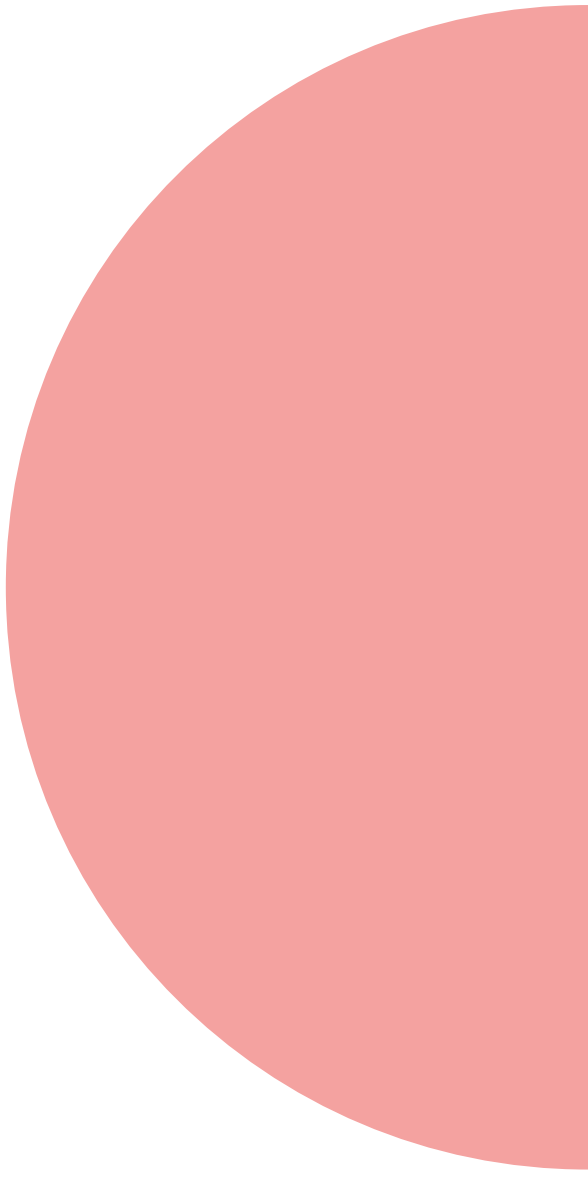




Leading research + *innovation*

in biomedicine and the life sciences

**Health + Life Science Alliance
Heidelberg Mannheim**



The Alliance – research and innovation *to improve human health*

● The Health + Life Science Alliance is an interinstitutional research and innovation initiative dedicated to the continuous improvement of human health. The Alliance stands for and enables groundbreaking, collaborative research and the application of sophisticated technological developments and ideas. Our goal is to deepen the understanding of the biology of human diseases and their treatment, laying the groundwork for entirely new therapeutic approaches.

Established by seven leading institutions in Heidelberg and Mannheim, the Alliance advances research and innovation through collaboration and joint platforms.

The initiative brings together world-leading life science and biomedical research institutions and assembles a highly diverse range of disciplines and a cluster of top researchers.

The Alliance will further develop existing cutting-edge research in the key areas of the life sciences and medicine into international beacons, strengthen transfer to industry and translation into medical applications, and make a key contribution to a new lead industry in Baden-Württemberg.

A catalyst for the Rhine-Neckar region

● In 2021, life science and medical institutions in the Rhine-Neckar region have joined forces to establish the Health + Life Science Alliance Heidelberg Mannheim. Based in the proximity of the world's first medical campus, the Heidelberg-Mannheim region is nowadays a top rated center for medical research and teaching. The Alliance has the ambitious vision to establish a world-leading hub in biomedicine and life sciences by taking a major leap forward in innovative, interinstitutional research, patient care and healthcare economics.

The Health + Life Science Alliance is supported by the State of Baden-Württemberg as part of its Innovation Campus strategy.



A centre of *excellence*

● With its decades-long growth of outstanding university and non-university life science research institutions, Heidelberg, Mannheim, and the entire Rhine-Neckar region are today exceptionally well positioned for top-level life science and biomedical research.

