Stanford

Hiromitsu (Hiro) Nakauchi

Professor of Genetics (Stem Cell)

CONTACT INFORMATION

- **Administrative Contact**

  Shota Homma - Administrative assistant

  Email shota111@stanford.edu

  Tel 650-497-4365

Bio

BIO

Hiro Nakauchi obtained a M.D. from Yokohama City University School of Medicine and a Ph.D. in immunology from University of Tokyo Graduate School of Medicine. He isolated CD8 genes during his post-doc period at the Laboratory of Prof. Leonard Herzenberg at Stanford University. After returning to Japan, he started working on hematopoietic stem cells in his laboratory at RIKEN. In 1994, he became Professor of Immunology at the University of Tsukuba where he demonstrated that a single hematopoietic stem cell could reconstitute the entire hematopoietic system, a definitive experimental proof for the “stemness”. Since April 2002, he has been a Professor of Stem Cell Therapy in the Institute of Medical Science at The University of Tokyo (IMSUT). In 2008, he was appointed Director of newly established Center for Stem Cell Biology and Regenerative Medicine at IMSUT. In 2014, he returned to Stanford University as a faculty to continue his stem cell research at the Institute of Stem Cell Biology and Regenerative Medicine. Goals of his work are to translate discoveries in basic research into practical medical applications.

ACADEMIC APPOINTMENTS

- Professor, Genetics
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor, Department of Immunology Juntendo University, School of Medicine, (1986-1987)
- Associate team leader, Team leader Laboratory of Cell Growth and Differentiation,, The Institute of Physical and Chemical Research (RIKEN), (1987-1995)
- Professor, Department of Immunology, Institute of Basic Medical Sciences, University of Tsukuba, (1994-2002)
- Professor, Laboratory of Stem Cell Therapy, Center for Exp. Medicine, Institute of Medical Science, University of Tokyo, (2002-2007)

- Leader, iPS Research Core Facility Program of The Project for Realization of Regenerative Medicine, University of Tokyo, (2008-2013)
- Research Director, Nakauchi Stem Cell and Organ Regeneration Project, Japan Science and Technology Agency, Exploratory Research for Advanced Technology, (2008-2013)
- Director, Center for Stem Cell Biology and Regenerative Medicine,, Institute of Medical Science, University of Tokyo, (2008-2017)
- Professor, Department of Genetics,, Institute for Stem Cell Biology and Regenerative Medicine, Stanford University, (2014- present)
- Project Professor, Emeritus, Distinguished Professor Unit, Institute of Medical Science, University of Tokyo, (2017-2022)
- Distinguished University Professor, Institute of Integrated Research, Institute of Science Tokyo (Tokyo Medical and Dental University), (2022-present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Advisory board, RIKEN Center for Developmental Biology/Center for Biosystems Research (2016 - present)
- Guest Professor, University of Ulm, Germany (2010 - 2013)
- President, Japanese Society of Regenerative Medicine (2007 - 2010)
- Advisory board, RIKEN Research Center for Allergy and Immunology (2005 - 2013)
- Board of Directors, International Society of Stem Cell Research (ISSCR) (2004 - 2008)
- Member, International Members Committee, American Society of Hematology (2004 - 2007)
- Advisory board, CONSERT (Concerted Safety & Efficiency Evaluation of Retroviral Transgenesis in Gene Therapy of Inherited Disease) by the European Union (2004 - 2007)

PROFESSIONAL EDUCATION

- Postdoctoral Fellow, immunogenetics and molecular biology, Department of Genetics Stanford University School of Medicine
- PhD, Department of Immunology, Graduate School of Medicine, University of Tokyo
- MD, Yokohama City University, School of Medicine

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Translation of discoveries in basic research into practical medical applications

PROJECTS

- Generation of functional cells and organs from iPS cells - Stanford University, The University of Tokyo, Meiji University, University of California Davis
- Development of stem cell based therapy - Stanford University
- Isolation and Clonal Characterization of Hematopoietic Stem Cells - Stanford University, The University of Tokyo

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Andrew Burden, Sofia Luna, Archana Shankar

Postdoctoral Faculty Sponsor

Carsten Charlesworth, Dongwan Kim, Hisato Nagano, Takaaki Samura

Doctoral Dissertation Advisor (AC)

