# SciYbotic Labs Accelerates Market Entry in the Pharmaceutical Industry

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**Optimal Industrial Automation and Optimal Industrial Technologies have jointly developed SciYbotic Labs, a new suite of laboratory automation solutions. These solutions are tailored to boost profitability in pharmaceutical R&D and analytical quality testing. By enhancing efficiency, standardization, and accuracy in laboratory analysis, SciYbotic Labs enables customers to expedite their market entry.**

The SciYbotic Labs solution is part of the SciY product platform, a vendor-agnostic software brand committed to developing advanced scientific software and automation technologies. SciYbotic Labs enables pharmaceutical companies to set up fully automated, regulatory compliant, off-line laboratory testing systems for their products. These systems can be deployed for both R&D and quality control purposes. They are fully customizable, allowing the analytical requirements of individual facilities and applications to be addressed, boosting accuracy, testing repeatability, precision and traceability. Moreover, SciYbotic Labs liberates scientists from routine, repetitive manual procedures, offering uninterrupted operations, increasing throughput, and reducing errors and costs associated with quality control activities.

Featuring autonomous mobile robots (AMRs), multi-axis robots and the synTQ PAT (Process Analytical Technology) knowledge management software by SciY, SciYbotic Labs can perform every analytical stage for solid and wet chemical testing.

This includes sample transportation, preparation, positioning within analytical instruments and onto trays, data storage, interpretation and visualization.

As an example, individual samples can be picked by a six-axis robotic arm on top of an AMR and transferred from manufacturing lines or any other area to the Smart Laboratory. There, the laboratory robots conduct any sample preparation following the analytical workflow and can then load and unload the necessary analytical instruments. Once these actions are complete and all tests have been performed, the robot can transfer the samples to trays that are uniquely marked for easy traceability, which the AMR can then transport wherever they are needed. This example is just one of a virtually unlimited number of potential workflows.

The synTQ platform hosts chemometric and other predictive models while offering intuitive dashboards to help subject matter experts gain insights on the results obtained. In addition, the software defines the characteristics of each sample and coordinates all testing and robotic activities.

Finally, synTQ stores all validated analytical methods and workflows in a GMP-compliant way. This has two key features. Firstly, workflows can be configured and approved for use by authorized personnel without the need to call in an engineering team. Secondly, the validated analytical methods/workflows can be transferred in a GMP-compliant, traceable way to any other laboratory in your organization.

While changes would be required to the robot movements as a workflow is transferred between sites, to reflect the different configurations and equipment of the other labs, the configuration and validation of these movements is a straightforward engineering task compared to revalidating the analytical methods. SciYbotic Labs is therefore fully customizable to address the specific needs of each individual pharmaceutical application and can also help drive inter-facility

collaboration and standardization. As a result, the same GMP-compliant process can be adopted by different facilities across the globe without the need to seek costly re-validation of the analytical methods.

Martin Gadsby, Chairman at Optimal Group, comments: “Accurate laboratory testing is pivotal for innovative research, knowledge generation, batch integrity and patient safety. However, it often diverts scientists from engaging in truly transformative and value-adding activities. To address these issues and meet current market demands, we are proud to launch the SciYbotic Labs series of automated laboratory solutions. These systems are able to optimize and improve analytical operations, benefiting pharmaceutical companies and patients worldwide. We look forward to supporting customers in the implementation of these highly effective automated setups that will help boost productivity and performance.”

***To learn more about SciYbotic Labs, visit: https://www.sciy.com/en/products-and-solutions/sciybotic/sciybotic-labs.html***

**Image captions:**

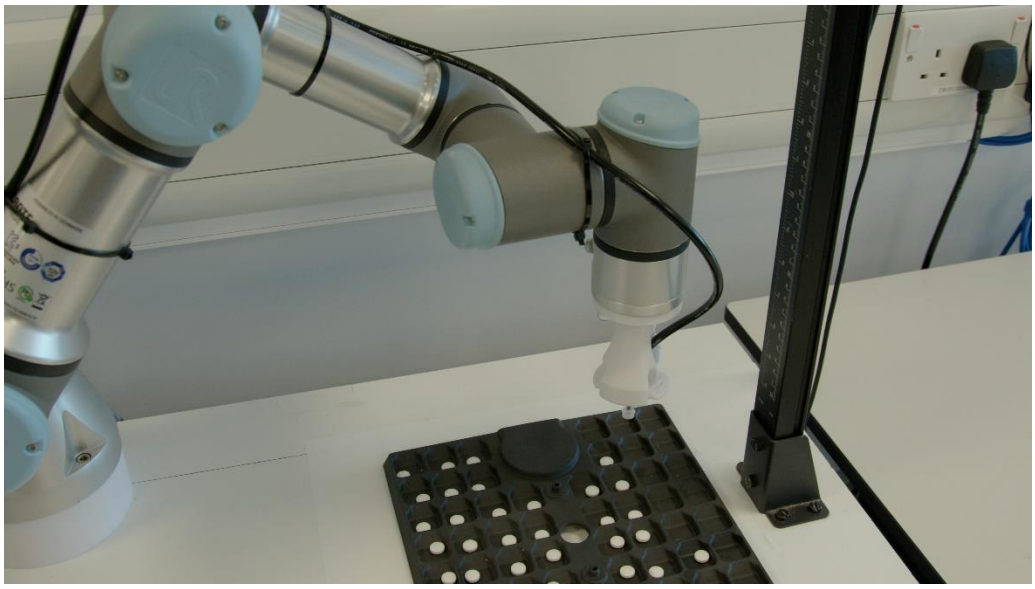

**Image 1:** With the launch of SciYbotic Labs, the SciY platform is supporting pharmaceutical companies to advance on their digitalization journey.

## About SciY

SciY is a vendor-agnostic platform offering a broad range of software solutions across the life sciences research, development and manufacturing automation and QC functions – easy to integrate, flexible, user-centric and uncompromisingly performant. By streamlining data analysis and management, SciY empowers scientists and researchers, accelerates scientific discoveries and enables precise decision-making. www.sciy.com

## About Optimal Industrial Automation (OIA)

Optimal Industrial Automation is one of the well-known software and automation businesses operating under the SciY Family. Optimal Industrial Automation has more than 30 years' experience building, integrating and optimising manufacturing automation systems for challenging and highly regulated industries. Projects are typically for the pharmaceutical, life science, chemical, aerospace, green energy, food & beverage and other high-value process sectors.

The company's primary aim is to deliver measurable reductions in production costs, while finding substantial improvements in productivity, product quality and business sustainability.

The company employs a large technical team qualified in software, electrical, electronic, vision and control hardware disciplines. The team has built and developed individual machines and process skids to meet regulations such as FDA 21 CFR Part 210/211 - Pharmaceutical Industry GMPs, and FDA 21 CFR Part 11 – Electronic Records and Signatures. It is also ISO accredited and has years of experience working within GAMP guidelines.

**Reader Contact:**

SciY: Markus Ziegler,

Sr. Director and Head of Group Marketing

Bruker BioSpin

Tel: +49 172 3733531

Web: https://www.sciy.com/en.html

E-Mail: info@sciy.com

Address: 40 Manning Road | Billerica | MA 01821 | USA

**PR Agency:**

DMA Europa: Ollie Eggleton

Tel.: +44 (0) 1905 917477

Web: news.dmaeuropa.com

E-Mail: ollie.eggleton@dmaeuropa.com

Address: Progress House | Great Western Avenue | Worcester | WR5 1AQ | UK