

Advanced Clinical Research Center

Division of Advanced Medicine Promotion

先端医療開発推進分野

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Our mission is to assist the development of translational research. For this purpose, it is critical to discover new “seeds” and to eradicate blockades until the clinical utilization. We also assist the conduct of clinical trials at IMSUT Hospital. At IMSUT Hospital, we work together with the staffs of Center for Translational Research. Concurrently, to concur blockades on translational research, we have been engaging in research on regulatory science and biostatistics.

1. Assistance of Clinical Trials/TRs at Research Hospital

Masanori Nojima, Fumitaka Nagamura

At IMSUT Hospital, we work together with the staffs of Center for Translational Research. The assistance of Translational (Clinical) Research Coordinators is indispensable for the conduct of clinical trials, especially for TR. The activities of Coordinators are the results of the collaboration between Division of Advanced Medicine Promotion and Center for Translational Research. In 2014 we assisted in the preparation and implementation of four investigator-initiated clinical trials.

2. Approach for multi-omics research by methodology of bioinformatics and biostatistics

Masanori Nojima

Multi-omics research using clinical samples in col-

laborative study or public database of comprehensive omics-analysis, integrating metabolome, DNA methylome, transcriptome, etc.

3. Epidemiological study using NDB (National Database of Health Insurance Claims and Specific Health Checkups of Japan)

Masanori Nojima

We are conducting multiple large-scale epidemiological studies utilizing NDB database, focusing on Specific Health Checkups, long COVID, etc.

4. Statistical consulting for basic research

Masanori Nojima

For basic researchers, we suggest exploratory statistical approach and molecular epidemiological approach.

Publications

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 3. Kataoka K, Nishizaki Y, Shimizu T, Yamamoto Y, Shikino K, Nojima M, Nagasaki K, Fukui S, Nishiguchi S, Katayama K, Kurihara M, Ueda R, Kobayashi H, Tokuda Y. Hospital Use of a Web-Based Clinical Knowledge Support System and In-Training Examination Performance Among Postgraduate Resident Physicians in Japan: Nationwide Observational Study. *JMIR Med Educ.* 2024 May 30;10:e52207. doi: 10.2196/52207. PMID: 38825848; PMCID: PMC11154652.
 4. Onishi K, Nojima M. Comparison of the inward leakage rate between N95 filtering facepiece respirators and modified surgical masks during the COVID-19 pandemic. *Environ Health Prev Med.* 2024;29:8. doi: 10.1265/ehpm.23-00303. PMID: 38369324 PMCID: PMC10898862 DOI: 10.1265/ehpm.23-00303.
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 6. Hiroko Yaegashi, Yukikazu Hayashi, Makoto Takeda, Shih-Wei Chiu, Haruhiko Nakayama, Hiroyuki Ito, Atsushi Takano, Masahiro Tsuboi, Koji Teramoto, Hiroyuki Suzuki, Tatsuya Kato, Hiroshi Yasui, Fumitaka Nagamura, Yataro Daigo, Takuhiro Yamaguchi. Efficiency of eSource Direct Data Capture in Investigator-Initiated Clinical Trials in Oncology. *Ther Innov Regul Sci.* 2024 Jul 2. doi: 10.1007/s43441-024-00671-0. Online ahead of print.
 7. Akiko Hori, Atsuko Takahashi, Yuta Miharuru, Satoru Yamaguchi, Masatoshi Sugita, Takeo Mukai, Fumitaka Nagamura, Tokiko Nagamura-Inoue. Superior migration ability of umbilical cord-derived mesenchymal stromal cells (MSCs) toward activated lymphocytes in comparison with those of bone marrow and adipose-derived MSCs. *Front. Cell Dev. Biol.* 12:1329218. doi: 10.3389/fcell.2024.1329218.