

The NMI is an application-oriented research institute that makes scientific knowledge available to the business world



- Application-oriented research and development, consultation, measurements, testing, analysis, studies and implementation of innovative solutions.
- Wide, efficient service spectrum for SMEs and large customers.
- Flexible structures, highly qualified, interdisciplinary teams, state-of-the-art equipment and quality management for extraordinary results.
- Realisation of goal-oriented projects with a strong network of industrial partners, universities and research institutes with various specializations, especially the life sciences.
- Incubator for new companies.
- Founded in 1985 as a non-profit foundation.
- 160 employees.
- Subsidiary:
NMI Technologie Transfer GmbH
(NMI TT GmbH).

160
Employees

25
Years

2168
Project years

With our focus on solution-oriented, applied research and development, we achieve concrete results quickly and efficiently. Convince yourselves of our wide, interdisciplinary competence in meeting your demands.

NMI achieving results.

Molecular neurobiology >>

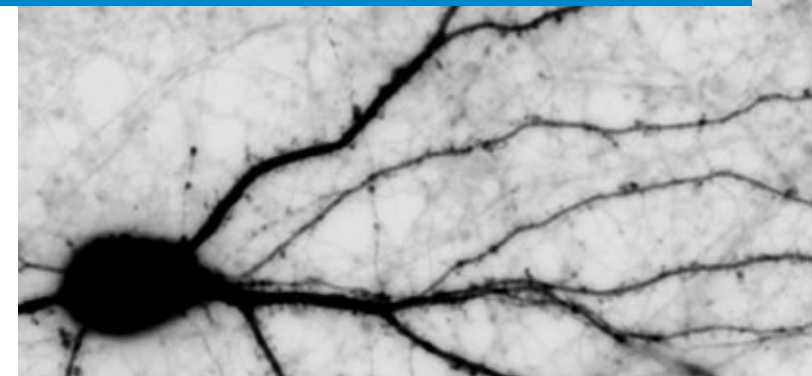


TARGET VALIDATION
AND MODEL SYSTEM
DEVELOPMENT

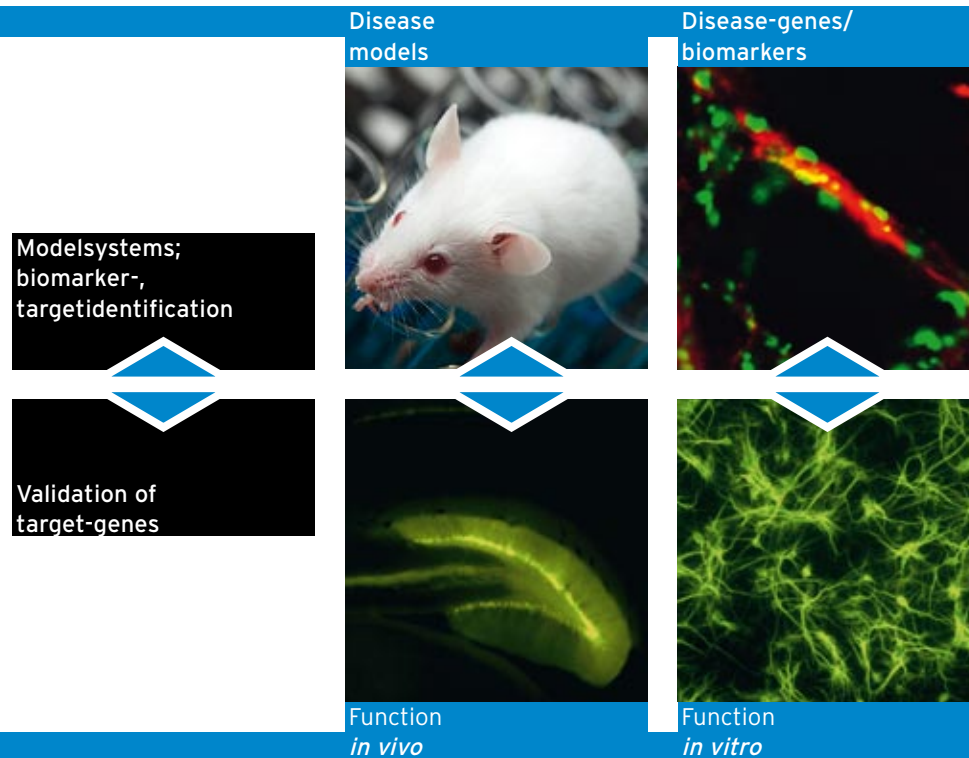
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TARGETVALIDATION AND MODELSYSTEM DEVELOPMENT



