Stanford

# Hiromitsu (Hiro) Nakauchi

Professor of Genetics (Stem Cell)

Genetics Operations

### CONTACT INFORMATION


- **Administrative Contact**

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## 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 Operations
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- 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, Distinguished Professor Unit, Institute of Medical Science, University of Tokyo, (2017- 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)**

Amy Fan

**Postdoctoral Faculty Sponsor**

Masashi Miyauchi, Kouta Niizuma

**Doctoral Dissertation Advisor (AC)**

Carsten Charlesworth, Sicong Wang

**Doctoral Dissertation Co-Advisor (AC)**

Kyomi Igarashi

**Postdoctoral Research Mentor**

Masashi Miyauchi, Kouta Niizuma, Fabian Suchy

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

## Publications

### PUBLICATIONS

- **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

- **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
  2022; 40 (9): 111264

- **Identification and characterization of invitro expanded hematopoietic stem cells.** *EMBO reports*
  Che, J. L., Bode, D., Kucinski, I., Cull, A. H., Bain, F., Becker, H. J., Jassinskaja, M., Barile, M., Boyd, G., Belmonte, M., Zeng, A. G., Igarashi, K. J., Rubio-Lara, et al
  2022: e55502

- **Streamlined and quantitative detection of chimerism using digital PCR.** *Scientific reports*
  Suchy, F. P., Nishimura, T., Seki, S., Wilkinson, A. C., Higuchi, M., Hsu, I., Zhang, J., Bhadury, J., Nakauchi, H.
  2022; 12 (1): 10223

- **Generating human artery and vein cells from pluripotent stem cells highlights the arterial tropism of Nipah and Hendra viruses.** *Cell*
  Ang, L. T., Nguyen, A. T., Liu, K. J., Chen, A., Xiong, X., Curtis, M., Martin, R. M., Raftry, B. C., Ng, C. Y., Vogel, U., Lander, A., Lesch, B. J., Fowler, et al
  2022

- **Author Correction: Investigation of Cas9 antibodies in the human eye.** *Nature communications*
  Toral, M. A., Charlesworth, C. T., Ng, B., Chemudupati, T., Homma, S., Nakauchi, H., Bassuk, A. G., Porteus, M. H., Mahajan, V. B.
  2022; 13 (1): 2109

- **Functional primordial germ cell-like cells from pluripotent stem cells in rats.** *Science (New York, N.Y.)*
  Oikawa, M., Kobayashi, H., Sanbo, M., Mizuno, N., Iwatsuki, K., Takashima, T., Yamauchi, K., Yoshida, F., Yamamoto, T., Shinohara, T., Nakauchi, H., Kurimoto, K., Hirabayashi, et al
  2022; 376 (6589): 176-179

- **Immunological barriers to haematopoietic stem cell gene therapy.** *Nature reviews. Immunology*
  Charlesworth, C. T., Hsu, I., Wilkinson, A. C., Nakauchi, H.
  2022

- **Investigation of Cas9 antibodies in the human eye.** *Nature communications*
  Toral, M. A., Charlesworth, C. T., Ng, B., Chemudupati, T., Homma, S., Nakauchi, H., Bassuk, A. G., Porteus, M. H., Mahajan, V. B.
  2022; 13 (1): 1053

- **In vitro and in vivo functions of T cells produced in complemented thymi of chimeric mice generated by blastocyst complementation.** *Scientific reports*
  Yamazaki, K., Kubara, K., Ishii, S., Li, P., Dairiki, R., Hihara, T., Ishizuka, Y., Izumi, Y., Kumai, M., Kamisako, T., Ishizaki, H., Sato, H., Masaki, et al
  2022; 12 (1): 3242

- **Advances in Allogeneic Cancer Cell Therapy and Future Perspectives on "Off-the-Shelf" T Cell Therapy Using iPSC Technology and Gene Editing.** *Cells*
  Furukawa, Y., Hamano, Y., Shirane, S., Kinoshita, S., Azusawa, Y., Ando, J., Nakauchi, H., Ando, M.
  1800; 11 (2)

