



# Measurements Matter

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

## *Maximising the performance of Immunoassays*

Part 1 – 17<sup>th</sup> October 2023 (13:00 - 14:00)

Part 2 – 24<sup>th</sup> October 2023 (13:00 - 14:00)

Part 3 – 31<sup>st</sup> October 2023 (13:00 - 14:00)

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



### Part 1 – 17<sup>th</sup> October 2023

- Get the most from your immunoassays.
- Practical tips for performing a variety of plate-based assays.
- Diverse applications of microtiter plate-based assays.
- Improving assay robustness.
- Formats of ubiquitous enzyme-linked immunoassay techniques.

### Part 2 – 24<sup>th</sup> October 2023

- Aspects for consideration when constructing an immunoassay.
- Understanding appropriate data analyses for immunoassays.

### Part 3 – 31<sup>st</sup> October 2023

- Overcoming limitations with immunoassay sensitivity
- Combat matrix interference in complex biological samples such as patient blood plasma, sera, and food extracts.

**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](mailto: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 plate-based assays.

## 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 in plate-based assays.

## 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.