The seven founding institutions of the Alliance are:

- Heidelberg University of Excellence, with its two medical faculties
- German Cancer Research Center (DKFZ)
- European Molecular Biology Laboratory (EMBL)
- Max Planck Institute for Medical Research (MPIImR)
- Central Institute of Mental Health (ZI)
- University Hospital Heidelberg
- University Hospital Mannheim

Together, these institutions are breaking down barriers in research, pushing the frontiers of science, and building strong connections that benefit the region and beyond. Embedded in a strong economic ecosystem with international biomedical and more than 400 small and midsize companies the region offers ideal conditions for research and transfer.



Nationally and internationally leading

National



#1

Heidelberg University **ranked #1 in the Shanghai Academic Ranking of World Universities nationally** in the categories Life Sciences & Medicine



#1

Heidelberg **#1 for students** of the German Academic Scholarship Foundation

International



#17

Heidelberg University **internationally ranked 17 for clinical medicine**



#3

Heidelberg Mannheim region in **ERC Grants #3 in Europe NATURE Index for academic output # 4 in Germany**

Facts + *Figures*

- **Central Institute of Mental Health**

largest psychiatric/
psychotherapeutic research
institute in Germany

> 1.700 Employees

- **European Molecular Biology Laboratory**

Europe's flagship intergovernmental
research institution in the life
sciences with 29 members states

> 2.000 Employees
(900 in Heidelberg)

6 European research sites
(2 in Germany)

- **German Cancer Research Center**

largest cancer research institute
in Europe

> 3.500 Employees

National Center for Tumor Diseases
Heidelberg (NCT) as a joint facility
with University Medicine
Heidelberg

- **Heidelberg University**

10 collaborative research centers
in the life sciences/medicine
Medical faculty Heidelberg,
Medical faculty Mannheim,
Faculty of Biosciences,
Faculty of Engineering Sciences

> 7 life sciences centers and
outstanding natural sciences

> 7.700 medical students

- **Max Planck Institute for Medical Research**

4 Divisions

5 Research Groups

> 300 Employees

- **University Hospitals Heidelberg + Mannheim**

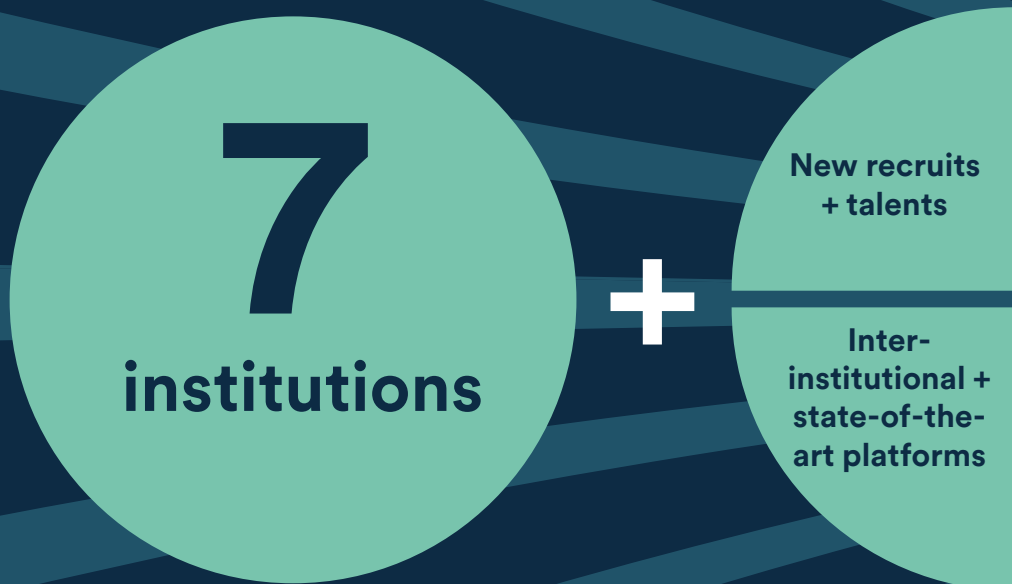
> 3.670 beds
(HD: 2.000; MA: 1.350)

> 19.540 Employees
(HD: 13.850; MA: 5.400)

> 138.170 inpatient/
part-time inpatient cases per year
(HD: 87.440; MA: 50.730)

