

University : Fujita Health University (University Functions to be Enhanced : ①, ②)

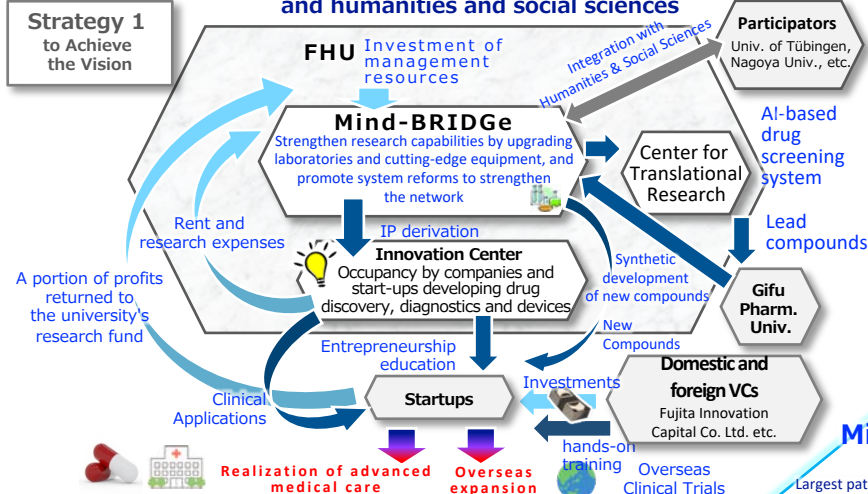
Collaborators : Hamamatsu University School of Medicine, National Institute for Physiological Sciences, Gifu Pharmaceutical University

Participators : Nagoya University, Mental and Neurological Medical Research Center, Nara Institute of Science and Technology, Quantum Science Research Development Organization, Toyohashi University of Technology, University of Helsinki, University of Tübingen, Cardiff University, Massachusetts Institute of Technology, University of California Irvine, Duke University, University of North Carolina, Nanyang Technological University in Singapore, Hong Kong University of Science and Technology.

Summary

Global Issue: Brain Diseases and Mental Disorders; i.e. Schizophrenia, Bipolar Disorder, Alzheimer's Disease

R&D ecosystem integrating data science, advanced medical science, and humanities and social sciences

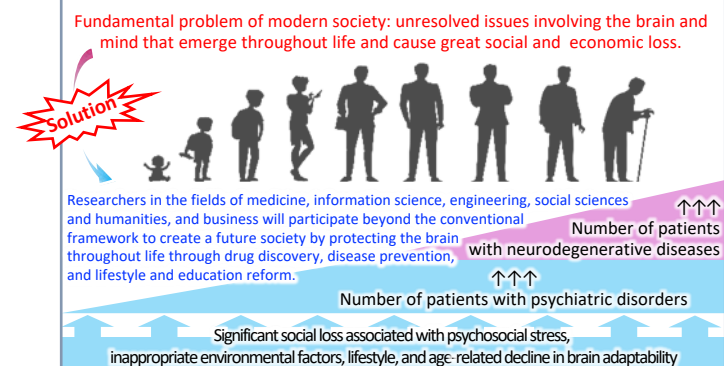


Fostering diverse human resources and career paths that challenge original and innovative research

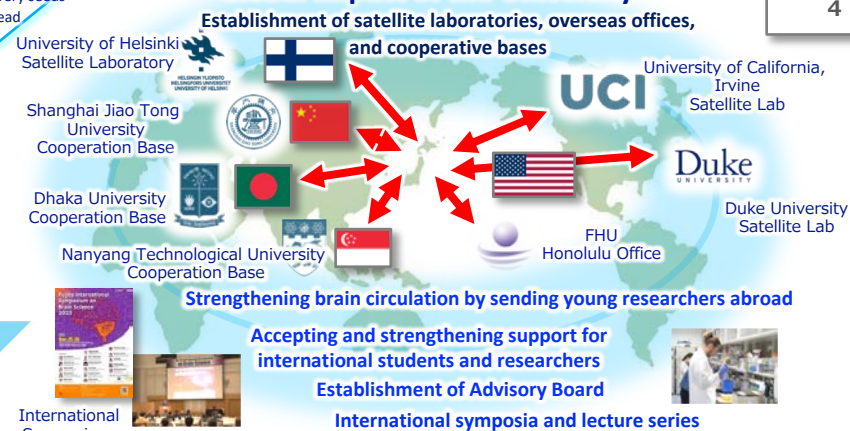


Strategy 2 Sustainable Research to Create Future Society

Proposing an academic field that integrates psychiatry, neurology, pediatrics, psychology, education, and cutting-edge neuroscience research to pursue lifelong brain health, growth, social adaptation, and resilience



