

Dean's Office

Project Coordination Office

プロジェクトコーディネーター室

| Professor Makoto Nakanishi, M.D., Ph.D.

| 教授 医学博士 中西 真

Our major missions are to coordinate institutional projects, enhance the mutual cooperation, alliance among teaching and research staff, administration staff, and technical staff, in order to execute the activities in our institute effectively. For these purposes, we carry out several tasks such as planning for new institutional research programs and symposiums, fundraising, supporting international students and researchers, outreach activities, providing academic advice to administration staff, and other projects directed by the dean.

1. Support for the management of institutional projects

Kiyomi Nakagawa, Yoko Udagawa

We served as a secretariat of institutional projects implemented by the Institute of Medical Science, the University of Tokyo (IMSUT) and supported their management. The projects supported are as follows:

- "Studies to Control Emerging, Re-emerging and Imported Infectious Diseases to Be Conducted in International Collaboration Sites in China" supported by Japan program of Infectious Diseases Research and Infrastructure from Japan Agency for Medical Research and Development (AMED)
- "World-leading Innovative Graduate Study Program for Life Science and Technology (WINGS-LST)" supported by the Doctoral Program for World-leading Innovative & Smart Education from Japan Society for the Promotion of Science (JSPS)

2. International Joint Usage/Research Center Program of MEXT

Junko Tsuzuku, Kaori Inoue, Ayako Miyake

IMSUT was authorized by MEXT as a Joint Usage/Research Center in 2009 and began its activity in 2010. The center's main activity is to implement joint re-

search projects, accepting applications from researchers at universities and research institutions inside and outside Japan, to organize academic gatherings such as international symposia, and meetings as well as seminars for young researchers, and to publish activity reports on our website. In addition to the above-mentioned activities, we edit documents pertaining to various investigations, and submit evaluation reports to MEXT in collaboration with the Research Promotion Team, Research Support Division, Administration Office. IMSUT was authorized as an International Joint Usage/Research Center by MEXT in November 2018 and approved to continue the center program for the next six years in line with MEXT's policy in December 2021. In this capacity, we will continue our utmost efforts to further expand this program both on domestic and international levels.

3. Data acquisition about research and educational activities of IMSUT

Kiyomi Nakagawa, Ayako Miyake

We collected and stocked data using an original format to construct a data system available any time for evaluation, submission of various reports, public relation activities, and basic data for application of external funds

4. Others

Kiyomi Nakagawa, Ayako Miyake, Yoko Udagawa

a. Educational activities:

- Support for the call for application and selection of the Outstanding Student Publication Award of IMSUT

b. International activities:

- Support for conclusion and renewal of MOUs
- Support for delegation and management of international exchange events, “East Asia Joint Symposium on Biomedical Research” and “International Symposium of the Institute Network for Biomedical Sciences”
- Translation of documents and manuscripts

- Support for foreign researchers in English
- Support for reception of overseas visitors
- Support for management of the University of Tokyo New York Office, Inc. and its event organization
- Planning and running of get-together party for international students and foreign researchers

c. Public relations:

- Support for information update of IMSUT website
- Edition of brochures of IMSUT (Japanese and English version) and support for edition of the Annual Report

d. Support for evaluation work:

- National university corporation evaluation
- Self-review and self-evaluation of IMSUT
- External review of IMSUT

Dean's Office

Research Platform Office

学術研究基盤支援室

Chair and Professor

Mutsuhiro Takekawa, M.D., Ph.D.

Advisor and Senior Professor

Jun-ichiro Inoue, Ph.D.

教授・室長

博士(医学)

