

MEXT: Ministry of Education, Culture, Sports, Science and Technology  
METI: Ministry of Economy, Trade and Industry  
JST: Japan Science and Technology Agency  
AMED: Japan Agency for Medical Research and Development

■ Industry-Academia Joint Project of Human Resources Development for the Acceleration of AI Research Development in the Field of Healthcare (MEXT)

Funding Period	Project	Research Director
2020–2024	Human Resources Development Program “Cutting Edge AI Research Development for the Solution of Global × Local Medical Problems”	KUDO Kohsuke, M.D., Ph.D. Professor, Department of Diagnostic Imaging

■ Promotion Plan for the Platform of Human Resource Development for Cancer (MEXT)

Funding Period	Project	Research Director
2023–2028	Hokkaido cancer specialist training plan intended to contribute to the community	AOYAMA Hidefumi, M.D., Ph.D. Professor, Department of Radiation Oncology

■ Growth-oriented SMEs Technology Development Support Grant Program (METI Hokkaido)

Funding Period	Project	Research Director
2023–2025	Research on innovatitive cell therapy product focusing on chronic stroke patients	KAWABORI Masahito, M.D., Ph.D. Lecturer, Department of Neurosurgery

■ Advanced Research & Development Programs for Medical Innovation (AMED)

Funding Period	Program	Research Representative
2021–2026	Study of host cell membrane and ion dynamics during virus infection	OHBA Yūsuke, M.D., Ph.D. Professor, Department of Cell Physiology
2022–2027	Creation of new virology research using innovative reverse genetics	FUKUHARA Takasuke, M.D., Ph.D. Professor, Department of Microbiology and Immunology

■ Practical Research Project for Rare/Intractable Diseases (AMED)

Funding Period	Program	Research Representative
2022–2024	Evidence-generating research to establish a disease registry and treatment for immune-mediated cerebellar ataxia, an ultra-rare and intractable disease	YAGUCHI Hiroaki, M.D., Ph.D. Associate Professor, Department of Neurology
2024–2026	Establishment of diagnostic methods for revertant skin in epidermolysis bullosa	NATSUGA Ken, M.D., Ph.D. Associate Professor, Department of Dermatology

■ Practical Research for Innovative Cancer Control (AMED)

Funding Period	Program	Research Representative
2022–2024	A multi-institutional randomized phase III trial to confirm the superiority of pelvic and para-aortic lymphadenectomy over pelvic lymphadenectomy for endometrial cancer at risk of lymph node metastasis	WATARI Hidemichi, M.D., Ph.D. Professor, Department of Obstetrics and Gynecology
2023–2025	The development of new treatment of superselective intra-arterial infusion of cisplatin and concomitant radiotherapy for patients with locally advanced maxillary sinus cancer	HOMMA Akihiro, M.D., Ph.D. Professor, Department of Otolaryngology-Head and Neck Surgery
2024–2026	A single-arm, open-label, Phase II Trial to evaluate the safety and efficacy of Photo-immunotherapy using ASP-1929 for locally advanced/recurrent Vulvar, Vaginal, and Cervical cancer	WATARI Hidemichi, M.D., Ph.D. Professor, Department of Obstetrics and Gynecology

■ Research Program on Hepatitis / Program for Basic and Clinical Research on Hepatitis (AMED)

Funding Period	Program	Research Representative
2023–2025	Study on novel glycomarkers for non-invasive assessment of liver fibrosis	SAKAMOTO Naoya, M.D., Ph.D. Professor, Department of Gastroenterology and Hepatology
2024–2026	Development of a Novel Liver Fibrosis Treatment and Establishment of a Therapeutic Drug Development Platform, by Using hepatocyte, Non-Parenchymal Hepatic Cells and T-Cell Targeted lipid nanoparticle	SUDA Goki, M.D., Ph.D. Lecturer, Department of Gastroenterology and Hepatology

■ Research Program on Hepatitis / Program on the Innovative Development and Application of New Drugs for Hepatitis B (AMED)

Funding Period	Program	Research Representative
2022-2024	High-throughput screening of antiviral seed compounds by using HBV cell culture and antiviral response reporter models	SAKAMOTO Naoya, M.D., Ph.D. Professor, Department of Gastroenterology and Hepatology
2022-2024	Development of genome-editing drugs of adenovirus vector expressing eight multiplex guide RNAs using models of HBV replication in humanized mice and of HBV carcinomas	FUKUHARA Takasuke, M.D., Ph.D. Professor, Department of Microbiology and Immunology
2022-2024	Study of the clinical significance of previous infection with HBV in HCC and the molecular mechanism of hepatocarcinogenesis in HBc antibody positive patients	TAKETOMI Akinobu, M.D., Ph.D. Professor, Department of Gastroenterological Surgery I

■ Project for Promotion of Cancer Research and Therapeutic Evolution (P-PROMOTE) (AMED)

Funding Period	Program	Research Representative
2024-2025	Development of hydrogel-based regulation of tumor heterogeneity for basis of novel cancer diagnosis and therapy	TANAKA Shinya, M.D., Ph.D. Professor, Department of Cancer Pathology

■ Translational Research Program (AMED)

Funding Period	Program	Research Representative
2023-2024	Study of the package required for a non-clinical POC for drug efficacy prediction by the opto-diagnostics “Pickles”	OHBA Yusuke, M.D., Ph.D. Professor, Department of Cell Physiology
2023-2024	Research for intracerebral transplantation of advanced interventional regenerative product made of bone marrow mesenchymal stem cells and recombinant scaffold against patient with chronic cerebral hemorrhage. (RAINBOW-HX)	FUJIMURA Miki, M.D., Ph.D. Professor, Department of Neurosurgery
2024-2027	Physician-initiated clinical trials to investigate the safety and durability of an innovative MRI-based modality for the early diagnosis of articular cartilage lesions using O-17-labeled water.	ONODERA Tomohiro, M.D., Ph.D. Associate Professor, Department of Orthopedic Surgery

■ Medical Device Research and Development Programs Focused on Technology Transfers (AMED)

Funding Period	Program	Research Representative
2022-2024	Study of the development for new medical device program supporting automated diagnosis of frailty in elderly patients with heart failure	NAGAI Toshiyuki, M.D., Ph.D. Associate Professor, Department of Cardiovascular Medicine

■ Medical Research and Development Programs Focused on Technology Transfer: Strategic Promotion of Innovative Research and Development (AMED)

Funding Period	Program	Research Representative
2023-2024	Development of guidance on cadaver studies in medical device development	SHICHINOHE Toshiaki, M.D., Ph.D. Associate Professor, Department of Gastroenterological Surgery II

■ Project Promoting Support for Drug Discovery: The iD3 Booster (AMED)

Funding Period	Program	Research Representative
2021-2024	Screening of chemical inhibitors targeting an indispensable gene for the cell proliferation and survival in T-cell lymphoma	NAKAGAWA Masao, M.D., Ph.D. Assistant Professor, Department of Hematology

■ Special Expenditures (MEXT)

Funding Period	Faculties	Project	Leader
2021-2025	Faculty of Medicine	Project for the Promotion of Cause of Death Investigation and Comprehensive Human Resources Development through Multi-disciplinary Collaboration	HATAKEYAMA Shigetugu, M.D., Ph.D. Dean