

# Curriculum Vitae

## 1, Personal Information:

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Position: Associate Professor

## 2, Academic Degrees:

2005 Ph.D. Okayama University, Okayama, Japan  
1997 M.D. Okayama University, Okayama, Japan

## 3, Relevant Professional Experience:

2018- Associate Professor, Department of Hematology, Hokkaido University Hospital,  
Sapporo, Japan  
2015- Senior Assistant Professor (Lecturer), Department of Hematology, Hokkaido University  
Hospital, Sapporo, Japan  
2013- Tenure Track Assistant Professor, Department of Hematology, Hokkaido University,  
Sapporo, Japan  
2007-2013 Postdoctoral Fellow in Oncological Sciences, Mount Sinai School of Medicine, New York,  
USA  
2005-2007 Physician in Center for Cellular and Molecular Medicine, Kyushu University Hospital,  
Fukuoka, Japan

## 4, Awards

2016-2021 Highly Cited Researchers in Immunology (Clarivate Analytics)

## 5. License

Physician's License in Japan: (#391653) May 1997

## 6. Society Memberships

### Fellowship/Instructor:

2019 Japanese Society for Transplantation and Cellular Therapy

2014 The Japan Society of Transfusion Medicine and Cell Therapy

2005 The Japanese Society of Hematology

2002 The Japanese Society of Internal Medicine

### Councilor:

The Japanese Society of Hematology

The Japan Society of Transfusion Medicine and Cell Therapy

## 7. Selected Publications:

1. Ara T, **Hashimoto D**<sup>†</sup>, Hayase E, Noizat C, Kikuchi R, Hasegawa Y, Matsuda K, Ono S, Matsuno Y, Ebata K, Ogasawara R, Takahashi S, Ohigashi H, Yokoyama E, Matsuo K, Sugita J, Onozawa M, Okumura R, Takeda K, Teshima T<sup>†</sup>. Intestinal goblet cells protect against GVHD after allogeneic stem cell transplantation via Lypd8. *Sci Transl Med*. 2020; 12(550): eaaw0720.
2. Peled JU, Gomes ALC, Devlin SM, Littmann ER, Taur Y, Sung AD, Weber D, **Hashimoto D**, Slingerland AE, Slingerland JB, Maloy M, Clurman AG, Stein-Thoeringer CK, Markey KA, Docampo MD, Burgos da Silva M, Khan N, Gessner A, Messina JA, Romero K, Lew MV, Bush A, Bohannon L, Brereton DG, Fontana E, Amoretti LA, Wright RJ, Armijo GK, Shono Y, Sanchez-Escamilla M, Castillo Flores N, Alarcon Tomas A, Lin RJ, Yáñez San Segundo L, Shah GL, Cho C, Scordo M, Politikos I, Hayasaka K, Hasegawa Y, Gyurkocza B, Ponce DM, Barker JN, Perales MA, Giralt SA, Jenq RR, Teshima T, Chao NJ, Holler E, Xavier JB, Pamer EG, van den Brink MRM. Microbiota as Predictor of Mortality in Allogeneic

- Hematopoietic-Cell Transplantation. *N Engl J Med*. 2020; 382(9): 822-834.
3. Stein-Thoeringer CK, Nichols KB, Lazrak A, Docampo MD, Slingerland AE, Slingerland JB, Clurman AG, Armijo G, Gomes ALC, Shono Y, Staffas A, Burgos da Silva M, Devlin SM, Markey KA, Bajic D, Pinedo R, Tsakmaklis A, Littmann ER, Pastore A, Taur Y, Monette S, Arcila ME, Pickard AJ, Maloy M, Wright RJ, Amoretti LA, Fontana E, Pham D, Jamal MA, Weber D, Sung AD, **Hashimoto D**, Scheid C, Xavier JB, Messina JA, Romero K, Lew M, Bush A, Bohannon L, Hayasaka K, Hasegawa Y, Vehreschild MJGT, Cross JR, Ponce DM, Perales MA, Giralt SA, Jenq RR, Teshima T, Holler E, Chao NJ, Pamer EG, Peled JU, van den Brink MRM. Lactose drives Enterococcus expansion to promote graft-versus-host disease. *Science*. 2019; 366(6469): 1143-1149.
  4. Yokoyama E, **Hashimoto D**<sup>†</sup>, Hayase E, Ara T, Ogasawara R, Takahashi S, Ohigashi H, Tateno T, Hasegawa Y, Chen X, Teshima T<sup>†</sup>. Short-term KRP203 and posttransplant cyclophosphamide for graft-versus-host disease prophylaxis. *Bone Marrow Transplant*. 2019; 55(4): 787-795.
  5. Matsuoka S, **Hashimoto D**, Kadowaki M, Ohigashi H, Hayase E, Yokoyama E, Hasegawa Y, Tateno T, Chen X, Aoyama K, Oka H, Onozawa M, Takeda K, Akashi K, Teshima T. Myeloid differentiation factor 88 signaling in donor T cells accelerates graft-versus-host disease. *Haematologica*. 2020; 105(1): 226-234.
  6. Ohigashi H, **Hashimoto D**<sup>†</sup>, Hayase E, Takahashi S, Ara T, Yamakawa T, Sugita J, Onozawa M, Nakagawa M, Teshima T<sup>†</sup>. Ocular instillation of vitamin A-coupled liposomes containing HSP47 siRNA ameliorates dry eye syndrome in chronic GVHD. *Blood Adv*. 2019; 3(7): 1003-1010
  7. Ogasawara R, **Hashimoto D**<sup>†</sup>, Kimura S, Hayase E, Ara T, Takahashi S, Ohigashi H, Yoshioka K, Tateno T, Yokoyama E, Ebata K, Kondo T, Sugita J, Onozawa M, Iwanaga T, Teshima T<sup>†</sup>. Intestinal Lymphatic endothelial cells produce R-Spondin3. *Sci Rep*. 2018 Jul 16; 8(1): 10719.
  8. Takahashi S, **Hashimoto D**<sup>†</sup>, Hayase E, Ogasawara R, Ohigashi H, Ara T, Yokoyama E, Ebata K, Matsuoka S, Hill G, Sugita J, Onozawa M, Teshima T<sup>†</sup>. Ruxolitinib protects skin stem cells and maintains skin homeostasis in murine graft-versus-host disease. *Blood*. 2018 May 3; 131(18):2074-2085.
  9. Yamakawa T\*, Ohigashi H\*, **Hashimoto D**\*, Hayase E, Takahashi S, Miyazaki M, Minomi K, Onozawa M, Niitsu Y, Teshima T. Vitamin A-coupled liposomes containing siRNA against HSP47 ameliorate skin fibrosis in chronic graft-versus-host disease. *Blood*. 2018 Mar 29; 131(13): 1476-1485.
  10. Hayase E, **Hashimoto D**<sup>†</sup>, Nakamura K, Noizat C, Ogasawara R, Takahashi S, Ohigashi H, Yokoi Y, Sugimoto R, Matsuoka S, Ara T, Yokoyama E, Yamakawa T, Ebata K, Kondo T, Hiramane R, Aizawa T,