- **Generation of heterozygous PKD1 mutant pigs exhibiting early-onset renal cyst formation.** *Laboratory investigation; a journal of technical methods and pathology*
  Watanabe, M., Umeyama, K., Nakano, K., Matsunari, H., Fukuda, T., Matsumoto, K., Tajiri, S., Yamanaka, S., Hasegawa, K., Okamoto, K., Uchikura, A., Takayanagi, S., Nagaya, et al
  1800

- **Generation of Tfap2c-T2A-tdTomato knock-in reporter rats via adeno-associated virus-mediated efficient gene targeting.** *Molecular reproduction and development*
  Oikawa, M., Nagae, M., Mizuno, N., Iwatsuki, K., Yoshida, F., Inoue, N., Uenoyama, Y., Tsukamura, H., Nakauchi, H., Hirabayashi, M., Kobayashi, T.
  2022
- **DEVELOPMENT OF EX VIVO HEMATOPOIETIC STEM CELL ASSAYS USING A HIGHLY SELECTIVE EXPANSION SYSTEM**
  Igarashi, K., Hsu, I., Khoo, H., Nakauchi, H., Wilkinson, A.
  ELSEVIER SCIENCE INC.2022: S96
- **Treatment of a genetic brain disease by CNS-wide microglia replacement.** *Science translational medicine*
  Shibuya, Y., Kumar, K. K., Mader, M. M., Yoo, Y., Ayala, L. A., Zhou, M., Mohr, M. A., Neumayer, G., Kumar, I., Yamamoto, R., Marcoux, P., Liou, B., Bennett, et al
  2022; 14 (636): eabl9945
- **Xenotransplantation and interspecies organogenesis: current status and issues.** *Frontiers in endocrinology*
  Kano, M., Mizutani, E., Homma, S., Masaki, H., Nakauchi, H.
  2022; 13: 963282
- **METABOLIC PROFILING OF MOUSE HEMATOPOIETIC STEM CELL SELF-RENEWAL AT SINGLE-CELL RESOLUTION**
  Tan, A., Hartmann, F., Wilkinson, A., Nakauchi, H., Nolan, G.
  ELSEVIER SCIENCE INC.2022: S145
- **Bioluminescent Tracking of Human Induced Pluripotent Stem Cells In Vitro and In Vivo.** *Methods in molecular biology (Clifton, N.J.)*
  Nishimura, T., Niizuma, K., Nakauchi, H.
  2022; 2524: 291-297
- **Pluripotent stem cells related to embryonic disc exhibit common self-renewal requirements in diverse livestock species.** *Development (Cambridge, England)*
  Kinoshita, M., Kobayashi, T., Planells, B., Klisch, D., Spindlow, D., Masaki, H., Bornelov, S., Stirparo, G. G., Matsunari, H., Uchikura, A., Lamas-Toranzo, I., Nichols, J., Nakauchi, et al
  2021; 148 (23)
- **Tracing the emergence of primordial germ cells from bilaminar disc rabbit embryos and pluripotent stem cells.** *Cell reports*
  Kobayashi, T., Castillo-Venzor, A., Penfold, C. A., Morgan, M., Mizuno, N., Tang, W. W., Osada, Y., Hirao, M., Yoshida, F., Sato, H., Nakauchi, H., Hirabayashi, M., Surani, et al
  2021; 37 (2): 109812
- **Dual-antigen targeted iPSC-derived chimeric antigen receptor-T cell therapy for refractory lymphoma.** *Molecular therapy : the journal of the American Society of Gene Therapy*
  Harada, S., Ando, M., Ando, J., Ishii, M., Yamaguchi, T., Yamazaki, S., Toyota, T., Ohara, K., Ohtaka, M., Nakanishi, M., Shin, C., Ota, Y., Nakashima, et al
  2021
- **High glucose macrophage exosomes enhance atherosclerosis by driving cellular proliferation & hematopoiesis.** *iScience*
  Bouchareychas, L., Duong, P., Phu, T. A., Alsop, E., Meechoovet, B., Reiman, R., Ng, M., Yamamoto, R., Nakauchi, H., Gasper, W. J., Van Keuren-Jensen, K., Raffai, R. L.
  2021; 24 (8): 102847
- **iPSC-derived neoantigen-specific cytotoxic T-lymphocyte therapy for Ewing sarcoma.** *Cancer immunology research*
  Ishii, M., Ando, J., Yamazaki, S., Toyota, T., Ohara, K., Furukawa, Y., Suehara, Y., Nakanishi, M., Nakashima, K., Ohshima, K., Nakauchi, H., Ando, M.
  2021
- **Feasibility of large experimental animal models in testing novel therapeutic strategies for diabetes.** *World journal of diabetes*
  Nagaya, M., Hasegawa, K., Uchikura, A., Nakano, K., Watanabe, M., Umeyama, K., Matsunari, H., Osafune, K., Kobayashi, E., Nakauchi, H., Nagashima, H.
  2021; 12 (4): 306–30
- **Cas9-AAV6 gene correction of beta-globin in autologous HSCs improves sickle cell disease erythropoiesis in mice.** *Nature communications*
  Wilkinson, A. C., Dever, D. P., Baik, R., Camarena, J., Hsu, I., Charlesworth, C. T., Morita, C., Nakauchi, H., Porteus, M. H.
  2021; 12 (1): 686
- **Blastocyst complementation using Prdm14-deficient rats enables efficient germline transmission and generation of functional mouse spermatids in rats.** *Nature communications*

