論文業績リスト

（本研究の背景、理解に参考となる授賞者の主要論文。下線は授賞者、責任者に「\*」）

1. 各論文の末尾に「DOI」をご記入下さい（必須）。
2. 学会誌等の印刷物に掲載，現在印刷中の論文に限ります。未受理論文(投稿中)は対象外です。

**.LIST OF PUBLICATIONS[IF = 28.213]**

**１．**Yang C, Yokomori R, Chua LH, Tan SH, Tan DQ, Miharada K, Sanda T, **Suda T\***: Mitochondria transfer mediates stress erythropoiesis by altering the bioenergetic profiles of early erythroblasts through CD47. ***J Exp Med***. 2022 Dec 5;219(12):e20220685. doi: 10.1084/jem.20220685. Epub 2022 Sep 16. **[IF = 17.579]**

2. 　Matsumura T, Totani H,Gunji Y, Fukuda M, Yokomori R, Deng J, Rethnam M,Yang C, Tan TK, Karasawa T, Kario K, Takahashi M,Osato M,Sanda T, **SudaT\***: A Myb enhancer-guided analysis of basophil and mast cell differentiation. ***Nat Commun***. 2022 Nov 18;13(1):7064. doi: 10.1038/s41467-022-34906-1. **[IF = 17.694]**

3. 　Yokomizo T, Ideue T, Morino-Koga S, Tham CY, Sato T, Takeda N, Kubota Y, Kurokawa M, Komatsu N, Ogawa M, Araki K, Osato M, **Suda T\***: Independent origins of fetal liver haematopoietic stem and progenitor cells. ***Nature***. 2022 Sep;609(7928):779-784. doi: 10.1038/s41586-022-05203-0. Epub 2022 Sep 14. **[IF = 69.504]**

4. Umemoto T, Johansson A, Ahmad SAI, Hashimoto M, Kubota S, Odaka H, Kataoka M, Era T, Kurotaki D, Sashida G, **Suda T\***: ATP citrate lyase controls hematopoietic stem cell fate and supports bone marrow regeneration. ***EMBO J***. 2022 Apr 19;41(8):e109463. doi: 10.15252/embj.2021109463. Epub 2022 Mar 1. **[IF =** **13.783]**

5. Arai F\*, Stumpf PS, Ikushima YM, Hosokawa K, Roch A, Lutolf MP, **Suda T**, MacArthur BD: Machine Learning of Hematopoietic Stem Cell Divisions from Paired Daughter Cell Expression Profiles Reveals Effects of Aging on Self-Renewal. ***Cell Syst***. 2020 Dec 16;11(6):640-652.e5. doi: 10.1016/j.cels.2020.11.004. Epub 2020 Dec 8. **[IF =** **11.091]**

6. Matsumura T, Nakamura-Ishizu A,Muddineni SSN, Tan DQ, Wang CQ, Tokunaga K, Tirado-Magallanes R, Sian S, Benoukraf T, Okuda T,Asou N, Matsuoka M,Osato M, **SudaT\***

: Hematopoietic stem cells acquire survival advantage by loss of RUNX1 methylation identified in familial leukemia. ***Blood***. 2020 Oct 22;136(17):1919-1932. doi: 10.1182/blood.2019004292. **[IF =** **25.669]**

7. Nakamura-Ishizu A, Ito K, **Suda T\***: Hematopoietic Stem Cell Metabolism during Development and Aging. ***Dev Cell***. 2020 Jul 20;54(2):239-255. doi: 10.1016/j.devcel.2020.06.029. **[IF = 13.417]**

8. Endoh M, Baba M, Endoh T, Hirayama A, Nakamura-Ishizu A, Umemoto T, Hashimoto M, Nagashima K, Soga T, Lang M, Schmidt LS, Linehan WM, **Suda T\***: A FLCN-TFE3 Feedback Loop Prevents Excessive Glycogenesis and Phagocyte Activation by Regulating Lysosome Activity. ***Cell Rep***. 2020 Feb 11;30(6):1823-1834.e5. doi: 10.1016/j.celrep.2020.01.042. **[IF = 9.995]**

