

## digital lab day 2025

Date:

14-May-2025

Venue:

online

Costs:

free of charge

Type:

virtual event

Target group:

Experts from research, development, quality control and laboratory operations

Organiser:

LUMITOS AG

in cooperation with SPECTARIS

Contact:

LUMITOS AG

Ernst-Augustin-Str. 2

12489 Berlin

Links:

[🔗 To the event](#)

[🔗 To the registration](#)

LUMITOS has created the **digital lab day** to offer companies, start-ups, and users an event dedicated to digitalization in the laboratory that goes beyond traditional trade fairs and conferences.

The digital lab day is the virtual event for everyone involved in **digitalization in the laboratory – also known as Laboratory 4.0**.

The event is aimed at **experts from research, development, quality control and laboratory operations** who want to **discover innovative approaches and solutions for optimizing processes and data management**.

The **digital lab day** is dedicated to the central aspects of digitalization in the laboratory and offers a platform for exchanging information on the latest technologies and trends. The main topics include:

- Digital data acquisition, analysis and management: Use of modern systems such as electronic laboratory notebooks (ELN), Laboratory Information Management Systems (LIMS) and cloud-based solutions for efficient management of data and workflows.
- Artificial intelligence (AI) and machine learning (ML): Use of innovative technologies for pattern recognition in data, predictive models (predictive analytics) and supporting data-driven decisions.
- Networking and IoT: Integration of networked laboratory equipment and sensors for real-time monitoring, control of laboratory processes and secure remote access to equipment and data.
- Robotics and digital automation: Optimization of laboratory processes through the use of laboratory robots and automated workflows that increase precision and efficiency.
- Cybersecurity and data protection: Protecting sensitive laboratory and research data and complying with regulatory requirements, including the General Data Protection Regulation (GDPR).

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## Source

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## Further information

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