Kobayashi, T. n., Goto, T. n., Oikawa, M. n., Sanbo, M. n., Yoshida, F. n., Terada, R. n., Niizeki, N. n., Kajitani, N. n., Kazuki, K. n., Kazuki, Y. n., Hochi, S. n., Nakauchi, H. n., Surani, et al

2021; 12 (1): 1328

- **ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update.** *Stem cell reports*

  Lovell-Badge, R., Anthony, E., Barker, R. A., Bubela, T., Brivanlou, A. H., Carpenter, M., Charo, R. A., Clark, A., Clayton, E., Cong, Y., Daley, G. Q., Fu, J., Fujita, et al

  2021

- **ISSCR guidelines for the transfer of human pluripotent stem cells and their direct derivatives into animal hosts.** *Stem cell reports*

  Hyun, I., Clayton, E. W., Cong, Y., Fujita, M., Goldman, S. A., Hill, L. R., Monserrat, N., Nakauchi, H., Pedersen, R. A., Rooke, H. M., Takahashi, J., Knoblich, J. A.

  2021

- **Polyvinyl alcohol hydrolysis rate and molecular weight influence human and murine HSC activity ex vivo.** *Stem cell research*

  Sudo, K., Yamazaki, S., Wilkinson, A. C., Nakauchi, H., Nakamura, Y.

  2021; 56: 102531

- **Genetically engineered pigs manifesting pancreatic agenesis with severe diabetes.** *BMJ open diabetes research & care*

  Nagaya, M., Hasegawa, K., Watanabe, M., Nakano, K., Okamoto, K., Yamada, T., Uchikura, A., Osafune, K., Yokota, H., Nagaoka, T., Matsunari, H., Umeyama, K., Kobayashi, et al

  2020; 8 (2)

- **In vivo clonal analysis of aging hematopoietic stem cells.** *Mechanisms of ageing and development*

  Yamamoto, R., Nakauchi, H.

  2020: 111378

- **CAS9-AAV6 GENE CORRECTION OF AUTOLOGOUS HSCS IMPROVES SICKLE CELL DISEASE ERYTHROPOIESIS IN MICE**

  Wilkinson, A., Dever, D., Baik, R., Hsu, I., Camarena, J., Charlesworth, C., Morita, C., Nakauchi, H., Porteus, M.