武川 睦 寛

特命教授・アドバイザー

薬学博士

井上 純一郎

"Platforms for Advanced Technologies and Research Resources" (platform.umin.jp/) was launched in fiscal year (FY) 2022 under the new framework of the Grant-in-Aid for Transformative Research Areas (A) by the Ministry of Education, Culture, Sports, Science and Technology (MEXT). It consists of six platforms, of which four platforms are supporting researches in life science. They are the platforms that have been developed from and strengthened the previous programs "Support Programs for Three Fields in Life Sciences (Cancer, Genome and Brain Sciences) (FY 2010-2015) and "Platforms for Advanced Technologies and Research Resources (FY2016-2021)". "Platforms for Advanced Technologies and Research Resources" aims to establish the academic research support platforms to efficiently support various needs of the researchers in grants-in-aid. It also aims to work in close cooperation with the relevant core bodies such as Inter-University Research Institutes and Joint Usage/ Research Centers. This office mainly plays the role of the representative secretariat of the "Committee on Promoting Collaboration in Life Sciences" that is an academic collaborative foundation and cooperates with the four platforms mentioned above. The objective is to contribute the further development of the academic research in Japan through providing the cutting-edge technologies and biological resources to the individual researchers on life science KAKENHI (Grants-in-Aid for Scientific Research). We also aim to promote cooperation among researchers across support functions and cross-disciplinary, as well as human resource development. To achieve the goal, the General Management Group was organized to facilitate a close cooperation between four platforms comprising 54 universities and 23 research institutions nationwide which provide more than 80 support functions. This office was established in this Institute as Dean's Office in 2016 in order to strengthen the flexible management. Further, we hold several Management Board Meetings in which 21 members participated: four platform representatives and 17 board members, to construct a cooperative system to facilitate a cross-over support functions and to provide technical support with the universities and research institutions nationwide

Management of “Committee on Promoting Collaboration in Life Sciences” and the two platforms: Advanced Animal Model Support (AdAMS) and Cohort Study and Biospecimen Analysis (CoBiA):

Jun Saito, Tomoko Fujita, Yuko Sonoda, Jun-ichiro Inoue, and Mutsuhiro Takekawa

The following activities have been performed under the management of this office in 2022.

1. Planning and organization of the budgetary allocation.
2. One-stop service for applicants through the home page.
3. Organization of the events for developing young scientists and interdisciplinary researches.
4. Holding public symposiums on the relation of life science and society.
5. Holding the explanatory meeting for possible applicants.
6. Conducting public relations activities such as posting the committee’s banner on home page of various scientific meetings.
7. Creating a video to promote our activities and upload it on YouTube.
8. Facilitating cooperative networks between our platforms and other domestic or international groups that support life science researches.

Dean's Office

International Affairs Office

国際学術連携室

| Professor Makoto Nakanishi, M.D., Ph.D.

| 教授 医学博士 中西 真

International Affairs Office consists of two parts: one concerned with public relations and the other with language assistance. The office is responsible for public relations activities strategy and publishes new information about a variety of scientific research of IMSUT on its official website and social media. The office also works towards increasing IMSUT's international presence by issuing press releases both in Japanese and English, holding press conferences, and editing public relations magazines of IMSUT. For its part in language assistance, the staff contributes to the creation of a favourable environment for international members of IMSUT by providing Japanese-English (or vice versa) language support including translation of useful information and official documents.

1. Publication of Press Releases on IMSUT research results

Asako Shimizu

The office issued press releases on various new findings from IMSUT, including SARS-CoV-2, Genomic medicine, intractable diseases, and distributed Japanese press releases to media institutions and science journalists strategically. The office also disseminated English press releases to the global community of science journalists through the official website, social media such as Twitter, along with the international public relations website "Eurek Alert!".

2. Publication of the Public Relations magazine

Asako Shimizu

The office worked closely with the faculty members who belong to the public relations magazine working group and published PR magazine "PLATI-

NUM STREET TIMES" featuring IMSUT's research achievements on the latest aging studies, artificial intelligence (AI) and cancer research in June and December 2022.

3. Language Assistance

Kazuyo Ohara

In 2022, with the COVID-19 pandemic still evolving and impacting on the health and wellbeing of the IMSUT members, the International Affairs Office worked closely with the administrative staff to provide international members of IMSUT with important notices and latest information in English. This includes the Dean's messages and brief outlines of the preventive guidelines which were frequently updated by the UTokyo Novel Coronavirus Task Force. The office also vigorously undertook various other translation works and proofreading, aiming to create a favourable environment for international members of IMSUT by offering tailored language services.

Dean's Office

BioBank Japan

バイオバンク・ジャパン

Professor	Yuji Yamanashi, Ph.D.
Visiting Professor	Takayuki Morisaki, M.D., Ph.D.
Project Professor	Koichi Matsuda, M.D., Ph.D.
Adjunct Professor	Yoichiro Kamatani, M.D., Ph.D.

教授	理学博士	山梨	裕司
客員教授	医学博士	森崎	隆幸
特任教授	博士(医学)	松田	浩一
連携教授	博士(医科学)	鎌谷	洋一郎

In 2003, BioBank Japan (BBJ) started establishing one of the world's largest disease biobanks, creating a foundation for genomic and clinical research. From a total of 267,000 patients representing 440,000 cases of 51 primarily multifactorial diseases, BBJ has collected DNA, serum, medical records. BBJ is promoting the utilization of the registered samples and data acquired over the years, resulting in important research findings contributing to the realization of genomic medicine.