>> Available testsystems

- *In vivo* approaches (rat, mouse), animal facility
- Organotypic brain-slice cultures
- *In vitro* neuronal culture systems, variable culture formats

>> Moleculargenetic tools

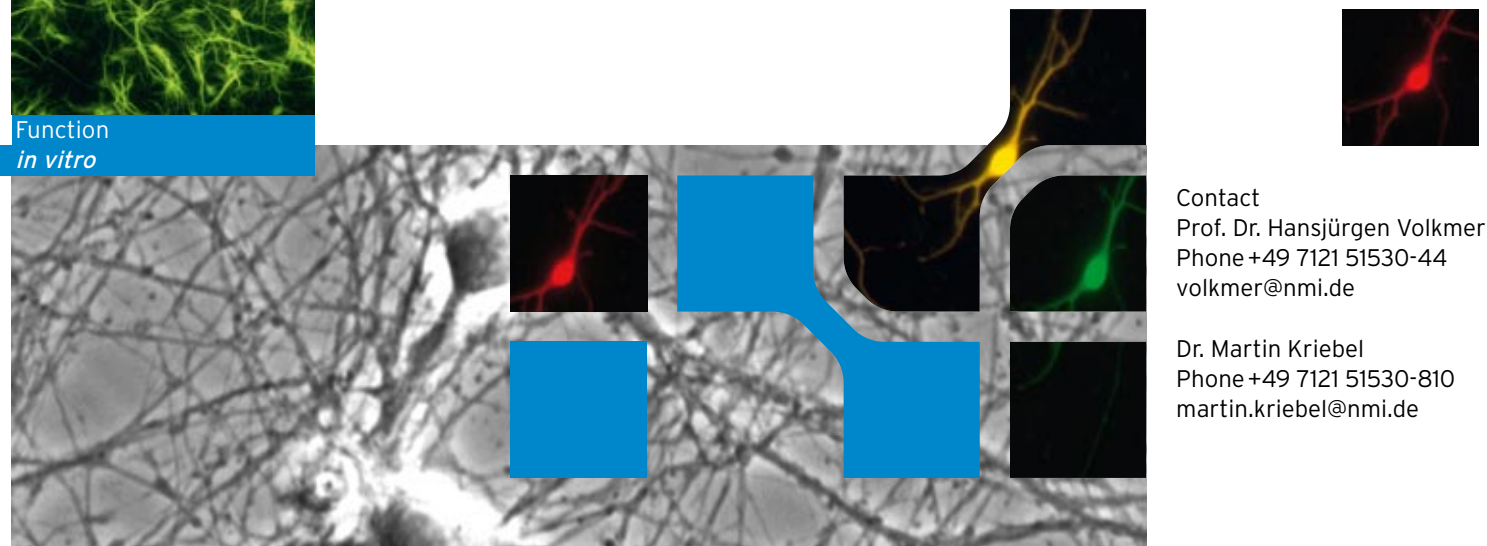
- Knockdown of genexpression via RNAi (miRNA, shRNA, siRNA)
- Expression of recombinant proteins
- Tissue-specific promoters for targeted genexpression
- Fluorescent markerproteins

>> Methods for efficient genetransfer

- Viral systems (lenti-, adenovirus)
- Stereotactic procedures for viral genetransfer *in vivo*
- Non-viral systems (transfection, electroporation/amaxa)

>> Spectrum of available analyses

- Immunocyto-/immunohistochemistry
- Confocal microscopy
- 3D-reconstructions and quantifications (single cell, tissue)
- Scalable assaysystems (cell viability, genexpression, apoptose, ROS)



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