

## **Corporate Overview**



## **Setup**





framework contract with Max-Planck-Society



Broad academic network, e.g. collaboration with Helmholtz



## **Company profile**

- 60 employees, 85% of PhD-level from ex-Pharma/Biotech
- >25 drug discovery projects broad range of indications
- Industry Partners:













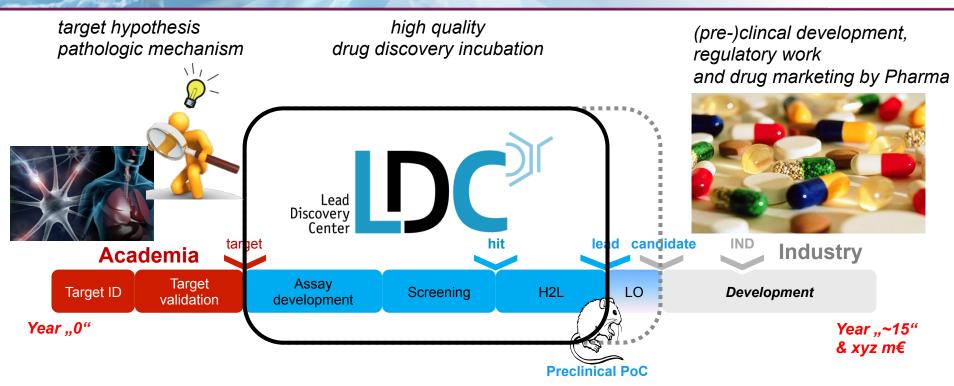




## **Product profile**

- innovative small molecule Lead series with PoC in animal models
- strict Lead criteria according to Industry standards



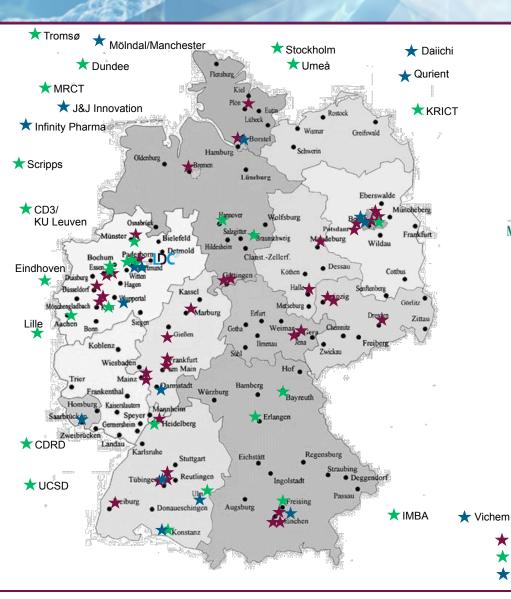




- is a translational incubator for academic project ideas
- closely collaborates with academic Pls and/or industry
- requires external funding for project incubation (e.g. by Max Planck)
- is "wet" tech transfer but not a CRO
- offers exclusive licensing and/or co-development models for partnering
- shared risk shared success

## Partners & Academic Network







- 82 institutes
  ca. 17.000 employees, 5.500 scientists
- >15.000 publications p.a.; 32 nobel laureates
- additional 5.000 young & guest scientists
- ~40 institutes with life science (biomedical) oriented research programs (BMS and CPT)
- central tech transfer unit:



#### Max-Planck-Innovation

3.400 inventions2.000 contracts100 spin-offs

- ★ Max-Planck Institute
- ★ Academic Collaboration Partner
- ★ Pharma/Biotech Network

## LDC - Cheminformatics



### **Cheminformatics at LDC**

- Compound acquisition, focused libraries
- Analysis of screening data: Filtering, Clustering
- Acquisition of Hit analogs: in silico screening, 2D and 3D
- Support Hit optimization:

Structure and pharmacophore based modelling

ADME/T: Identify metabolic hot spots, toxicophores ...

- Support ELF: Library optimization, reagent selection, enumeration, calculation of properties of library.

## LDC - Cheminformatics



### **Cheminformatics at LDC**

Access to commercial packages:

- -Modelling: Schrödinger
- -Public and in house HTS, ADME/T and in vivo data.
- -Data analysis: Knime, R, ChemAxon

# LDC – Competencies



### **Medicinal Chemistry**

- Computer-aided rational drug design, cheminformatics
- Design of focused compound libraries
- •Hit-to-lead identification, based on biochemical or cellular active compounds
- Identification of active compounds
- Lead optimization

### **Assay Development & Screening**

- •In house compound collection and data base: LDC collection, Comas, HDC
- •Development of biochemical and cellular assays for new targets
- Biochemical and cellular primary screening (mid-scale)

### **Biology**

- Cellular pharmacology
- Evaluation of efficacy and toxicity
- Mode of Action and phenotypical studies
- Identification of biomarkers

#### **Pharmacology**

- Early ADME profiling
- In vivo PK/PD studies and coordination of in-vivo efficacy studies
- Early toxicity studies
- Metabolite studies