Global Impact of the University







Vision in 10 years: Establish a world-class research center for psychiatric and neurological pathologies and establish a one-of-a-kind academic drug discovery ecosystem

Program for Forming Japan's Peak Research Universities (J-PEAKS)



Fujita Mind-BRIDGE: a 10-year plan to establish a "World-Class Academic Drug Discovery Ecosystem"

Targets	FY2025	FY2026	FY2027	FY2028	FY2029	Year10
<div>Strategy 1: Realize a hub for R&D and the ecosystem</div> 	<ul style="list-style-type: none">Establish drug discovery, neurodevelopment departments, and open labs., introduction of drug candidate screening and discovery equipment.Set up the Research Base Expansion Committee.	<ul style="list-style-type: none">Establish data science labs.Introduce mass spectrometry (FHU), mass imaging devices (HUSM), 7T-MRI (NIPS), and other analysis equipment at each university/institute.	<ul style="list-style-type: none">Develop molecular and cellular biological analytical systems using metabolomics and spatial gene/protein expression with multi-omics.	<ul style="list-style-type: none">Strengthen histological and functional analysis by introducing imaging systems into open labs, common equipment facilities, and animal experimentation facilities.	<ul style="list-style-type: none">Introduce electron microscope systems enabling spatial morphological analysis of cells at the Open Facility Center.	<ul style="list-style-type: none">Contribute to solving social issues through the practical application of integrated research results in the medical and health fields. <div>Achieving Advanced Medical Care</div>
<div>Strategy 2: Promote Sustainable Research</div> 	<ul style="list-style-type: none">Promote translational research and integrating broad expertise.Prepare for the next-gen medical development.Build an academic-driven drug discovery platform.Strengthen translational research seed exploration.	<ul style="list-style-type: none">Expand integrated research with psychology and education.Strengthen screening of new compounds. <p>Note: Implement plans during the period even if outside specified years (same approach applies to other areas).</p>	<ul style="list-style-type: none">Expand systems across the institution by Year 3 (also for other goals).Develop AI-based diagnostic and stratification methods.Real-world data (RWD) analysis.Deepen industry-academia collaboration.	<ul style="list-style-type: none">Accelerate translational research seed exploration. Full-scale synthesis and evaluation of new compounds with Gifu PU.Conduct preclinical trials and preparing for clinical trials.	<ul style="list-style-type: none">Begin clinical application of target disease seeds, including early disease detection systems and social implementation of new technologies.	<ul style="list-style-type: none">Create startups.Realize success stories in academic-driven drug discovery.Establish an international research network.
<div>Strategy 3: Fostering human resources and career paths</div> 	<ul style="list-style-type: none">Start the recruitment and training of research doctors, junior PIs, data scientists, young researchers, research technicians, URA, etc.Provide education and support for graduates (entrepreneurship, presentations, etc.).	<ul style="list-style-type: none">Full-scale support for research doctors, data scientists, etc., achieving a reduction in clinical duties for research doctors.Start full-scale operation of the research technician training program.	<ul style="list-style-type: none">Strengthen the development system for young researchers, including junior PIs.Start full-scale operation of a talent exchange program with overseas bases.	<ul style="list-style-type: none">Expand the URA office and establishing the URA Center by the same year.Expand the research doctor training program.Actively support participation of graduates and young researchers in overseas symposia, etc.	<ul style="list-style-type: none">By the end of the year, train 10 research doctors, 4 junior PIs, 10 data scientists, 10 young researchers, 15 research technicians, and 5 URA staff members.	<ul style="list-style-type: none">Achieve the goal of increasing talent, including doubling the number of research doctors, data scientists, and graduate students by FY2029.Establish an international brain circulation program.
<div>Strategy 4: University Global Impact</div> 	<ul style="list-style-type: none">Establish satellite labs and overseas hubs.Strengthen the support of international students and foreign researchers.Establish an advisory board of renowned international researchers.Host international symposia.	<ul style="list-style-type: none">Start short-term stays for young researchers at satellite labs.Strengthen the functions of overseas cooperation bases.Provide support for international students and foreign researchers.	<ul style="list-style-type: none">Continue and implement various efforts.Expand systems and knowledge related to internationalization across the institution.Mid-term evaluation by the advisory board.	<ul style="list-style-type: none">Continue and implement each effort.Strengthen the overseas research network.Implement reforms based on the advisory board's evaluation.	<ul style="list-style-type: none">Establish a research network through satellite labs and cooperation bases.Evaluation by the advisory board.Expand the knowledge and systems of the project to external institutions.	<ul style="list-style-type: none">Implement reforms based on the advisory board's evaluation.Returning researchers and international students recruiting the next generation of overseas researchers and international students.