Sicong Wang

Postdoctoral Research Mentor

Fabian Suchy

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Genetics (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **Genome engineering with Cas9 and AAV repair templates generates frequent concatemeric insertions of viral vectors.** *Nature biotechnology*
  Suchy, F. P., Karigane, D., Nakauchi, Y., Higuchi, M., Zhang, J., Pekrun, K., Hsu, I., Fan, A. C., Nishimura, T., Charlesworth, C. T., Bhadury, J., Nishimura, T., Wilkinson, et al
  2024

- **Generation of Functional Organs Using a Cell-Competitive Niche in Intra- and Inter-species Rodent Chimeras.** *Cell stem cell*
  Nishimura, T., Suchy, F. P., Bhadury, J., Igarashi, K. J., Charlesworth, C. T., Nakauchi, H.
  2020

- **Long-term ex vivo haematopoietic-stem-cell expansion allows nonconditioned transplantation.** *Nature*
  Wilkinson, A. C., Ishida, R., Kikuchi, M., Sudo, K., Morita, M., Crisostomo, R. V., Yamamoto, R., Loh, K. M., Nakamura, Y., Watanabe, M., Nakauchi, H., Yamazaki, S.
  2019

- **Large-Scale Clonal Analysis Resolves Aging of the Mouse Hematopoietic Stem Cell Compartment.** *Cell stem cell*
  Yamamoto, R. n., Wilkinson, A. C., Ooehara, J. n., Lan, X. n., Lai, C. Y., Nakauchi, Y. n., Pritchard, J. K., Nakauchi, H. n.
  2018; 22 (4): 600–607.e4

- **Changing concepts in hematopoietic stem cells.** *Science (New York, N.Y.)*
  Yamamoto, R., Wilkinson, A. C., Nakauchi, H.
  2018; 362 (6417): 895–96

- **Interspecies organogenesis generates autologous functional islets.** *Nature*
  Yamaguchi, T., Sato, H., Kato-Itoh, M., Goto, T., Hara, H., Sanbo, M., Mizuno, N., Kobayashi, T., Yanagida, A., Umino, A., Ota, Y., Hamanaka, S., Masaki, et al
  2017; 542 (7640): 191-196

- **Depleting dietary valine permits nonmyeloablative mouse hematopoietic stem cell transplantation** *SCIENCE*
  Taya, Y., Ota, Y., Wilkinson, A. C., Kanazawa, A., Watarai, H., Kasai, M., Nakauchi, H., Yamazaki, S.
  2016; 354 (6316): 1152-1155

- **Inhibition of Apoptosis Overcomes Stage-Related Compatibility Barriers to Chimera Formation in Mouse Embryos.** *Cell stem cell*
  Masaki, H., Kato-Itoh, M., Takahashi, Y., Umino, A., Sato, H., Ito, K., Yanagida, A., Nishimura, T., Yamaguchi, T., Hirabayashi, M., Era, T., Loh, K. M., Wu, et al
  2016; 19 (5): 587-592

- **Clonal Analysis Unveils Self-Renewing Lineage-Restricted Progenitors Generated Directly from Hematopoietic Stem Cells** *CELL*
  Yamamoto, R., Morita, Y., Ooehara, J., Hamanaka, S., Onodera, M., Rudolph, K. L., Ema, H., Nakauchi, H.
  2013; 154 (5): 1112-1126

- **Blastocyst complementation generates exogenic pancreas in vivo in apancreatic cloned pigs** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Matsunari, H., Nagashima, H., Watanabe, M., Umeyama, K., Nakano, K., Nagaya, M., Kobayashi, T., Yamaguchi, T., Sumazaki, R., Herzenberg, L. A., Nakauchi, H.
  2013; 110 (12): 4557-4562

- **Generation of Rejuvenated Antigen-Specific T Cells by Reprogramming to Pluripotency and Redifferentiation** *CELL STEM CELL*
  Nishimura, T., Kaneko, S., Kawana-Tachikawa, A., Tajima, Y., Goto, H., Zhu, D., Nakayama-Hosoya, K., Iriguchi, S., Uemura, Y., Shimizu, T., Takayama, N., Yamada, D., Nishimura, et al