- Ogura Y, Hayashi T, Mori H, Kurokawa K, Tomizuka K, Ayabe T, Teshima T<sup>†</sup>. R-Spondin1 expands Paneth cells and prevents dysbiosis induced by graft-versus-host disease. *J Exp Med*. 2017 Dec 4;214(12):3507-3518.
11. Shimoji S, **Hashimoto D**, Tsujigiwa H, Miyawaki K, Kato K, Takahashi S, Ogasawara R, Jiromaru T, Iwasaki H, Miyamoto T, Akashi K, Teshima T. Graft-versus-host disease targets ovary and causes female infertility in mice. *Blood*. 2017;129(9):1216-1225.
  12. Uryu H, **Hashimoto D**, Kato K, Hayase E, Matsuoka S, Ogasawara R, Takahashi S, Maeda Y, Iwasaki H, Miyamoto T, Saijo S, Iwakura Y, Hill GR, Akashi K, Teshima T.  $\alpha$ -Mannan induces Th17-mediated pulmonary graft-versus-host disease in mice. *Blood*. 125(19): 3014-23, 2015.
  13. Muller PA, Koscsó B, Rajani GM, Stevanovic K, Berres ML, **Hashimoto D**, Mortha A, Leboeuf M, Li XM, Mucida D, Stanley ER, Dahan S, Margolis KG, Gershon MD, Merad M, Bogunovic M. Crosstalk between muscularis macrophages and enteric neurons regulates gastrointestinal motility. *Cell*. 2014, 158: 300-13.
  14. Mortha A, Chudnovskiy A, **Hashimoto D**, Bogunovic M, Spencer SP, Belkaid Y, Merad M. Microbiota-dependent crosstalk between macrophages and ILC3 promotes intestinal homeostasis. *Science*. 2014, 343: 1249288.
  15. **Hashimoto D**, Chow A, Noizat C, Teo P, Beasley MB, Leboeuf M, Becker CD, See P, Price J, Lucas D, Greter M, Mortha A, Boyer SW, Forsberg EC, Tanaka M, van Rooijen N, García-Sastre A, Stanley ER, Ginhoux F, Frenette PS, Merad M. Tissue-resident macrophages self-maintain locally throughout adult life with minimal contribution from circulating monocytes. *Immunity*. 2013, 38: 792-804.
  16. Kwan WH, **Hashimoto D**, Paz-Artal E, Ostrow K, Greter M, Raedler H, Medof ME, Merad M, Heeger PS. Antigen-presenting cell-derived complement modulates graft-versus-host disease. *J Clin Invest*. 2012, 122: 2234-8.
  17. Singh G, **Hashimoto D**, Yan X, Helft J, Park PJ, Ma G, Qiao RF, Kennedy CR, Chen SH, Merad M, Chan AM. R-Ras is required for murine dendritic cell maturation and CD4<sup>+</sup> T-cell priming. *Blood*. 2012, 119: 1693-701.
  18. **Hashimoto D**, Miller J, Merad M. Dendritic cell and macrophage heterogeneity in vivo. *Immunity*. 2011, 35: 323-35.
  19. **Hashimoto D**, Chow A, Greter M, Saenger Y, Kwan WH, Leboeuf M, Ginhoux F, Ochando JC, Kunisaki Y, van Rooijen N, Liu C, Teshima T, Heeger PS, Stanley ER, Frenette PS, Merad M. Pretransplant CSF-1

therapy expands recipient macrophages and ameliorates GVHD after allogeneic hematopoietic cell transplantation. *J Exp Med.* 2011, 208: 1069-1082.

20. Asakura S, **Hashimoto D**, Takashima S, Sugiyama H, Maeda Y, Akashi K, Tanimoto M, Teshima T. Alloantigen expression on non-hematopoietic cells reduces graft-versus-leukemia effects in mice. *J Clin Invest.* 2010, 120: 2370-2378.

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