MOLECULAR BIOTECHNOLOGY RESEARCH, DEVELOPMENT AND SERVICES





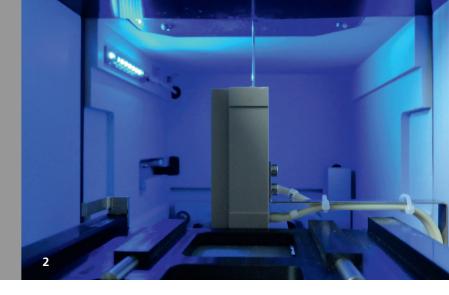
PLANT BIOTECHNOLOGY

- 1 Sampling of tabacco leaves © Fraunhofer IME / Dirk Mahler.
- 2 Cultivation of cells
 © Fraunhofer IME / Anne
 Peuscher.
- Identification, cloning and optimization of target genes
- Genome Editing
- Plant transformation and development of crops with improved stress tolerance and agronomic traits
- Metabolic engineering to improve metabolic pathways
- Production of technical proteins and recombinant pharmaceuticals in microbes, plants as well as plant and mammalian cell cultures
- Cell-free biosynthesis of proteins and metabolites
- Optimization of process and cultivation conditions through statistical experimental design
- Development of novel purification strategies
- Characterization of recombinant proteins
- Proteomics
- Flow-cytometric analysis and cell sorting
- High-content imaging/screening and assay development for plant and animal cells
- Development and production of plant stem cell lines

Contact

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CONTRACT SERVICES

- 1 Pipetting robot© Fraunhofer IME / BirgitOrthen.
- 2 Surface plasmon resonance © Fraunhofer IME / Holger Spiegel.

Assay development for high-content screening

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DNA sequencing / DNA fragment analysis

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Metabolic engineering and natural products

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Flow cytometry analysis and cell sorting

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Generation and production of monoclonal antibodies

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Biacore interaction analysis (SPR)

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Bioprocess development

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Recombinant protein production

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