2013; 12 (1): 114-126

- **Nonmyelinating Schwann Cells Maintain Hematopoietic Stem Cell Hibernation in the Bone Marrow Niche** *CELL*
  Yamazaki, S., Ema, H., Karlsson, G., Yamaguchi, T., Miyoshi, H., Shioda, S., Taketo, M. M., Karlsson, S., Iwama, A., Nakauchi, H.
  2011; 147 (5): 1146-1158

- **Generation of Rat Pancreas in Mouse by Interspecific Blastocyst Injection of Pluripotent Stem Cells** *CELL*
  Kobayashi, T., Yamaguchi, T., Hamanaka, S., Kato-Itoh, M., Yamazaki, Y., Ibata, M., Sato, H., Lee, Y., Usui, J., Knisely, A. S., Hirabayashi, M., Nakauchi, H.
  2010; 142 (5): 787-799

- **In vivo CRISPR screening identifies SAGA complex members as key regulators of hematopoiesis.** *Nature communications*
  Shankar, A., Olender, L., Hsu, I., Miyauchi, M., Pálovics, R., Meaker, G. A., Kaito, S., Rizq, O., Khoo, H. M., Bozhilov, Y., Igarashi, K. J., Bhadury, J., Munson, et al
  2026

- **DNMT3A R882H Is Not Required for Disease Maintenance in Primary Human AML, but Is Associated With Increased Leukemia Stem Cell Frequency.** *Cancer discovery*
  Köhnke, T., Karigane, D., Hilgart, E., Fan, A. C., Kayamori, K., Miyauchi, M., Collins, C. T., Suchy, F. P., Rangavajhula, A., Feng, Y., Nakauchi, Y., Martinez-Montes, E., Fowler, et al
  2025

- **Machine Learning-Based Prediction of Right Heart Failure After LVAD Implantation with Visualization of Individual Risk Factors**
  Samura, T., Masaki, H., Yoshioka, D., Tonai, K., Tsukamoto, Y., Fukushima, S., Nakauchi, H., Miyagawa, S.
  LIPPINCOTT WILLIAMS & WILKINS.2025: A4365640

- **FLT3 ligand facilitates long-term ex vivo expansion of human hematopoietic stem cells by maintaining lymphoid reconstitution potential**
  Miyauchi, M., Banuelos, A., Mack, P., Suchy, F., Tan, T., Charlesworth, C., Homma, S., Zhang, J., Kayamori, K., Yilmaz, L., Bhadury, J., Karigane, D., Nakauchi, et al
  ELSEVIER.2025: 4931-4932

- **Aberrant cell cycle regulation and osteoblastic differentiation in diamond-blackfan anemia (DBA) mesenchymal stem cells**
  Kim, H., Viduya, J., Youm, J., Mark, K., Liu, L., Suchy, F., Nakauchi, H., Shyr, D., Goyal, A., Glader, B., Wu, J. Y., Sakamoto, K.
  ELSEVIER.2025: 747-748

- **Intra-leukemic interferon signaling suppresses expansion and mediates chemoresistance in human AML.** *Blood cancer discovery*
  Karigane, D., Fan, A. C., Nishimura, T., Kayamori, K., Nakauchi, Y., Köhnke, T., Rangavajhula, A., Ediriwickrema, A., Benard, B. A., Thomas, R., Zhao, F., Stafford, M., Suchy, et al
  2025

- **Xenophagocytosis blockade enhances interspecies chimerism.** *bioRxiv : the preprint server for biology*
  Wang, S., Niizuma, K., Liu, D. D., Suchy, F. P., Sato, H., Yanagida, A., Masaki, H., Miyauchi, M., Tabatabaee, S., Hidajat, N., Bhadury, J., Charlesworth, C. T., Zhang, et al
  2025

- **A human-specific regulatory mechanism revealed in a pre-implantation model.** *Nature*
  Fueyo, R., Wang, S., Crocker, O. J., Swigut, T., Nakauchi, H., Wysocka, J.
  2025

- **Targeting Innate Immune Barriers to Boost Xenogeneic Chimerism: The Role of Macrophage-Mediated Xenophagocytosis**
  Nakauchi, H.
  WILEY.2025