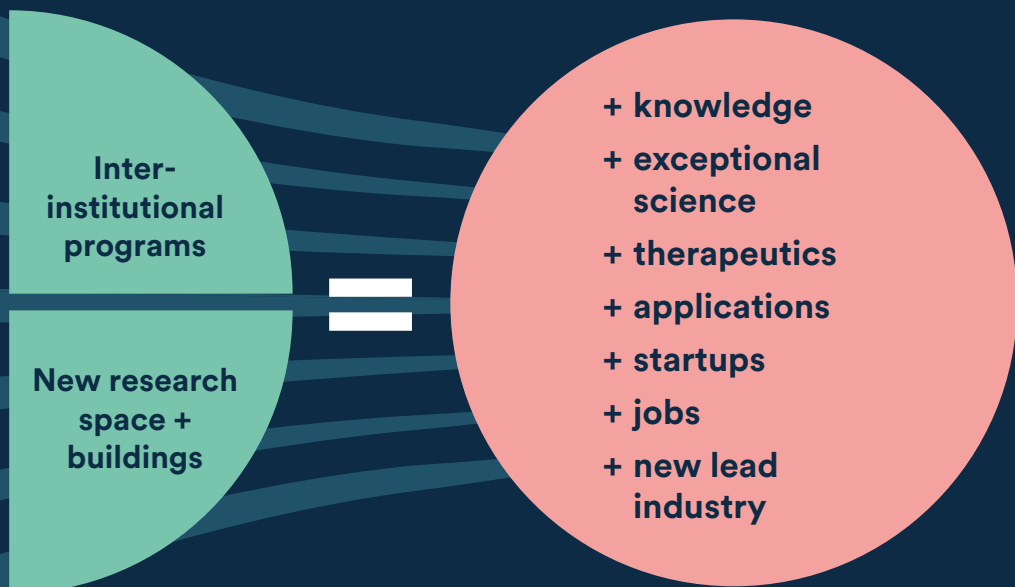
> 1.483.200 outpatient
cases per year (HD: 1.275.240;
MA: 207.960)

The Alliance *Method*



The Alliance *Effect*

1635
Project ideas

Transfer – Translation – Transformation

264 Funded projects

52 Alliance fellows

88 Alliance events

11 Clinical trials

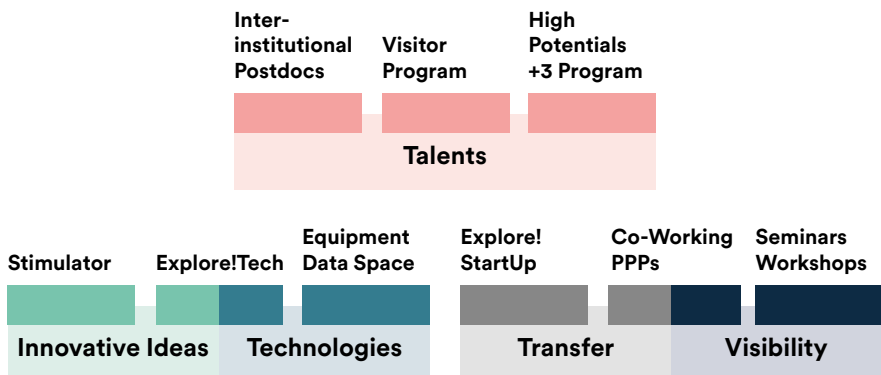
2 New platforms

1 ECTU

Recruitment support + *intramural seed funding*

● The Health + Life Science Alliance supports inter-institutional and interdisciplinary collaboration, promotes early-career researchers and encourages entrepreneurship. To create synergies and leverage potential across all partner institutions, the Alliance provides a wide range of funding opportunities ranging from fellowships to grants. These competitive funding lines serve to recruit international talents, establish joint technology platforms, stimulate project consortia and foster the interinstitutional collaboration, use of infrastructure, and transfer. Alliance funds are enabling funds: they are the basis to explore bold research ideas, they drive innovation and advance knowledge for subsequent success stories.

www.health-life-sciences.de/opportunities



The Alliance *voices*



“

“Collaboration is extremely important for frontline research, and thus, the Alliance makes something even better out of the top level research in the life sciences of the greater Heidelberg region.”

