LEADING-EDGE CLUSTER

In 2010, the concept m^4 – Personalized Medicine and Targeted Therapies was among the winners of the "Leading-Edge Cluster Competition" initiated by the German Federal Ministry of Education and Research. In the next five years, companies and research institutions in the Greater Munich Area will carry out a 100 million Euro program to advance Personalized Medicine.

Personalized Medicine...
- Biomarker-based disease diagnostics
- Targeted therapies for stratified patients
- Higher efficacy → more efficient medicine
- Lower costs for drug development
- Less side effects → safer therapies

VISION 2020

- Extension of Munich’s leading position as biotechnology location in Germany and Europe
- Comprehensive implementation of the concept of Personalized Medicine along the value added chain of drug development
- Internationally recognized center and model region for Personalized Medicine

STRATEGY

m^4 stands for an early and tight interaction between the four main partners in Munich to achieve a more efficient value added process.

Science in munich
Biotech and pharma in munich
Hospitals in munich
Cluster management for munich

CONTACT

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A NEW DIMENSION IN DRUG DEVELOPMENT

Leading-Edge Cluster Munich
The Munich Biotech Cluster is Germany’s leading location for life sciences, pharma and biotechnology:

- 350 Life Science companies, 118 of them small and medium-sized biotech enterprises
- 2 distinguished “excellence universities”: Ludwig-Maximilians-Universität and Technische Universität München
- Helmholtz Zentrum München – German Research Center for Environmental Health
- 2 university hospitals and about 60 further hospitals
- 3 Max Planck Institutes: Biochemistry, Neurobiology, and Psychiatry
- 2 incubators dedicated to biotech: IZB Martinsried and Freising/Weihenstephan

To improve Munich’s attractiveness and efficiency for Personalized Medicine, five projects will improve the infrastructural framework:

- **m⁴ Biobank Alliance**
  Central access to biological samples for pharmaceutical industry and academic research
- **m⁴ Data Integration System**
  Central communication platform and data management
- **m⁴ Trial Service Center**
  Service and consulting concerning patient recruitment and stratification, progression from preclinic to clinic
- **m⁴ eAcademy**
  eLearning platform for custom-fit Life Science and business modules
- **m⁴ Scouting & Incubation**
  Targeted identification and active advancement of innovative academic research projects

More than 100 partners from academia and industry participate in the initiative m⁴ – Personalized Medicine and Targeted Therapies. More than 30 research cooperation projects will be performed: and will perform research in more than 30 cooperation projects:

- Identification and validation of biomarkers
- Molecular diagnostics
- Imaging techniques
- Platform technologies
- Development of drug candidates
- Innovative therapy concepts
- Improved production processes