

Biosensor Support Grant for CGT projects by Jobst Technologies GmbH

In Cell and Gene Therapy (CGT) development and manufacturing excessive needs are placed on **repeatability, safety and quality**, as well as on process **stability**. During production crucial insights into the cells condition are gained by monitoring metabolic parameters including **Glucose, Lactate** and others. **Monitoring** such parameters is typically done by analyzing samples in large, expensive and complex analyzing instruments that are not available to every researcher and smaller scale company.

Unlike many other bio-pharma therapy products, CGT is depending on reliable processing of small, often **patient-derived** sample volumes, for which closed-loop **metabolic monitoring and control** contribute to process success and scalability. The biosensors by Jobst Technologies offer robust and high performing enzymatic based sensor components that enable continuous monitoring as well as automated measurement of small sample volumes. To support the CGT community and advance innovation, we are providing selected projects with our products and expertise to achieve such functionality.

The projects selected for a **Biosensor Support Grant for CGT** will receive the needed amount of B.LV5 continuous electrochemical **biosensors** for the measurement of Glucose, Lactate, Glutamine and Glutamate in a flow-through sensor package. This also includes our SIX Read-Out **transmitter** as well as a ready-to-use software and an open communication protocol. During the project we will be available to assist with sensor integration, give application support, and can further support your automation system with our CPP1 **micropumps** including the utilization of pre-sterilized **microdialysis probes**.



B.LV5 Multi-analyte Biosensor in a flow through configuration



SIX Transmitter for Biosensors. USB-connectable to personal computers



CPP1 180 ZM peristaltic micropump 0 μ l/min to 180 μ l/min

If you are interested, please send a brief **application** to info.jobst@ist-ag.com. The application should include the project scope and description, planned publication activities as well as a short introduction of the involved Group/Company. The applications are selected by their impact in **monitoring and control** in CGT processing and safety.

We will accept applications until the **1st of November 2022** and reveal the selected projects at our 20th anniversary celebrations on the **1st of December 2022**.

Eligible for the Biosensor Support Grant are

- **University Students** at any level from undergrad to PhD. University applicants shall include a letter from their PI where lab access is confirmed if the project is selected.
- **Start-Ups** and other small companies with an employee count <20.

We are looking forward to get in contact with you and to review your proposals!