9. Takihara Y, Nakamura-Ishizu A, Tan DQ, Fukuda M, Matsumura T, Endoh M, Arima Y, Chin DWL, Umemoto T, Hashimoto M, Mizuno H, **Suda T**: High mitochondrial mass is associated with reconstitution capacity and quiescence of hematopoietic stem cells. ***Blood Adv***. 2019 Aug 13;3(15):2323-2327. doi: 10.1182/bloodadvances.2019032169. **[IF = 7.642]**

10. Yokomizo T\*, Watanabe N, Umemoto T, Matsuo J, Harai R,Kihara Y, Nakamura E, Tada N, Sato T, Takaku T, Shimono A, Takizawa H, Nakagata N, Mori S, Kurokawa M, Tenen DG, Osato M, **Suda T**\*, KomatsuN: Hlf marks the developmental pathway for hematopoietic stem cells but not for erythro-myeloid progenitors. ***J Exp Med***. 2019 Jul 1;216(7):1599-1614. doi: 10.1084/jem.20181399. Epub 2019 May 10. \*co-correspondence **[IF=17.579]**

11. Nakamura- Ishizu A, MacArthur BD, **Suda T\***: Beginning of a New Era: Mapping the Bone Marrow Niche. ***Cell***. 2019 Jun 13;177(7):1679-1681. doi: 10.1016/j.cell.2019.05.042. **[IF =** **66.850]**

12. Nakamura-Ishizu A, **Suda T\***: Dynamic Changes in the Niche with N-Cadherin Revisited: The HSC "Niche Herein". ***Cell Stem Cell***. 2019 Mar 7;24(3):355-356. doi: 10.1016/j.stem.2019.02.007. **[IF =** **25.269]**

13. Tan DQ, Li Y, Yang C, Li J, Tan SH, Chin DWL, Nakamura-Ishizu A, Yang H, **Suda T\***: PRMT5 Modulates Splicing for Genome Integrity and Preserves Proteostasis of Hematopoietic Stem Cells. ***Cell Rep***. 2019 Feb 26;26(9):2316-2328.e6. doi: 10.1016/j.celrep.2019.02.001. **[IF = 9.995]**

14. Baba M, Endoh M, Ma W,Toyama H, Hirayama A, Nishikawa K, Takubo K, Hano H, Hasumi H, Umemoto T, Hashimoto M, Irie N, Esumi C, Kataoka M, Nakagata N, Soga T, Yao M, Kamba T, Minami T, Ishii M, **Suda T\***: Folliculin Regulates Osteoclastogenesis Through Metabolic Regulation. ***J Bone Miner Res***. 2018 Oct;33(10):1785-1798. doi: 10.1002/jbmr.3477. Epub 2018 Jun 26.**[IF =** **6.390]**

15. Umemoto T, Hashimoto M, Matsumura T, **Suda T\***: Ca2+-mitochondria axis drives cell division in hematopoietic stem cells. ***J Exp Med***. 2018 Aug 6;215(8):2097-2113. doi: 10.1084/jem.20180421. Epub 2018 Jun 26. **[IF=17.579]**

16. Yang C, **Suda T\***: Hyperactivated mitophagy in hematopoietic stem cells. ***Nat Immunol***. 2018 Jan;19(1):2-3. doi: 10.1038/s41590-017-0008-8. **[IF =** **31.250]**

17. Vu TM, Nakamura-Ishizu A, Foo JC, Toh XR, Zhang F, Whee DM, Torta F, Cazenave-Gassiot A, Matsumura T, Kim S, Thoh SAES, **Suda T**, Silver DL, Wenk MR, Nguyen LN\*: Mfsd2b is essential for the sphingosine-1-phosphate export in erythrocytes and platelets. ***Nature***. 2017 Oct 26;550(7677):524-528. doi: 10.1038/nature24053. Epub 2017 Oct 18. **[IF = 69.504]**

