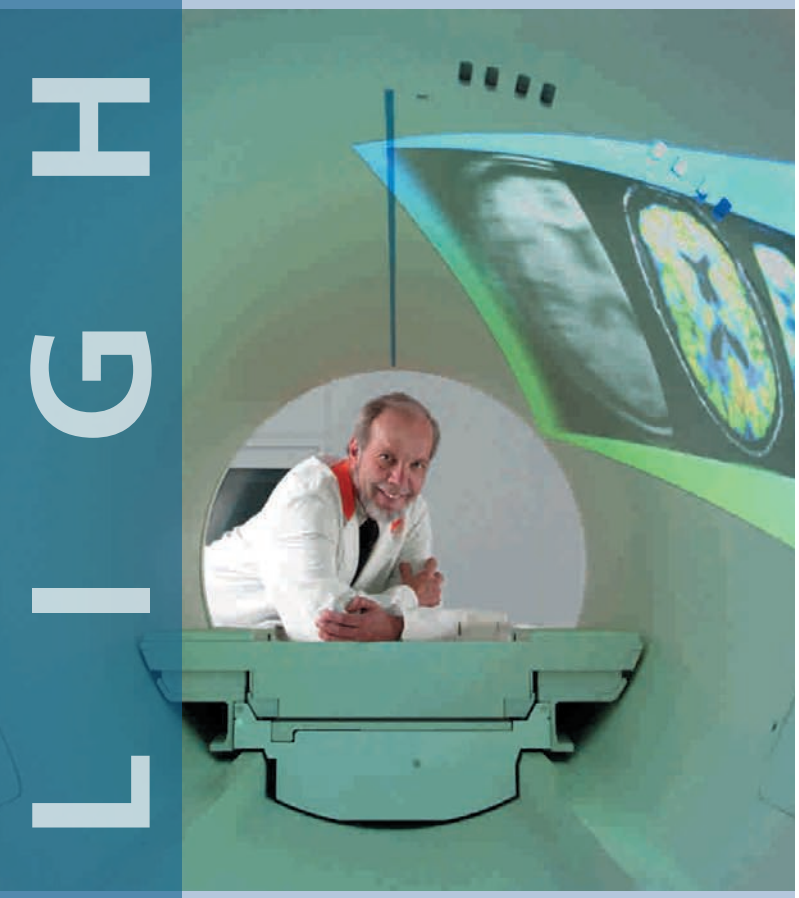
HIGHLIGHTS

HEALTH

BRAIN RESEARCH

JÜLICH FORSCHUNGSZENTRUM



Combined 9.4-tesla MR-PET

Alzheimer's and Parkinson's are central challenges facing our ageing society. This is the reason why scientists in Jülich conduct research at the interface between medicine and physics, for example with large-scale equipment such as the "9point4" currently being constructed. This device combines the advantages of magnetic resonance (MR) with those of positron emission tomography (PET). It will allow brain researchers to study structures and molecular mechanisms in the brain in resolutions that were previously impossible, and to create foundations for new therapies.

FACTS:

- "9point4" will be the first device worldwide in which a PET is coupled with such a powerful MRT (field intensity: 9.4 tesla).
- Industrial partner Siemens will provide half of the € 20 million required as investment costs for "9point4"; the rest of the costs will be covered by the German Federal Ministry of Education and Research.
- In Germany, 120,000 new cases of Alzheimer's disease are diagnosed every year.

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Further information available online: www.fz-juelich.de/projects/9komma4