



TECHNIDATA participates in the microbiology lab modernization of the Grenoble Alpes University Hospital: a laboratory at the forefront of technology thanks to lab automation and paperless microbiology.

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The Grenoble Alpes University Hospital (CHUGA) leverages innovation and performance to build its development strategy. In this context, the hospital microbiology laboratory has decided to automate its organization by deploying the BD Kiestra™ lab automation system designed by BD, together with a paperless microbiology management based on the TECHNIDATA LIS (Laboratory Information System). With this large-scale project, the Grenoble Alpes University Hospital is now a pioneer site, among the first French organizations to get such a modern full lab automation environment.

An ambitious, innovative and pioneer project

"We are currently one of the first University Hospital microbiology laboratories in France to have installed such an innovative and efficient working tool, as the latter enables us to automate numerous analytical processes – streaking, incubating, and reading the cultures. We have several objectives: streamline those repetitive tasks with very little added value, increase productivity, improve traceability and streaking processes standardization, reduce contamination and error rates. It is an exciting and innovative project that brought together different services within the university hospital: technical and informatics departments, technicians, engineers, and biologists. These technological advances have significantly transformed our profession," said Dr. Sandrine Boisset, Biologist at the Grenoble Alpes University Hospital.

The hospital, BD and TECHNIDATA teams have been collaborating closely for this ambitious project, which also required the extension of the existing building to install the BD Kiestra™ laboratory automation system in the laboratory.

An advanced integration

"More than just an interface between the TECHNIDATA LIS and our BD Kiestra™ lab automation system, our respective teams have strived to truly integrate the two systems: the bidirectional screen synchronization between the lab automation system and the LIS has significantly improved the working conditions for the laboratory staff", said Laurent Pinault, Country Business Leader France at BD Life Sciences – Diagnostic Systems France.

Thus, microbiologists can easily access the agar images that are stored on the BD Kiestra™ lab automation system for the

digital media reading or for asking for a complementary test, while performing the clinical validation using the TECHNIDATA LIS. Yet, it is also possible to use the lab automation system to access the request managed by the LIS, in order to view complementary results, such as those of pre-culture steps or cytology tests.

The benefits of paperless microbiology

This LIS has been designed with and for microbiologists; it benefits from the editor proven expertise in this field and provides the laboratories with functionalities that perfectly match the specific needs of this discipline. The software handles all the different laboratory processes; sample management, clinical review, protocol customization, epidemiology, as well as the interfaces with the different microbiology instruments and lab automation systems.

"TECHNIDATA has supported us throughout the project. We have redesigned the whole laboratory organization and optimized the workflow to fully benefit from the paperless microbiology. Thanks to TECHNIDATA electronic workbench, the laboratory can strengthen traceability and reliability even more, and increase efficiency," adds Dr. Boisset. *"The lab automation system and the paperless microbiology LIS are complementary, and they are both essential components of the laboratory automation."*

In order to make it possible for all the laboratories – including those that do not consider installing a lab robotics system – to leverage all the benefits of the paperless microbiology, TECHNIDATA has launched ^{TD}BactiLink, a middleware version of its microbiology LIS. This microbiology middleware easily integrates the laboratory organization, and enables the laboratory to benefit from those functionalities dedicated to the discipline in a cost-effective way without changing the existing LIS.

About TECHNIDATA www.technidata-web.com

With over 40 years' experience in the field of laboratory management, TECHNIDATA is a leading global software supplier for clinical, anatomic-pathology laboratories and biobank information systems. Developed in full compliance with the ISO 9001/ISO 13485 quality standards, TECHNIDATA software products are distributed in more than 25 countries worldwide and cover all the clinical laboratory disciplines: Biochemistry, Hematology, Immunology, Virology, Microbiology, Blood Banking, Histology/Cytology, Genetics, and Biobanking.

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About BD www.bd.com/fr

BD provides innovative solutions that help advance medical research and genomics, enhance the diagnosis of infectious disease and cancer, improve medication management, promote infection prevention, equip surgical and interventional procedures and support the management of diabetes. The company has nearly 50,000 associates who work in close collaboration with customers and partners to improve results, reduce health care costs to improve access to comprehensive, quality health care services, increase efficiency, strengthen healthcare systems and enhance access to health for all people.