- **Development of iPSC-derived T cells targeting EGFR neoantigens in non-small cell lung cancer.** *Molecular therapy. Methods & clinical development*
  Niizuma, K., Nishimura, T., Villanueva, J., Amaya, L., Fowler, J. L., Isobe, T., Nakauchi, Y., Saavedra, B., Xu, H., Nakanishi, M., Wilkinson, A. C., Loh, K. M., Shrager, et al
  2025; 33 (3): 101517

- **Derivation of resident macrophages and construction of tumor microenvironment in Flk-1-knockout chimeric mice produced via blastocyst complementation.** *Scientific reports*
  Ishii, S., Yamazaki, K., Li, P., Kubara, K., Ishizuka, Y., Izumi, Y., Kamisako, T., Ishizaki, H., Ono, Y., Mizuno, N., Sato, H., Masaki, H., Watanabe, et al

2025; 15 (1): 27665

- **Donor-Targeted Anti-HLA-A2 Antibody Shows Nanogram-Level Efficacy in a Novel GVHD Mouse Model.** *bioRxiv : the preprint server for biology*
  Niizuma, K., Chang, A. H., Kim, J. S., Busque, S., Majeti, R., Nakauchi, H., Nakauchi, Y.
  2025
- **Stable platelet production via the bypass pathway explains long-term hematopoietic stem cell reconstitution** *ISCIENCE*
  Iwanami, S., Sato, T., Haeno, H., Xu, L., Imamura, K., Ooehara, J., Lan, X., Nakauchi, H., Iwami, S., Yamamoto, R.
  2025; 28 (6)
- **Protocol for the isolation and characterization of mouse alveolar bone marrow hematopoietic stem cells.** *STAR protocols*
  Niizuma, K., Morikawa, S., Gars, E., Chang, A. H., Wilkinson, A. C., Nakauchi, H., Yamamoto, R.
  2025; 6 (2): 103875
- **Disentangling cell-intrinsic and cell-extrinsic factors underlying evolution.** *Cell genomics*
  Starr, A. L., Nishimura, T., Igarashi, K. J., Funamoto, C., Nakauchi, H., Fraser, H. B.
  2025: 100891
- **Allogeneic, Xenogeneic, and Exogenic Hearts for Transplantation.** *Methodist DeBakey cardiovascular journal*
  Garry, D. J., Garry, M. G., Nakauchi, H., Masaki, H., Sachs, D. H., Weiner, J. I., Reichart, D., Wolf, E.
  2025; 21 (3): 92-99
- **Highly efficient in vivo hematopoietic stem cell transduction using an optimized self-complementary adeno-associated virus** *MOLECULAR THERAPY METHODS & CLINICAL DEVELOPMENT*
  Charlesworth, C. T., Homma, S., Amaya, A. K., Dib, C., Vaidyanathan, S., Tan, T., Miyauchi, M., Nakauchi, Y., Suchy, F. P., Wang, S., Igarashi, K. J., Cromer, M., Dudek, et al
  2025; 33 (1)
- **Highly efficient in vivo hematopoietic stem cell transduction using an optimized self-complementary adeno-associated virus.** *Molecular therapy. Methods & clinical development*
  Charlesworth, C. T., Homma, S., Amaya, A. K., Dib, C., Vaidyanathan, S., Tan, T. K., Miyauchi, M., Nakauchi, Y., Suchy, F. P., Wang, S., Igarashi, K. J., Cromer, M. K., Dudek, et al
  2025; 33 (1): 101438
- **Inhibition of PRC2 enables self-renewal of blastoid-competent naive pluripotent stem cells from chimpanzee.** *Cell stem cell*
  Huang, T., Radley, A., Yanagida, A., Ren, Z., Carlisle, F., Tahajjodi, S., Kim, D., O'Neill, P., Clarke, J., Lancaster, M. A., Heckhausen, Z., Zhuo, J., de Sousa, et al
  2025
- **Intercellular mRNA transfer alters the human pluripotent stem cell state.** *Proceedings of the National Academy of Sciences of the United States of America*
  Yoneyama, Y., Zhang, R., Maezawa, M., Masaki, H., Kimura, M., Cai, Y., Adam, M., Parameswaran, S., Mizuno, N., Bhadury, J., Maezawa, S., Ochiai, H., Nakauchi, et al
  2025; 122 (4): e2413351122
- **Elevated hematopoietic stem cell frequency in mouse alveolar bone marrow.** *Stem cell reports*
  Niizuma, K., Morikawa, S., Gars, E., Xiang, J., Matsubara-Takahashi, T., Saito, R., Takematsu, E., Wang, Y., Xu, H., Wakimoto, A., Tan, T. K., Kubota, Y., Chan, et al
  2024: 102374
- **iPSC-Derived Chimeric Antigen Receptor T Cells That Originally Lack CD5 Expression Exhibits Robust Cytotoxicity Against T-Cell Malignancies**
  Goto, A., Ishii, M., Kinoshita, S., Furukawa, Y., Izumi, N., Ando, J., Nakauchi, H., Ando, M.
  ELSEVIER.2024: 2029-2030
- **Identification of the Saga Complex As a Key Regulator of Hematopoiesis**
  Haney, M., Shankar, A., Olender, L., Hsu, I., Miyauchi, M., Meaker, G., Kaito, S., Rizq, O., Khoo, H., Bozhilov, Y., Palovics, R., Igarashi, K., Bhadury, et al
  ELSEVIER.2024: 5623