Publication

- 1: Jie Zheng, Yuemiao Zhang, Humaira Rasheed, Venexia Walker, Yuka Sugawara, Jiachen Li, Yue Leng, Benjamin Elsworth, Robyn E Wootton, Si Fang, Qian Yang, Stephen Burgess, Philip C Haycock, Maria Carolina Borges, Yoonsu Cho, Rebecca Carnegie, Amy Howell, Jamie Robinson, Laurent F Thomas, Ben Michael Brumpton, Kristian Hveem, Stein Hallan, Nora Franceschini, Andrew P Morris, Anna Köttgen, Cristian Pattaro, Matthias Wuttke, Masayuki Yamamoto, Naoki Kashihara, Masato Akiyama, Masahiro Kanai, Koichi Matsuda, Yoichiro Kamatani, Yukinori Okada, Robin Walters, Iona Y Millwood, Zhengming Chen, George Davey Smith, Sean Barbour, Canqing Yu, Bjørn Olav Åsvold, Hong Zhang, Tom R Gaunt. Trans-ethnic Mendelian-randomization study reveals causal relationships between cardiometabolic factors and chronic kidney disease. 2021 Apr 5;36(24):5567-5570. *Int J Epidemiol* 2022 Jan 6;50(6):1995-2010.
- 2: Takahiro Mori, Kazuko Ueno, Katsushi Tokunaga, Yosuke Kawai, Koichi Matsuda, Nao Nishida, Keigo Komine, Sakae Saito, Masao Nagasaki, BioBank Japan Project A single-nucleotide-polymorphism in the 5'-flanking region of MSX1 gene as a predictive marker candidate for platinum-based therapy of esophageal carcinoma Environment Interaction Study Ther Adv Med Oncol. 2022 Feb 24;14:17588359221080580.
- 3: Yoshinori Murakami [Cohorts and Biobanks as Essential Resources for Cancer Research] *Gan To Kagaku Ryoho*. 2022 Feb;49(2):129-132.
- 4: Hideki Mutai, Yukihide Momozawa, Yoichiro Kamatani, Atsuko Nakano, Hirokazu Sakamoto, Tetsuya Takiguchi, Kiyomitsu Nara, Michiaki Kubo & Tatsuo Matsunaga Whole exome analysis of patients in Japan with hearing loss reveals high heterogeneity among responsible and novel candidate genes *Orphanet J Rare Dis*. 2022 Mar 5;17(1):114.
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- Cell Genom. 2022 Mar 9;2(3):110882.
- 6: Keiko Hikino, Masaru Koido, Nao Otomo, Kohei Tomizuka, Shiro Ikegawa, Koichi Matsuda, Yukihide Momozawa, Biobank Japan Project; Taisei Mushiroda, Chikashi Terao Genome-wide association study of colorectal polyps identified highly overlapping polygenic architecture with colorectal cancer *J Hum Genet.* 2022 Mar;67(3):149-156.
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 - 8: Mars N, Kerminen S, Feng YA, Kanai M, Läll K, Thomas LF, Skogholt AH, Della Briotta Parolo P; Biobank Japan Project; FinnGen, Neale BM, Smoller JW, Gabrielsen ME, Hveem K, Mägi R, Matsuda K, Okada Y, Pirinen M, Palotie A, Ganna A, Martin AR, Ripatti S. Genome-wide risk prediction of common diseases across ancestries in one million people. *Cell Genom.* 2022 Apr 13;2(4):None.
 - 9: Yukihide Momozawa, Rumi Sasai, Yoshiaki Usui, Kouya Shiraishi, Yusuke Iwasaki, Yukari Taniguchi, Michael T. Parsons, Keijiro Mizukami, Yuya Sekine, Makoto Hirata, Yoichiro Kamatani, Mikiko Endo, Chihiro Inai, Sadaaki Takata, Hidemi Ito, Takashi Kohno, Koichi Matsuda, Seigo Nakamura, Kokichi Sugano, Teruhiko Yoshida, Hidewaki Nakagawa, Keitaro Matsuo, Yoshinori Murakami, Amanda B. Spurdle, Michiaki Kubo Expansion of Cancer Risk Profile for BRCA1 and BRCA2 Pathogenic Variants *JAMA Oncology* 2022 Apr 14.
 - 10: Lu TP, Kamatani Y, Belbin G, Park T, Hsiao CK. Editorial: Current Status and Future Challenges of Biobank Data Analysis *Front Genet.* 2022 Apr 14;13:882611.
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