



MicrofluidX and Immatics working together on automated end-to-end bioprocessing for TCR-T therapies

Joint research project with the goal of increasing efficiency and reducing cost of manufacture through precision process control

Stevenage, UK, and Houston, Texas, May 2, 2023 – MicrofluidX a UK-based provider of next-generation bioreactors for cell biology research and cell therapy manufacturing, today announces a joint research project with Immatics, a leader in the development of T cell receptor (TCR)-based immunotherapies, to combine Immatics' manufacturing of TCR-T cells with MicrofluidX's innovative new platform the Cyto Engine™.

MicrofluidX and Immatics will collaborate to investigate more efficient and cost-effective manufacturing solutions for Cell and Gene Therapies. By utilising the Cyto Engine's™ precision process control, closed system automation, online and inline analytics and end-to-end capabilities, manufacturing processes can become more efficient, with shorter culturing times and significant reduction in the labour required to produce these complex therapies. Early trials in the MicrofluidX bioreactors (data available [here](#)) have already demonstrated better transduction efficiencies of primary T cells (5x higher) and associated reduction in vector consumption (10x lower) than conventional approaches.

"We are excited to be working with such an experienced partner in the field of TCR-Ts, as we progress the Cyto Engine™'s development. We look forward to bringing the power of the Cyto Engine™ to the Immatics process and proving out the process improvements that precision control can bring", says Antoine Espinet, CEO at MicrofluidX

"We are excited to test the abilities of the Cyto Engine™ platform within our cell therapy manufacturing process. The ability to precisely control T cell manufacturing via a microfluidic architecture represents an innovative approach to adoptive cell therapy production", says Amir Alpert, Director Technology Scouting & Development.

MicrofluidX and Immatics will assess the capabilities of the Cyto Engine™ platform to generate TCR-T cells in an automated manner. Data generated within this project will be used to further improve the MicrofluidX manufacturing platform before its planned commercial launch in 2024.

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About MicrofluidX

MicrofluidX is an advanced therapy manufacturing platform company based in the Stevenage Bioscience Catalyst, UK. It is developing the Cyto Engine™, a proprietary next generation, scalable bioprocessing platform for cell and gene therapy manufacture. Its mission is to make precision medicines accessible to patients around the world by disrupting the current advanced therapy development process, providing scalable, fully automated platforms that can be used in research and taken through to large-scale GMP manufacture. For more information visit www.microfluidx.co.uk or follow us on [LinkedIn](#) or [Twitter](#)

About Immatix

Immatix combines the discovery of true targets for cancer immunotherapies with the development of the right T cell receptors with the goal of enabling a robust and specific T cell response against these targets. This deep know-how is the foundation for our pipeline of Adoptive Cell Therapies and TCR Bispecifics as well as our partnerships with global leaders in the pharmaceutical industry. We are committed to delivering the power of T cells and to unlocking new avenues for patients in their fight against cancer.

For regular updates about Immatix, visit www.immatix.com. You can also follow Immatix on [Instagram](#), [Twitter](#) and [LinkedIn](#).

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