- **DNMT3AR882H Is Not Required for Disease Maintenance in Primary Human AML, but Is Associated With Increased Leukemia Stem Cell Frequency.** *bioRxiv : the preprint server for biology*
  Köhnke, T., Karigane, D., Hilgart, E., Fan, A. C., Kayamori, K., Miyauchi, M., Collins, C. T., Suchy, F. P., Rangavajhula, A., Feng, Y., Nakauchi, Y., Martinez-Montes, E., Fowler, et al
  2024

- **Targeted hematopoietic stem cell depletion through SCF-blockade.** *Stem cell research & therapy*
  Chan, Y. Y., Ho, P. Y., Dib, C., Swartzrock, L., Rayburn, M., Willner, H., Ko, E., Ho, K., Down, J. D., Wilkinson, A. C., Nakauchi, H., Denis, M., Cool, et al
  2024; 15 (1): 387

- **Secreted Particle Information Transfer (SPIT) - A Cellular Platform for In Vivo Genetic Engineering.** *Research square*
  Charlesworth, C. T., Homma, S., Suchy, F., Wang, S., Bhadhury, J., Amaya, A. K., Camarena, J., Zhang, J., Tan, T. K., Igarashi, K., Nakauchi, H.
  2024

- **HYPDXIC/SCF-SUPPLEMENTED CULTURE IN POLYMER-BASED MEDIUM ENABLES STABLE EX VIVO HUMAN HEMATOPOIETIC STEM CELL EXPANSION**
  Miyauchi, M., Mack, P., Bhadury, J., Tan, A., Suchy, F., Zhang, J., Charlesworth, C., Homma, S., Karigane, D., Nakauchi, H.
  ELSEVIER SCIENCE INC.2024

- **Inter-cellular mRNA Transfer Alters Human Pluripotent Stem Cell State.** *bioRxiv : the preprint server for biology*
  Yoneyama, Y., Zhang, R., Kimura, M., Cai, Y., Adam, M., Parameswaran, S., Masaki, H., Mizuno, N., Bhadury, J., Maezawa, S., Ochiai, H., Nakauchi, H., Potter, et al
  2024

- **Generation of insulin-like growth factor 1 receptor-knockout pigs as a potential system for interspecies organogenesis** *REGENERATIVE THERAPY*
  Nagaya, M., Uchikura, A., Nakano, K., Watanabe, M., Matsunari, H., Umeyama, K., Mizuno, N., Nishimura, T., Nakauchi, H., Nagashima, H.
  2024; 26: 783-791

- **Generation of insulin-like growth factor 1 receptor-knockout pigs as a potential system for interspecies organogenesis.** *Regenerative therapy*
  Nagaya, M., Uchikura, A., Nakano, K., Watanabe, M., Matsunari, H., Umeyama, K., Mizuno, N., Nishimura, T., Nakauchi, H., Nagashima, H.
  2024; 26: 783-791

