

## FY2021 Adopted International Joint Research Projects

New Projects ( 4 Projects)

(1) Joint Research Area: Development of Cutting Edge Medical Therapies ( 2 Projects)

Adoption year	IDNo.	Principal Investigator	PI's Institution	Project Title	IMSUT Host Researcher
2021	K1011	Emmanuelle Passegué	Columbia University Irving Medical Center (CUMC)	Development of novel therapeutics targeting hematopoietic stem cell (HSC) aging	IWAMA Atsushi
2021	K1012	John F. Tisdale, M.D.	Cellular and Molecular Therapeutics Branch, National Heart, Lung, and Blood Institute, National Institutes of Health	Development of a small-size lentiviral vector for efficient vector production and gene marking	UCHIDA Naoya

(2) Joint Research Area: Genome/Cancer/Disease Systems Biology ( 2 Projects)

Adoption year	IDNo.	Principal Investigator	PI's Institution	Project Title	IMSUT Host Researcher
2021	K2014	Jacob Corn	ETH Zurich	Unbiased evaluation of CRISPR-Cas3 mediated genome editing in cells	MASHIMO Tomoji
2021	K2015	Heinrich Leonhardt	University Munich	Regulation and Function of DNA methylation	NAKANISHI Makoto

(3) Joint Research Area: Infectious Diseases and Immunology ( 0 Projects)

Adoption year	IDNo.	Principal Investigator	PI's Institution	Project Title	IMSUT Host Researcher
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## FY2021 Adopted International Joint Research Projects

Extension Projects ( 21 Projects)

### (1) Joint Research Area: Development of Cutting Edge Medical Therapies ( 5 Projects)

Adoption year	IDNo.	Principal Investigator	PI's Institution	Project Title	IMSUT Host Researcher
2019	K1001	CHENG, Yusheng	Sun Yat-sen University	New treatment strategy in acute on chronic liver failure using iPS cell derived liver organoids	TANIGUCHI Hideki
2019	K1002	Joydeep Bhadury	Stanford University	Chimera formation assay with cynomolgus monkey embryos in vitro	NAKAUCHI Hiromitsu
2020	K1006	He Haiping	The Affiliated Hospital of Kunming University of Science and Technology ( The first people's hospital of Yunnan province)	The study of immunological activation mechanism of umbilical cord-derived mesenchymal stromal cells	NAGAMURA-INOUE Tokiko
2020	K1007	Jacques-Olivier Coq	Institut de Neurosciences de la Timone, UMR7289 CNRS/Aix-Marseille Univ.	Mesenchymal Stromal Cell Therapy to Prevent Neurodevelopmental Disorders related to Low-Birth-Weight	NAGAMURA-INOUE Tokiko
2020	K1008	Lars Eckmann	Department of Medicine, University of California San Diego	Novel therapy of intestinal inflammation/infection by targeting mucosal interface	HIRATA Yoshihiro

### (2) Joint Research Area: Genome/Cancer/Disease Systems Biology ( 8 Projects)

Adoption year	IDNo.	Principal Investigator	PI's Institution	Project Title	IMSUT Host Researcher
2019	K2004	Zhihai Qin	Institute of Biophysics, CAS	To screen the natural biological compound to decrease the cytokine level derived from T cells	KAWAGUCHI Yasushi
2019	K2005	Alejandro Soto-Gutierrez	University of Pittsburgh School of Medicine, Department of Pathology	Generation of iPS-derived human hepatocytes in rat liver	MASHIMO Tomoji
2019	K2006	Watcharin Loilome, PhD	Khon Kaen University, Faculty of Medicine	Establishment of drug testing system for a precision medicine in cholangiocarcinoma	MURAKAMI Yoshinori
2019	K2007	Omar Abdel-Wahab	Memorial Sloan Kettering Cancer Center	Analysis of plethora of ASXL functions under physiological and pathological conditions	KITAMURA Toshio
2020	K2010	Estelle Duprez	Centre de Recherche en Cancérogénie de Marseille (CRCM), Institut-Paoli Calmettes (IPC), U1068 INSERM	Molecular signature of hematopoietic aging	IWAMA Atsushi
2020	K2011	Hyeseong Cho	Ajou University School of Medicine	Molecular mechanisms underlying eukaryotic chromosome segregation	NAKANISHI Makoto
2020	K2012	Xiao-dong He	Cheeloo College of Medicine, Shandong University	Study on gene regulation and histone lactating in cancer	NAKANISHI Makoto
2020	K2103	Teh Bin Tean	National Cancer Centre of Singapore	Exploration of novel carcinogenesis processes by elucidating genomic signatures in Asian cancers	SHIBATA Tatsuhiro

## (3) Joint Research Area: Infectious Diseases and Immunology ( 8 Projects)

Adoption year	IDNo.	Principal Investigator	PI's Institution	Project Title	IMSUT Host Researcher
2019	K3001	Eicke Latz	Institut für Angeborene Immunität Universitätsklinik Bonn, Universität Bonn	Studying roles of Toll-like receptor 9 in autoimmune diseases	MIYAKE Kensuke
2019	K3002	Peter B. Ernst	University of California, San Diego	Intratissue cohabitation of commensal bacteria for immunity and symbiosis	FUJIHASHI Kohtaro
2019	K3003	Robert Gifford	MRC-University of Glasgow Centre for Virus Research	Impact of human endogenous retroviruses on virus infections, human diseases, and evolution	SATO Kei
2019	K3005	Xiyun Yan	Institute of Biophysics, CAS	A nanocaged nanobody display platform for infectious diseases detection and therapy	KAWAGUCHI Yasushi
2019	K3006	Kaixia Mi	Institute of Microbiology, Chinese Academy of Sciences	Establishment of a model system of co-infection of Mycobacterium and HIV in human monocyte cell lines to study their interactions	KAWAGUCHI Yasushi
2019	K3009	Anna Katharina (Katja) SIMON	Kennedy Institute of Rheumatology, Oxford University	Elucidation of mechanisms involved in tissue specific immunity during infection	Cevayir COBAN
2019	K3010	Peter Katsikis	Department of Immunology, Erasmus MC, University Medical Center Rotterdam	Systems Immunology of human vaccine and immunotherapy	Ken J. Ishii
2020	K3012	Catherine Tsai	University of Auckland	Development of M2e-based intranasal universal influenza vaccine utilizing PiVax platform	FUJIHASHI Kohtaro