

# Robotics-4-Labautomation Symposium

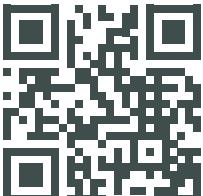
for the smart digitalised lab of the future

**TRACEBOT**

Traceable Robotic Handling of  
Sterile Medical Products

Programm: 25.05.2023 Konzil Konstanz, Germany

- Session 1: The TraceBot project
- Session 2: Qualification and validation in sterile environment
- Session 3: Challenges and requirements for robot integration in the lab
- Session 4: Robotic ideas of tomorrow - research topics and trends of the future



More info about the  
TraceBot project

The event is part of the TraceBot project  
that receives funding from the European Union's  
H2020-EU.2.1.1. INDUSTRIAL LEADERSHIP programme



European  
Commission

## **09.00** Registration, Networking

**09.30** Welcome || Maike Neumann, BioLAGO e.V. & Dr. Anthony Remazeilles, TECNALIA

### **Session 1: The TraceBot project**

**09.45** Overview of the Tracebot project || Dr. Anthony Remazeilles, TECNALIA

**10.05** See the TraceBot in action: video presentation || Ben Gordon, Astech Projects

**10.30** Coffee break & networking

**11.00** Object Recognition for Laboratory Automation || Prof. Dr. Markus Vincze, Technische Universität Wien

**11.25** Robotic gripper design and challenges || Dr. Mathieu Grossard, CEA

**11.50** The digital twin || Prof. Dr. Michael Beetz, Universität Bremen

**12.15** Lunch break & networking

### **Session 2: Qualification and validation in sterile environment**

**13.15** Regulatory considerations on automation from a pharmaceutical microbiology perspective || Prof. Dr. Isabelle Bekeredjian-Ding, Paul-Ehrlich-Institute, Federal Institute for Vaccines and Biomedicines

**13.35** **Panel discussion:** qualification and validation in the pharmaceutical industrie || Prof. Dr. Isabelle Bekeredjian-Ding, Paul-Ehrlich-Institute, Federal Institute for Vaccines and Biomedicines || Jens Auer, Stäubli Tec-Systems GmbH || Markus Roemer, comes compliance services || Lukas Lautenschläger, Takeda GmbH

**14:15** Coffee break & networking

### **Session 3: Challenges and requirements for robot integration in the lab**

**14.45** A 2D-drone swarm system for sample transfer || Edy Mariano, École polytechnique fédérale de Lausanne

**15.05** Robot integration and pharmaceutical quality control from the perspective of the applying industry || Philipp Seitz, Vetter Pharma-Fertigung GmbH & Co. KG

**15.25** Implementation challenges of a vision-based pick-and-place robot application in laboratory environment || Dr. Peter Galambos, Óbuda-Universität Ungarn

### **Session 4: Robotic ideas of tomorrow - research topics and trends of the future**

**15.45** Advancements in transparent Object Detection and Pose Estimation || Hrishikesh Gupta, Technische Universität Wien

**16.00** Hardware interface standardization and cloud infrastructure || Lukas Bromig, Technische Universität München / UniteLabs AG

**16.15** Perception through Cognitive Emulation || Franklin Kenghagho Kenfack, Universität Bremen

**16.30** Robot social maturity measurement - for a wider acceptance of robots in Europe || Anne Kalouguine, LNE, for the Robotics4EU project

**16:45** Funding support for lab automation projects – collaboration and beyond || Dr. Patrick Courtney, Topic group leader, analytical laboratory robotics with euRobotics

**17.05** Closing remarks