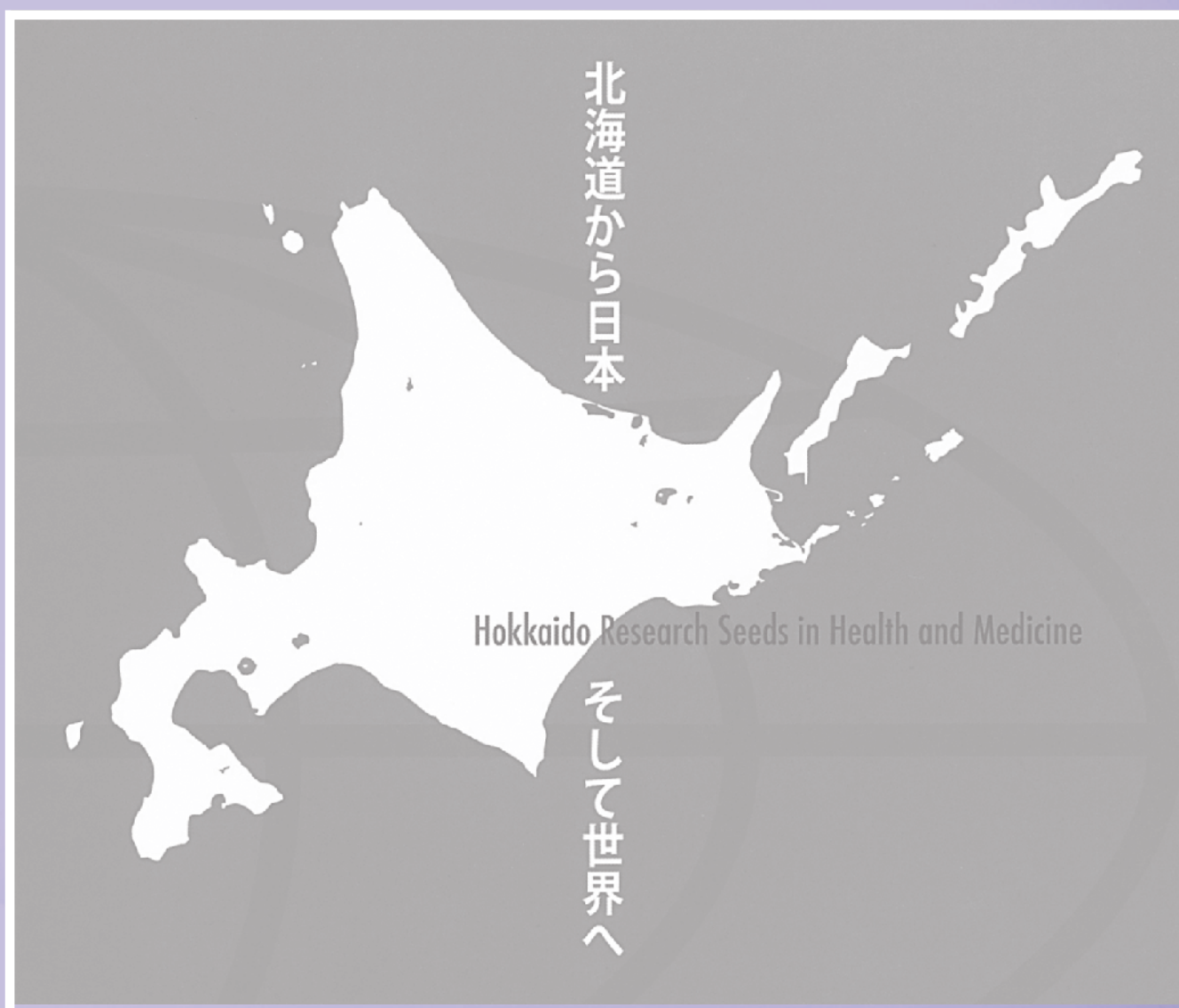




北海道

Hokkaido Research Seeds in Health and Medicine

2025



NEW Business Development

In Hokkaido

Please use it for finding the theme of Collaborative Research

Inquiry

- **Industrial Promotion Division, Bureau of Industrial Promotion,**
Department of Economic Affairs, Hokkaido Government

Kita 3-jo, Nishi 6-chome, Chuo-ku, Sapporo, Hokkaido, Japan 060-8588

TEL : +81-11-204-5323 FAX : +81-11-232-2139

- **Tourism & Investment Promotion Department,**
Hokkaido Government Tokyo Office

