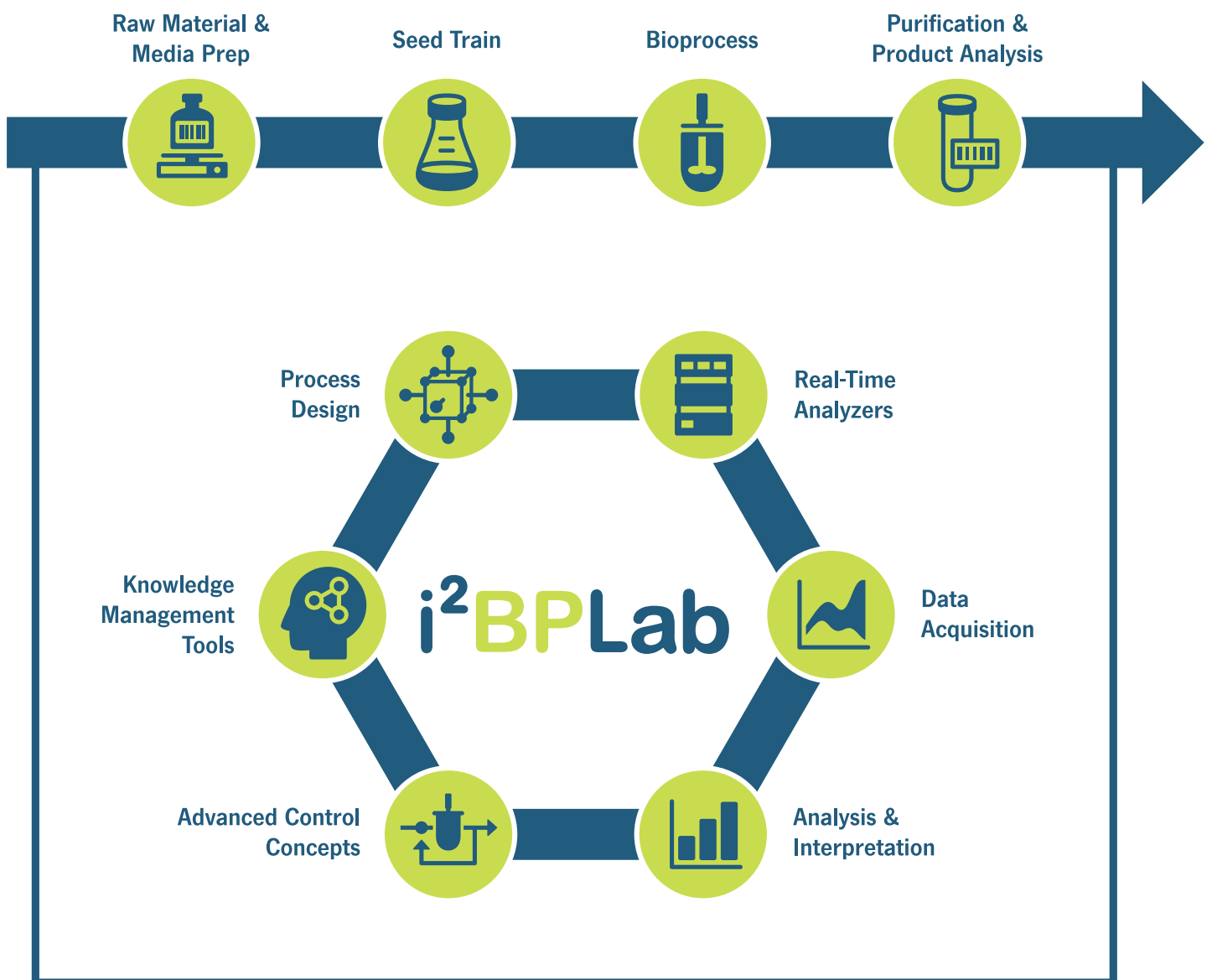


Intelligent & Integrated BP Lab

Biotech 4.0 : Efficient Automated and Digitalized Bioprocessing via Fully Integrated Manufacturing Chains



CLOSING THE GAP

This innovation project aims at closing existing gaps in automation and digitalization of bioprocessing ecosystems. It will bring modern 4.0 concepts into R&D labs and manufacturing floors, thanks to the powerful combination of Securecell's Lucullus®, Process Information Management System, and the Numera®, automated sampling and sample preparation system.

INTELLIGENT INTEGRATION IS KEY

Securecell AG supports the Biotech industry in their path to paperless and more efficient workflows. To unlock the potential and added value of holistic, data-intense process optimization and control concepts, seamless device integration and data handling across the entire manufacturing chain is essential. Numera® and Lucullus® enable the automatic extraction, monitoring and real-time control of critical process parameters, from media preparation to harvesting.

THE DEMONSTRATION LAB

An *Intelligent & Integrated BioProcessing Lab (i²BPLab)* will be realized in collaboration with the Bioprocess Technology Group at ZHAW. In one central platform, media kitchen, seed train, bioreactors and analyzers are implemented at a cutting-edge standard of automation and digitalization, and combined with tailored software solutions for data processing, softsensor- and model-based control. R&D projects and Securecell's customers can take advantage of this demonstration platform to first-hand test the benefits of the Lucullus® and Numera® ecosystem for their products and applications.



Media Kitchen & Warehousing

- Digital warehousing
- Media recipe database
- Guided lot preparation
- Data from all media kitchen devices



Digitalized Preculture Processes

- Real-time shake flask data
- Definition of transfer points
- Seamless seed train surveillance



Centralized Interface: Lucullus®

- One platform to plan, prepare, execute and evaluate all processes
- Centralized data storage
- Real-time monitoring of all activities



Numera® Automated Sampling and pH module

- Automated sampling, processing and analysis
- On-line HPLC & cell analyzer
- Automated pH-reference measurement



Process Control & Monitoring

- Advanced control concepts
- Execution of tailored recipes
- Make efficient use of complex data



Process-near Analytics

- Sample management
- Unambiguous labelling
- Automated data import of at- & off-line data sources

BIOTECH 4.0

THE FULL POTENTIAL OF DIGITALIZATION

- Paperless and more efficient workflows
- Streamlined bioprocess optimization
- Automatization and digitalization
- All-in-one solution for process control and monitoring
- Centralize all your data

Request a visit to one of our demolabs and more information:

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