  ELSEVIER SCIENCE INC.2020: S52

- **Sufficiency for inducible Caspase-9 safety switch in human pluripotent stem cells and disease cells.** *Gene therapy*

  Nishimura, T., Xu, H., Iwasaki, M., Karigane, D., Saavedra, B., Takahashi, Y., Suchy, F. P., Monobe, S., Martin, R. M., Ohtaka, M., Nakanishi, M., Burrows, S. R., Cleary, et al

  2020

- **Sustainable Tumor-Suppressive Effect of iPSC-Derived Rejuvenated T Cells Targeting Cervical Cancers.** *Molecular therapy : the journal of the American Society of Gene Therapy*

  Honda, T., Ando, M., Ando, J., Ishii, M., Sakiyama, Y., Ohara, K., Toyota, T., Ohtaka, M., Masuda, A., Terao, Y., Nakanishi, M., Nakauchi, H., Komatsu, et al

  2020

- **Stabilizing hematopoietic stem cells in vitro.** *Current opinion in genetics & development*

  Wilkinson, A. C., Nakauchi, H.

  2020; 64: 1–5

- **Stepwise strategy for generating osteoblasts from human pluripotent stem cells under fully defined xeno-free conditions with small - molecule inducers** *REGENERATIVE THERAPY*

  Zujur, D., Kanke, K., Onodera, S., Tani, S., Lai, J., Azuma, T., Xin, X., Lichtler, A. C., Rowe, D. W., Saito, T., Tanaka, S., Masaki, H., Nakauchi, et al

  2020; 14: 19–31

- **Hedgehog Activation Regulates Human Osteoblastogenesis.** *Stem cell reports*

  Onodera, S., Saito, A., Hojo, H., Nakamura, T., Zujur, D., Watanabe, K., Morita, N., Hasegawa, D., Masaki, H., Nakauchi, H., Nomura, T., Shibahara, T., Yamaguchi, et al

  2020

- **In vivo and ex vivo haematopoietic stem cell expansion.** *Current opinion in hematology*

  Yamamoto, R., Wilkinson, A. C., Nakauchi, H.

  2020

- **Vasoactive Intestinal Peptide Derived From Liver Mesenchymal Cells Mediates Tight Junction Assembly in Mouse Intrahepatic Bile Ducts.** *Hepatology communications*

Sato, A., Kakinuma, S., Miyoshi, M., Kamiya, A., Tsunoda, T., Kaneko, S., Tsuchiya, J., Shimizu, T., Takeichi, E., Nitta, S., Kawai-Kitahata, F., Murakawa, M., Itsui, et al
2020; 4 (2): 235-254