15F Todofuken Kaikan, 2-6-3, Hirakawa-cho, Chiyoda-ku,

Tokyo, Japan 102-0093

TEL : +81-3-5212-9210 FAX : +81-3-5212-9004

- **Hokkaido Government Osaka Office**

9F Osaka Ekimae Dai-ichi Building, 1-3-1-900 Umeda, Kita-ku, Osaka-shi,

Osaka, Japan 530-0001

TEL : +81-6-6344-4151 FAX : +81-6-6344-4126

- **Hokkaido Government Nagoya Office**

5F Chunichi Building, 4-1-1 Sakae, Naka-ku, Nagoya, Aichi, Japan 460-0008

TEL : +81-52-263-1360 FAX : +81-52-252-5145

Index

Asahikawa Medical University

- 1-1 **Therapeutic Agent for IBD "Polyphosphate Preparation"** 1
Fujiya Mikihiro, Professor of Gastroenterology, Department of Internal Medicine
- 1-2 **Anti-Cancer Agent "Ferrichrome"** 1
Fujiya Mikihiro, Professor of Gastroenterology, Department of Internal Medicine
- 1-3 **Novel anti-cancer drug target molecule "C11orf97"** 2
Hiroaki Konishi, Specially-appointed Lecturer, Department of Gastroenterology and Advanced Medical Sciences
- 1-4 **AI software to generate methionine PET images from MRI images** 2
Manabu Kinoshita, Professor, Department of Neurosurgery

Obihiro University of Agriculture and Veterinary Medicine

- 2-1 **Researches on neuronal mechanisms for mental health of mothers** 3
Yoshikage Muroi, Ph.D., D.V.M., professor, Department of Veterinary Medicine
- 2-2 **Animal models for Medical Materials: Establishment of Pig Primary Culture Using Porcine Adipocytes** 3
Yuki Muranishi, Ph.D. (Animal Physiology), Associate Professor, Department of Life and Food Sciences

Kitami Institute of Technology

- 3-1 **Chemical defined medium for protein and nucleic acid production by Escherichia coli – Design CDM to express larger amount of recombinant protein than natural media –** 4
Masaaki Konishi, Ph.D., Professor, Faculty of Engineering, Bioprocess Engineering Lab
- 3-2 **Hypochlorous Acid-Responsive Bilayer Hydrogels that Show Distinct Deformation** 4
Yasumasa Kanekiyo, Ph.D., Associate Professor, School of Regional Innovation and Social Design Engineering
- 3-3 **Hypochlorous Acid-Responsive Thin Films that Exhibit Remarkable Color Changes** 5
Yasumasa Kanekiyo, Ph.D., Associate Professor, School of Regional Innovation and Social Design Engineering
- 3-4 **Bio- and Environment-Responsive Molecular Recognition Materials that Exhibit Remarkable Color Changes** 5
Yasumasa Kanekiyo, Ph.D., Associate Professor, School of Regional Innovation and Social Design Engineering

Hokkaido University

- 4-1 **The pH-responsive cationic lipids with efficient endosomal release** 6
Yusuke SATO, Ph.D., Assistant Professor, Faculty of Pharmaceutical Sciences Biopharmaceutical Sciences and Pharmacy
- 4-2 **Brain micro-inflammation at specific vessels under stress induce gastrointestinal failure** . . . 6
Masaaki MURAKAMI, Ph.D., Professor,
Institute for Genomic Medicine and Graduate School of Medicine Division of Molecular Neuroimmunology
- 4-3 **New Enzyme for Biosynthesis of Cyclic Peptides** 7
Toshiyuki WAKIMOTO, Ph.D., Professor, Faculty of Pharmaceutical Sciences Molecular Phamaceutical Siences

Sapporo Medical University

- 5-1 **Identification of a long non-coding RNA as a therapeutic target in gastric cancer** 7
Hiroshi Kitajima, M.S., Assistant Professor, Department of Molecular Biology
- 5-2 **Liver organoid model for pharmacokinetic assay** 8
Naoki Tanimizu, Ph.D., Associate Professor, Department of Tissue Development and Regeneration
(Current affiliation: Division of Regenerative Medicine, Center of Stem Cell Biology and Regenerative Medicine,
The Institute of Medical Science, The University of Tokyo)
- 5-3 **FABP4 as novel therapeutic target in Cardiovascular-Kidney-Metabolic (CKM) syndrome and MASLD** 8
Masato Furuhashi, M.D., Ph.D., Professor, Department of Cardiovascular-Kidney-Metabolic Medicine
- 5-4 **Development of CAR-T cells targeting cancer stem cell antigen for refractory osteosarcoma** 9
Toshihiko Torigoe, M.D., Ph.D., Professor, Tomohide Tsukahara, M. D., Ph. D, Associate Professor, Department of Pathology
- 5-5 **Screening of vivoEF inhibitors for site-specific therapy against bacterial infections** 9
Toyotaka Sato, D.V.M., Ph.D., Assistant Professor, Department of Microbiology
(Current affiliation: Department of microbiology, faculty of veterinary medicine, Hokkaido university)

National Institute of Technology, Hakodate College

- 6-1 **Measurement of Bio-signals and its analysis** 10
Kenji MORIYA, Ph.D., Professor, Dept of Production Systems Engineering, Bio-signals Measurement Lab.