

CURRICULUM VITAE

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CONTACT INFORMATION

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EDUCATION

- 2004-2008 Ph.D. in Pathology, University of Tokyo, Tokyo, Japan (3/2008)
Adviser: Dr. Hiromitsu Nakauchi
Thesis title: Regulation of hematopoietic stem cell self-renewal and differentiation by polycomb group gene Bmi1
- 2002-2004 M.Sc. in Medical Sciences, University of Tsukuba, Ibaraki, Japan (3/2004)
Adviser: Dr. Hiromitsu Nakauchi
- 1998-2002 B.Sc. in Biology, Waseda University, Tokyo, Japan (3/2002)

RESEARCH EXPERIENCE

- 2017-present Associate Director, Cellular Engineering
The Jackson Laboratory for Genomic Medicine, Farmington, CT
- 2017-present Affiliated Instructor
University of Connecticut Health Center, Farmington, CT
- 2015-2017 Assistant Instructor
University of Texas Southwestern Medical Center, Dallas, TX
- 2011-2015 Postdoctoral Scholar in the laboratory of Dr. Sean J. Morrison
University of Texas Southwestern Medical Center, Dallas, TX
- 2009-2011 Postdoctoral Scholar in the laboratory of Dr. Sean J. Morrison

University of Michigan, Ann Arbor, MI

2008-2009 Postdoctoral Scholar in the laboratory of Dr. Atsushi Iwama
Chiba University, Chiba, Japan

HONORS AND AWARDS

2013-2014 Japan Society for the Promotion of Science Postdoctoral Fellowship for Research Abroad (4/2013-7/2014)

2011-2012 Research Fellowship of the Uehara Memorial Foundation (4/2011-3/2012)

2011 Kanae Foundation for the Promotion of Medical Science Foreign Study Grant

2009 70th Japan Society of Hematology Meeting Young Investigator Award

2008-2011 Japan Society for the Promotion of Science Research Fellowship for Young Scientists (PD; 4/2008-3/2011)

2005-2008 Japan Society for the Promotion of Science Research Fellowship for Young Scientists (DC1; 4/2005-3/2008)

PUBLICATIONS

1. **Oguro H***, McDonald JG, Zhao Z, Umetani M, Shaul PW, Morrison SJ*. 27-hydroxycholesterol induces hematopoietic stem cell mobilization and extramedullary hematopoiesis during pregnancy. *J. Clin. Invest.* 2017, 127:3392-3401. *co-corresponding author
2. Acar M, Kocherlakota KS, Murphy MM, Peyer JG, **Oguro H**, Inra CN, Jaiyeola C, Zhao Z, Luby-Phelps K, Morrison SJ. Deep imaging of bone marrow shows non-dividing stem cells are mainly perisinusoidal. *Nature.* 2015, 526:126-130.
3. Nakada D, **Oguro H**, Levi BP, Ryan N, Kitano A, Saitoh Y, Takeichi M, Wendt GR, Morrison SJ. Oestrogen increases haematopoietic stem-cell self-renewal in females and during pregnancy. *Nature.* 2014, 505:555-558.

4. Nakashima T, Liu T, Yu H, Ding L, Ullenbruch M, Hu B, Wu Z, **Oguro H**, Phan SH. Lung bone marrow-derived hematopoietic progenitor cells enhance pulmonary fibrosis. *Am. J. Respir. Crit. Care Med.* 2013, 188:976-984.
5. **Oguro H**, Ding L, Morrison SJ. SLAM family markers resolve functionally distinct subpopulations of hematopoietic stem cells and multipotent progenitors. *Cell Stem Cell.* 2013, 13:102-116.
6. **Oguro H***, Yuan J*, Tanaka S, Miyagi S, Mochizuki-Kashio M, Ichikawa H, Yamazaki S, Koseki H, Nakauchi H, Iwama A. Lethal myelofibrosis induced by Bmi1-deficient hematopoietic cells unveils a tumor suppressor function of the polycomb group genes. *J. Exp. Med.* 2012, 209:445-454. *co-first author
7. Konuma T, Nakamura S, Miyagi S, Negishi M, Chiba T, **Oguro H**, Yuan J, Mochizuki-Kashio M, Ichikawa H, Miyoshi H, Vidal M, Iwama A. Forced expression of the histone demethylase Fbx10 maintains self-renewing hematopoietic stem cells. *Exp. Hematol.* 2011, 39:697-709.
8. Yuan J, Takeuchi M, Negishi M, **Oguro H**, Ichikawa H, Iwama A. Bmi1 is essential for leukemic reprogramming of myeloid progenitor cells. *Leukemia.* 2011, 25:1335-1343.
9. Chiba T, Seki A, Aoki R, Ichikawa H, Negishi M, Miyagi S, **Oguro H**, Saraya A, Kamiya A, Nakauchi H, Yokosuka O, Iwama A. Bmi1 promotes hepatic stem cell expansion and tumorigenicity in both Ink4a/Arf-dependent and -independent manners in Mice. *Hepatology.* 2010, 52:1111-1123.
10. Konuma T, **Oguro H**, Iwama A. Role of the polycomb group proteins in hematopoietic stem cells. *Dev. Growth Differ.* 2010, 52:505-516.
11. Sugawara T, **Oguro H**, Negishi M, Morita Y, Ichikawa H, Iseki T, Yokosuka O, Nakauchi H, Iwama A. FET family proto-oncogene Fus contributes to self-renewal of hematopoietic stem cells. *Exp. Hematol.* 2010, 38:696-706.
12. Koizumi T, Negishi M, Nakamura S, **Oguro H**, Satoh K, Ichinose M, Iwama A. Depletion of Dnmt1-associated protein 1 triggers DNA damage and compromises the proliferative capacity of hematopoietic stem cells. *Int. J. Hematol.* 2010, 91:611-619.
13. **Oguro H**, Yuan J, Ichikawa H, Ikawa T, Yamazaki S, Kawamoto H, Nakauchi H, Iwama A. Poised lineage specification in multipotential hematopoietic stem and progenitor cells by the polycomb protein Bmi1. *Cell Stem Cell.* 2010, 6:279-286.

