

New technology platform for single cell analysis

LPKF Opens Biolab for ARRALYZE Technology

In its 45-year history, LPKF has repeatedly developed groundbreaking technologies and opened up new markets in the electronics, research and development, automotive and solar sectors. With ARRALYZE, the technology company has now developed a platform that will enable future customers in the biotechnology and pharmaceutical industries to perform single-cell screenings quickly and efficiently. ARRALYZE combines biomedical research with software and precision technology. The system can thus contribute to the accelerated development of personalized medicine, for example in the field of cancer therapies.

Dr. Robin Krueger is the head of ARRALYZE. He studied chemistry and biochemistry and worked early on with optically switchable proteins in hospital germs. "We know that tumors have individual characteristics and are influenced by genes and other physiological properties. For this reason, no one should get a standard cancer therapy, but one that is tailored to them personally." Krueger and his team of collaborators are convinced that ARRALYZE will make the development of modern medication much more cost-effective, thus enabling the widespread use of personalized medicine.

The recently opened biolab is equipped with specialized equipment for the production and analysis of cell cultures. "The biolab is essential for us to understand the needs and problems of our ARRALYZE customers and to be able to offer practical solutions," says Krueger. "This is what sets us apart from other plant growers in this complex field."

For Britta Schulz, member of the Management Board and head of the Development segment, the development of ARRALYZE technology in less than 3 years is a demonstration to LPKF's unwavering innovative strength. "With our LIDE technology for structuring glass and our expertise in optics, precision engineering and software, we are now bringing a product to market that will set new standards in biotechnology," says Schulz.

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Prime Standard
ISIN 0006450000

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The system is thus one more step towards pushing back the previous boundaries of cell biology. The innovative approach of this process qualified ARRALYZE for inclusion in the shortlist of the prestigious Innovation Award 2021 of the State of Lower Saxony.

At www.arralyze.com further information on the technology and the platform can be found.

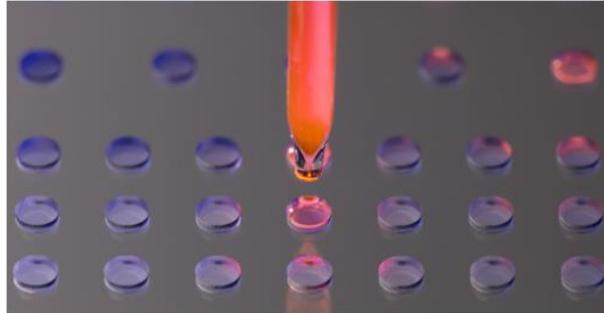


Fig 1: The glass cavities that can be produced with LPKF's LIDE technology require very small sample volumes in the range of picoliters to nanoliters. Here, a fluorescent test solution is printed with high precision into a glass array. The array has wells with different diameters in the micrometer range.



Fig. 2: Together with the first city councilor of Garbsen, Walter Häfele (2nd from left), Britta Schulz (CEO), Christian Witt (CFO), Dr. Robin Krueger (Vice President ARRALYZE) and Dr. Nora Fekete-Drimusz (head of the bio lab) open the bio lab for the ARRALYZE technology.

About LPKF

LPKF Laser & Electronics AG is a leading provider of laser-based solutions for the technology industry. Laser systems from LPKF are of central importance for the manufacturing of printed circuit boards, microchips, automotive parts, solar modules and many other components. Founded in

1976, the company has its headquarters in Garbsen near Hanover and operates worldwide through subsidiaries and agencies. Around 20 percent of the workforce is engaged in research and development.