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## **Molzym GmbH & Co. KG and Fraunhofer IZI-BB Joint Research and Development Project**

Joint press release of Molzym GmbH & Co. KG and Fraunhofer IZI-BB

### **AutoSepT – Automated sepsis diagnostic for fast testing in clinical laboratory**

Under the umbrella of a funding project, Molzym, in collaboration with Fraunhofer IZI-BB, develops a new analytical platform, called AutoSepT, for fast pathogen identification, directly from specimens, in less than 5 hours.

Sepsis is a life-threatening disease and its diagnosis requires a fast identification of the infectious pathogen, since every hour without appropriate treatment increases the risk of mortality by up to 7%. Conventional diagnostic procedures as blood culture, are often not fast enough or the culture remains negative due to growth inhibition of the pathogens caused by prior antibiotic administration.

“With AutoSepT, we develop an innovative walk-away system for the fast and precise culture-independent identification of sepsis-causing pathogens. This new approach offers the opportunity of a fast diagnosis in 4 to 5 hours, in combination with the possibility to identify rare, non-cultivable and inhibited pathogens. Hence, the needs of hospitals and private laboratories for a fast and broad-range solution is met” says project leader Dr. Michael Lustig.

AutoSepT will identify the most frequent sepsis-causing pathogens in just a few hours. In addition, rare and non-cultivable pathogens can be detected based on broad-range 16S Sanger sequencing.



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Molzym has opened a branch in Potsdam-Golm, Germany, and thus set the ground to successfully achieve this exciting development project.

The project is funded by the European Regional Development Fund (ERDF) and the federal state of Brandenburg (ILB).



EUROPEAN UNION

European Regional  
Development Fund

#### About Fraunhofer IZI-BB

Fraunhofer IZI-BB (former IBMT) is, since 1998, engaged in research and development in bioanalytical and diagnostic solutions for applications in diverse areas in medicine, environmental analysis and food control. Since 2014, in the scope of a reorientation of this part of the institute, the infrastructure is being extended to improve the support of regional companies and the department “Bio-system integration and process automation” established with funding of the federal state of Brandenburg (PILOT production facilities for demonstrations, funding in the scope of ERDF). Here biotechnological and bioanalytical production and lab processes are analysed and digitalised.



#### About Molzym

Molzym is developer and producer of innovative products for the molecular biological research and routine diagnostics of infectious agents. In the molecular diagnostics, Molzym offers unique culture-independent solutions for multiple clinical specimens and applications, in a single protocol. The manual or automated sample preparation, based on the MolYsis™ technology, in combination with a broad-range 16S/18S analysis already allows hospitals and private laboratories the highly sensitive detection of bacterial and fungal DNA – so far more than 1.300 bacteria and fungi have been identified with Molzym’s diagnostic solutions.



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