14. Matsuoka S, Oike Y, Onoyama I, Iwama A, Arai F, Takubo K, Mashimo Y, **Oguro H**, Nitta E, Ito K, Miyamoto K, Yoshiwara H, Hosokawa K, Nakamura Y, Gomei Y, Iwasaki H, Hayashi Y, Matsuzaki Y, Nakayama K, Ikeda Y, Hata A, Chiba S, Nakayama KI, Suda T. Fbxw7 acts as a critical fail-safe against premature loss of hematopoietic stem cells and development of T-ALL. *Genes Dev.* 2008, 22:986-991.
15. **Oguro H**, Iwama A. Life and death in hematopoietic stem cells. *Curr. Opin. Immunol.* 2007, 19:503-509.
16. Oyama T, Harigaya K, Muradil A, Hozumi K, Habu S, **Oguro H**, Iwama A, Matsuno K, Sakamoto R, Sato M, Yoshida N, Kitagawa M. Mastermind-1 is required for Notch signal-dependent steps in lymphocyte development in vivo. *Proc. Natl. Acad. Sci. U.S.A.* 2007, 104:9764-9769.
17. **Oguro H**, Iwama A, Morita Y, Kamijo T, van Lohuizen M, Nakauchi H. Differential impact of derepressed Ink4a and Arf on hematopoietic stem cells and their bone marrow microenvironment in Bmi1-deficient mice. *J. Exp. Med.* 2006, 203: 2247-2253.
18. Sakaguchi M, Shingo T, Shimazaki T, Okano HJ, Shiwa M, Ishibashi S, **Oguro H**, Ninomiya M, Kadoya T, Horie H, Shibuya A, Mizusawa H, Poirier F, Nakauchi H, Sawamoto K, Okano H. A carbohydrate-binding protein, Galectin-1, promotes proliferation of adult neural stem cells. *Proc. Natl. Acad. Sci. U.S.A.* 2006, 103:7112-7117.
19. Miyagi S, Nishimoto M, Saito T, Ninomiya M, Sawamoto K, Okano H, Muramatsu M, **Oguro H**, Iwama A, Okuda A. The Sox2 regulatory region 2 functions as a neural stem cell-specific enhancer in the telencephalon. *J. Biol. Chem.* 2006, 281:13374-13381.
20. Nakauchi H, **Oguro H**, Negishi M, Iwama A. Polycomb gene product Bmi-1 regulates stem cell self-renewal. *Ernst Schering Res. Found. Workshop.* 2005, 54:85-100.
21. Iwama A, **Oguro H**, Negishi M, Kato Y, Nakauchi H. Epigenetic regulation of hematopoietic stem cell self-renewal by polycomb genes. *Int. J. Hematol.* 2005, 81:294-300.
22. Iwama A*, **Oguro H***, Negishi M, Kato Y, Morita Y, Tsukui H, Ema H, Kamijo T, Katoh-Fukui Y, Koseki H, van Lohuizen M, Nakauchi H. Enhanced self-renewal of hematopoietic stem cells mediated by the polycomb gene product Bmi-1. *Immunity.* 2004, 21:843-851. *co-first author