- **Disentangling cell-intrinsic and extrinsic factors underlying gene expression evolution.** *bioRxiv : the preprint server for biology*
  Starr, A. L., Nishimura, T., Igarashi, K. J., Funamoto, C., Nakauchi, H., Fraser, H. B.
  2024

- **Skin graft with dermis and appendages generated in vivo by cell competition.** *Nature communications*
  Nagano, H., Mizuno, N., Sato, H., Mizutani, E., Yanagida, A., Kano, M., Kasai, M., Yamamoto, H., Watanabe, M., Suchy, F., Masaki, H., Nakauchi, H.
  2024; 15 (1): 3366

- **Unwanted Concatemeric Knock-Ins Occur Frequently with Cas9/AAV-Mediated Gene-Editing: Detection and Prevention**
  Suchy, F. P., Karigane, D., Nakauchi, Y., Higuchi, M., Zhang, J., Pekrun, K., Hsu, I., Fan, A. C., Nishimura, T., Charlesworth, C. T., Bhadury, J., Nishimura, T., Wilkinson, et al
  CELL PRESS.2024: 211-212

- **Lineage-tracing hematopoietic stem cell origins in vivo to efficiently make human HLF+ HOXA+ hematopoietic progenitors from pluripotent stem cells.** *Developmental cell*
  Fowler, J. L., Zheng, S. L., Nguyen, A., Chen, A., Xiong, X., Chai, T., Chen, J. Y., Karigane, D., Banuelos, A. M., Niizuma, K., Kayamori, K., Nishimura, T., Cromer, et al
  2024

- **Rejuvenated iPSC-derived GD2-directed CART cells harbor robust cytotoxicity against small cell lung cancer.** *Cancer research communications*
  Kinoshita, S., Ishii, M., Ando, J., Kimura, T., Yamaguchi, T., Harada, S., Takahashi, F., Nakashima, K., Nakazawa, Y., Yamazaki, S., Ohshima, K., Takahashi, K., Nakauchi, et al
  2024

- **Publisher Correction: Hypoblast from human pluripotent stem cells regulates epiblast development.** *Nature*

Okubo, T., Rivron, N., Kabata, M., Masaki, H., Kishimoto, K., Semi, K., Nakajima-Koyama, M., Kunitomi, H., Kaswandy, B., Sato, H., Nakauchi, H., Woltjen, K., Saitou, et al

2024

- **Secreted Particle Information Transfer (SPIT) - A Cellular Platform forIn VivoGenetic Engineering.** *bioRxiv : the preprint server for biology*

  Charlesworth, C. T., Homma, S., Suchy, F., Wang, S., Bhadhury, J., Amaya, A. K., Camarena, J., Zhang, J., Tan, T. K., Igarishi, K., Nakauchi, H.

  2024

- **iPSC-derived hypoimmunogenic tissue resident memory Tcells mediate robust anti-tumor activity against cervical cancer.** *Cell reports. Medicine*

  Furukawa, Y., Ishii, M., Ando, J., Ikeda, K., Igarashi, K. J., Kinoshita, S., Azusawa, Y., Toyota, T., Honda, T., Nakanishi, M., Ohshima, K., Masuda, A., Yoshida, et al

  2023: 101327

- **Hypoblast from human pluripotent stem cells regulates epiblast development.** *Nature*

  Okubo, T., Rivron, N., Kabata, M., Masaki, H., Kishimoto, K., Semi, K., Nakajima-Koyama, M., Kunitomi, H., Kaswandy, B., Sato, H., Nakauchi, H., Woltjen, K., Saitou, et al

  2023

- **iPSC-Derived Dual Antigen Receptor T Cells Targeting GD2 and LMP2 Antigens for Extranodal NK/T-Cell Lymphoma, Nasal Type**

  Kinoshita, S., Ishii, M., Furukawa, Y., Sato, S., Ando, J., Nakauchi, H., Ando, M.

  AMER SOC HEMATOLOGY.2023

- **iPSC-Derived CD4 T Cell Generation and Investigation of CD4/CD8 T Cell Lineage Choice**

  Furukawa, Y., Ishii, M., Goto, A., Kinoshita, S., Ando, J., Nakauchi, H., Ando, M.