Maria Leptin

President of the European Research Council (ERC)



„Our project focusing on quantitative tissue analysis wouldn't be possible without the support of the Alliance. The MULTI-SPACE infrastructure is a critical addition to the region's unique science ecosystem and fosters a new focus area.“ **Denis Schapiro**, Heidelberg University, Medical Faculty + **Sinem Saka**, EMBL

*Denis
Schapiro*



*Sinem
Saka*



The support from the Alliance through the Explore!Tech funding line and the MULTI-SPACE platform grant was crucial to equip the Alliance with state-of-the-art spatial omics infrastructure and develop custom solutions for spatial omics analysis. This investment empowers both our labs at EMBL and Heidelberg University, and creates the opportunities for the entire Alliance community to apply cutting-edge spatially resolved multi-omics technologies and push the frontiers of biomedical discovery.

“The Alliance provides a platform for direct translation from clinic to research and back. This benefits not only our MYT1L patients but also patients and researchers more broadly.”

Maja Hempel, University Heidelberg

“

“For many brain disorders, there are no treatments. The Alliance demonstrates how translational brain research can be accelerated and how personalised therapies can become reality.” **Moritz Mall**, DKFZ

*Maja
Hempel*



*Moritz
Mall*



Developmental disorders such as autism are being diagnosed more often – yet targeted treatment options for the associated health challenges are still lacking. The Alliance connects clinical care, research, and technology to develop new solutions. In the rare MYT1L syndrome, we have used genetic analyses and patient-derived stem cell models to uncover disease mechanisms, identify a potential therapy with an already approved drug, and initiate the first compassionate-use treatments. This shows how research can be translated more rapidly for the benefit of those affected.

The Alliance

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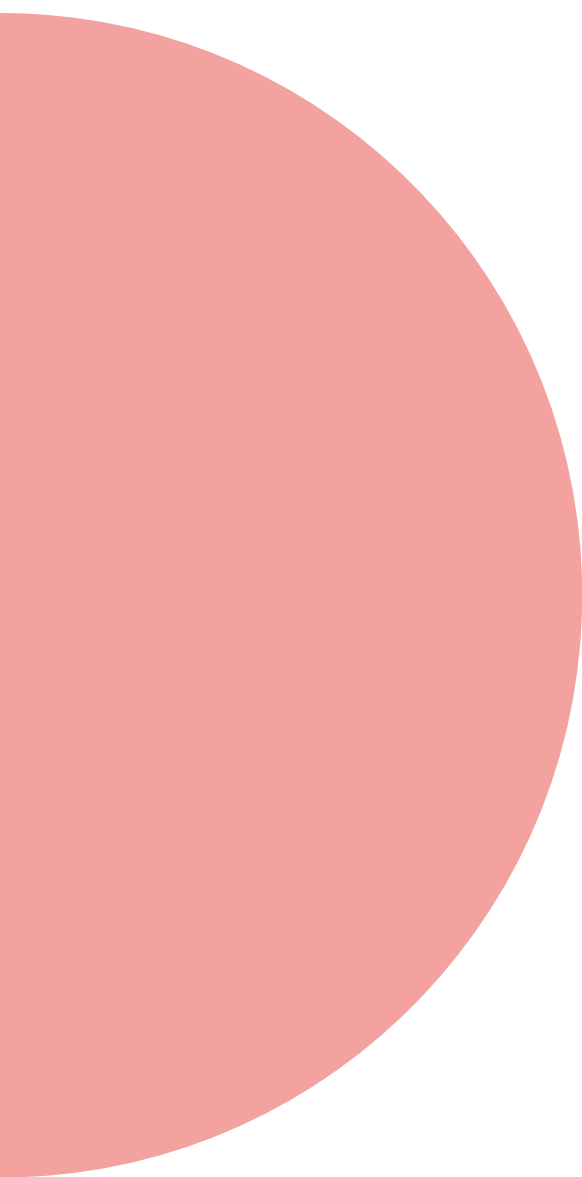
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The Health + Life Science Alliance Heidelberg Mannheim is supported by the State of Baden-Württemberg as part of its Innovation Campus strategy. The Innovation Campus is financed through state funds approved by the State Parliament of Baden-Württemberg.



Baden-Württemberg



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