

# Improved therapies through the fusion of science and industry

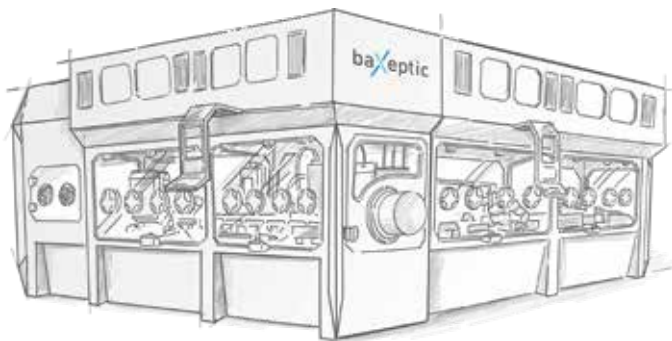


Fraunhofer IPT and Harro Höfliger bridge the gap between laboratory development and commercial production of **cell and gene therapeutics**.



The production of ATMPs (Advanced Therapy Medicinal Products) of the highest quality requires individual production facilities and specific services. The focus here is on careful handling of the cell material.

The Fraunhofer Institute for Production Technology IPT and Harro Höfliger combine science and marketable technology to develop efficient solutions – fully automated and optimally designed for the product.



## Benefit from the advantages

- Solutions from the laboratory to commercial production, whether batch size one or serial production
- Accelerated market launch
- State-of-the-art research services from Fraunhofer IPT
- Modular, flexible GMP solutions from Harro Höfliger

## Your contact persons

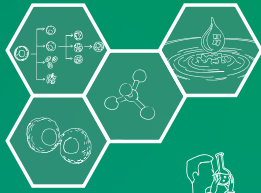


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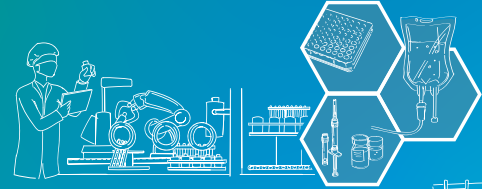


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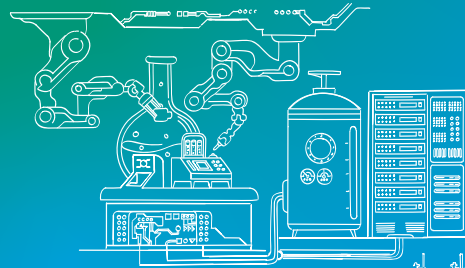
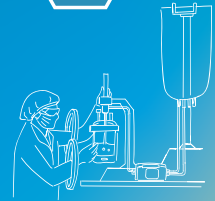
**Excellence in research and production**



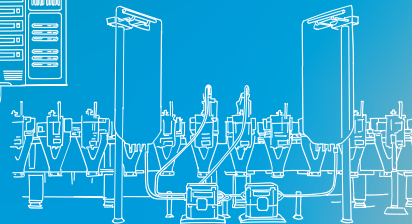
**R&D**



**Small scale**



**High volume**



## Three steps to success

### 1. Consulting

- Techno-economic analysis of all processes in cell production, including the assessment of risks and automation potential
- Development of new software and hardware solutions for the ATMP production systems

### 2. System planning

- reation of a customized project plan and system concept
- Use of state-of-the-art technologies, for example from the fields of automation and AI
- Selection of required processes and solutions

### 3. System engineering

- Transfer of the defined processes to GMP-compliant systems for the automated production of ATMPs
- Consultation on all aspects of parameterization, testing and validation