  AMER SOC HEMATOLOGY.2023

- **Preparation of mechanically patterned hydrogels for controlling the self-condensation of cells.** *STAR protocols*

  Matsuzaki, T., Kawano, Y., Horikiri, M., Shimokawa, Y., Yamazaki, T., Okuma, N., Koike, H., Kimura, M., Kawamura, R., Yoneyama, Y., Furuichi, Y., Hakuno, F., Takahashi, et al

  2023; 4 (3): 102471

- **Functional calcium-responsive parathyroid glands generated using single-step blastocyst complementation.** *Proceedings of the National Academy of Sciences of the United States of America*

  Kano, M., Mizuno, N., Sato, H., Kimura, T., Hirochika, R., Iwasaki, Y., Inoshita, N., Nagano, H., Kasai, M., Yamamoto, H., Yamaguchi, T., Suga, H., Masaki, et al

  2023; 120 (28): e2216564120

- **Chemically defined cytokine-free expansion of human haematopoietic stem cells.** *Nature*

  Sakurai, M., Ishitsuka, K., Ito, R., Wilkinson, A. C., Kimura, T., Mizutani, E., Nishikii, H., Sudo, K., Becker, H. J., Takemoto, H., Sano, T., Kataoka, K., Takahashi, et al

  2023

- **Physioxia improves the selectivity of hematopoietic stem cell expansion cultures.** *Blood advances*

  Igarashi, K. J., Kucinski, I., Chan, Y. Y., Tan, T., Khoo, H. M., Kealy, D., Bhadury, J., Hsu, I., Ho, P. Y., Niizuma, K., Hickey, J. W., Nolan, G., Bridge, et al

  2023

- **Removal of sperm tail using trypsin and pre-activation of oocyte facilitates intracytoplasmic sperm injection in mice and rats** *JOURNAL OF REPRODUCTION AND DEVELOPMENT*

  Torikai, K., Shimizu, K., Nagatomo, H., Kasai, M., Kato-itoh, M., Kamada, Y., Shibasaki, I., Jeon, H., Kikuchi, R., Wakayama, S., Suchy, F., Nakauchi, H., Wakayama, et al

  2023; 69 (1): 48-52

- **LARGE-SCALE IN VIVO CRISPR SCREENS IDENTIFY SAGA COMPLEX MEMBERS AS KEY REGULATORS OF HAEMATOPOIESIS**

  Wilkinson, A., Haney, M., Shankar, A., Hsu, I., Miyauchi, M., Palovics, R., Olender, L., Khoo, H., Igarashi, K., Bhadury, J., Munson, C., Mack, P., Tan, et al

  ELSEVIER SCIENCE INC.2023: S43

- **Removal of sperm tail using trypsin and pre-activation of oocyte facilitates intracytoplasmic sperm injection in mice and rats.** *The Journal of reproduction and development*

Torikai, K., Shimizu, K., Nagatomo, H., Kasai, M., Kato-Itoh, M., Kamada, Y., Shibasaki, I., Jeon, H., Kikuchi, R., Wakayama, S., Suchy, F., Nakauchi, H., Wakayama, et al
2022

- **An optimized Sendai viral vector platform for reprogramming to naive pluripotency.** *Cell reports methods*
  Charlesworth, C. T., Nakauchi, H.
  2022; 2 (11): 100349
- **Mechanical guidance of self-condensation patterns of differentiating progeny.** *iScience*
  Matsuzaki, T., Shimokawa, Y., Koike, H., Kimura, M., Kawano, Y., Okuma, N., Kawamura, R., Yoneyama, Y., Furuichi, Y., Hakuno, F., Takahashi, S., Nakabayashi, S., Okamoto, et al
  2022; 25 (10): 105109
- **Chimpanzee and pig-tailed macaque iPSCs: Improved culture and generation of primate cross-species embryos.** *Cell reports*
  Roodgar, M., Suchy, F. P., Nguyen, L. H., Bajpai, V. K., Sinha, R., Vilches-Moure, J. G., Van Bortle, K., Bhadury, J., Metwally, A., Jiang, L., Jian, R., Chiang, R., Oikonomopoulos, et al
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