measurement Laboratory for Chemical and Bio-measurement (hosted at LGC) as part of the UKRI BBSRC-funded project on Standards and Metrology Training for Engineering Biology. The project aims to upskill the community and equip a new generation of researchers with the knowledge to deliver more robust reproducible science in engineering biology.