- **Long-term ex vivo expansion of mouse hematopoietic stem cells.** *Nature protocols*
  Wilkinson, A. C., Ishida, R., Nakauchi, H., Yamazaki, S.
  2020
- **Haematopoietic stem cell self-renewal in vivo and ex vivo.** *Nature reviews. Genetics*
  Wilkinson, A. C., Igarashi, K. J., Nakauchi, H. n.
  2020
- **Germline development in rat revealed by visualization and deletion of Prdm14.** *Development (Cambridge, England)*
  Kobayashi, T., Kobayashi, H., Goto, T., Takashima, T., Oikawa, M., Ikeda, H., Terada, R., Yoshida, F., Sanbo, M., Nakauchi, H., Kurimoto, K., Hirabayashi, M.
  2020
- **Author Correction: CRISPR/Cas9 microinjection in oocytes disables pancreas development in sheep.** *Scientific reports*
  Vilarino, M. n., Rashid, S. T., Suchy, F. P., McNabb, B. R., van der Meulen, T. n., Fine, E. J., Ahsan, S. D., Mursaliyev, N. n., Sebastiano, V. n., Diab, S. S., Huising, M. O., Nakauchi, H. n., Ross, et al
  2020; 10 (1): 7500
- **Macrophage Exosomes Resolve Atherosclerosis by Regulating Hematopoiesis and Inflammation via MicroRNA Cargo.** *Cell reports*
  Bouchareychas, L. n., Duong, P. n., Covarrubias, S. n., Alsop, E. n., Phu, T. A., Chung, A. n., Gomes, M. n., Wong, D. n., Meechoovet, B. n., Capili, A. n., Yamamoto, R. n., Nakauchi, H. n., McManus, et al
  2020; 32 (2): 107881
- **Germline development in rat revealed by visualization and deletion of Prdm14.** *Development (Cambridge, England)*
  Kobayashi, T. n., Kobayashi, H. n., Goto, T. n., Takashima, T. n., Oikawa, M. n., Ikeda, H. n., Terada, R. n., Yoshida, F. n., Sanbo, M. n., Nakauchi, H. n., Kurimoto, K. n., Hirabayashi, M. n.
  2020
- **Stepwise strategy for generating osteoblasts from human pluripotent stem cells under fully defined xeno-free conditions with small-molecule inducers.** *Regenerative therapy*
  Zujur, D. n., Kanke, K. n., Onodera, S. n., Tani, S. n., Lai, J. n., Azuma, T. n., Xin, X. n., Lichtler, A. C., Rowe, D. W., Saito, T. n., Tanaka, S. n., Masaki, H. n., Nakauchi, et al
  2020; 14: 19–31
- **Use of polyvinyl alcohol for chimeric antigen receptor T-cell expansion.** *Experimental hematology*
  Nishimura, T., Hsu, I., Martinez-Krams, D. C., Nakauchi, Y., Majeti, R., Yamazaki, S., Nakauchi, H., Wilkinson, A. C.
  2019
- **Compensation of Disabled Organogeneses in Genetically Modified Pig Fetuses by Blastocyst Complementation.** *Stem cell reports*
  Matsunari, H., Watanabe, M., Hasegawa, K., Uchikura, A., Nakano, K., Umeyama, K., Masaki, H., Hamanaka, S., Yamaguchi, T., Nagaya, M., Nishinakamura, R., Nakauchi, H., Nagashima, et al
  2019
- **Simple and Robust Differentiation of Human Pluripotent Stem Cells toward Chondrocytes by Two Small-Molecule Compounds.** *Stem cell reports*
  Kawata, M., Mori, D., Kanke, K., Hojo, H., Ohba, S., Chung, U., Yano, F., Masaki, H., Otsu, M., Nakauchi, H., Tanaka, S., Saito, T.
  2019
- **Long-term eradication of extranodal NK/T cell lymphoma, nasal type, by induced pluripotent stem cell-derived Epstein-Barr virus-specific rejuvenated T cells in vivo.** *Haematologica*
  Ando, M., Ando, J., Yamazaki, S., Ishii, M., Sakiyama, Y., Harada, S., Honda, T., Yamaguchi, T., Nojima, M., Ohshima, K., Nakauchi, H., Komatsu, N.
  2019
- **CRISPR/Cas9** *BIO-PROTOCOL*
  Mizuno, N., Mizutani, E., Sato, H., Kasai, M., Nakauchi, H., Yamaguchi, T.
  2019; 9 (13)
- **CRISPR/Cas9 + AAV-mediated Intra-embryonic Gene Knocking in Mice.** *Bio-protocol*
  Mizuno, N., Mizutani, E., Sato, H., Kasai, M., Nakauchi, H., Yamaguchi, T.

2019; 9 (13): e3295

- **Loss of fibrocystin promotes interleukin-8-dependent proliferation and CTGF production of biliary epithelium** *JOURNAL OF HEPATOLOGY*
  Tsunoda, T., Kakinuma, S., Miyoshi, M., Kamiya, A., Kaneko, S., Sato, A., Tsuchiya, J., Nitta, S., Kawai-Kitahata, F., Murakawa, M., Itsui, Y., Nakagawa, M., Azuma, et al
  2019; 71 (1): 143–52

- **Anephrogenic phenotype induced by SALL1 gene knockout in pigs.** *Scientific reports*
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