18. Hosokawa K, MacArthur BD, Matsumoto-Ikushima Y, Toyama H, Masuhiro Y, Hanazawa S,　**Suda T**, Arai F\*: The telomere binding protein Pot1 maintains haematopoietic stem cell activity with age. ***Nat Commun***. 2017 Oct 6;8(1):804. doi: 10.1038/s41467-017-00935-4. **[IF=17.694]**

19. Umemoto T, Matsuzaki Y, Shiratsuchi Y, Hashimoto M, Yoshimoto T, Nakamura-Ishizu A, Petrich B, Yamato M, **Suda T\***: Integrin αvβ3 enhances the suppressive effect of interferon-γ on hematopoietic stem cells. ***EMBO J***. 2017 Aug 15;36(16):2390-2403. doi: 10.15252/embj.201796771. Epub 2017 Jul 3. **[IF =** **13.783]**

20 . Ito K\*, Turcotte R, Cui J, Zimmerman SE, Pinho S, Mizoguchi T, Arai F, Runnels JM, Alt C, 　Teruya-Feldstein J, Mar JC, Singh R, **Suda T**, Lin CP, Frenette PS, Ito K: Self-renewal of a purified Tie2+ hematopoietic stem cell population relies on mitochondrial clearance. ***Science***. 2016 Dec 2;354(6316):1156-1160. doi: 10.1126/science.aaf5530. Epub 2016 Oct 13. **[IF =** **63.832]**

21. Karigane D, Kobayashi H, Morikawa T, Ootomo Y, Sakai M, Nagamatsu G, Kubota Y, Goda N, Matsumoto M, Nishimura EK, Soga T, Otsu K, Suematsu M, Okamoto S, **Suda T**, Takubo K\*: p38α Activates Purine Metabolism to Initiate Hematopoietic Stem/Progenitor Cell Cycling in Response to Stress. ***Cell Stem Cell***. 2016 Aug 4;19(2):192-204. doi: 10.1016/j.stem.2016.05.013. Epub 2016 Jun 23. **[IF =** **25.269]**

22. Nakamura-Ishizu A, Takubo K, Kobayashi H, Suzuki-Inoue K, **Suda T\***: CLEC-2 in megakaryocytes is critical for maintenance of hematopoietic stem cells in the bone marrow. ***J Exp Med***. 2015 Nov 16;212(12):2133-46. doi: 10.1084/jem.20150057. Epub 2015 Nov 9. **[IF=17.579]**

23. Yamashita M, Nitta E, **Suda T**: Aspp1 Preserves Hematopoietic Stem Cell Pool Integrity and Prevents Malignant Transformation. ***Cell Stem Cell***. 2015 Jul 2;17(1):23-34. doi: 10.1016/j.stem.2015.05.013. Epub 2015 Jun 25. **[IF =** **25.269]**

24. Kobayashi H, Kobayashi CI, Nakamura-Ishizu A, Karigane D, Haeno H, Yamamoto KN, Sato T, Ohteki T, Hayakawa Y, Barber GN, Kurokawa M, **Suda T**, Takubo K: Bacterial c-di-GMP affects hematopoietic stem/progenitors and their niches through STING. ***Cell Rep***. 2015 Apr 7;11(1):71-84. doi: 10.1016/j.celrep.2015.02.066. Epub 2015 Apr 2. **[IF = 9.995]**

25. Okabe K, Kobayashi S, Yamada T, Kurihara T, Tai-Nagara I, Miyamoto T, Mukouyama YS, Sato TN, **Suda T**, Ema M, Kubota Y\*: Neurons limit angiogenesis by titrating VEGF in retina. ***Cell***. 2014 Oct 23;159(3):584-96. doi: 10.1016/j.cell.2014.09.025. **[IF =** **66.850]**

26. Kobayashi I, Kobayashi-Sun J, Kim AD, Pouget C, Fujita N, **Suda T**, Traver D\*: Jam1a-Jam2a interactions regulate haematopoietic stem cell fate through Notch signalling. ***Nature***. 2014 Aug 21;512(7514):319-23. doi: 10.1038/nature13623. Epub 2014 Aug 13. **[IF = 69.504]**

27. Kobayashi CI, Takubo K, Kobayashi H, Nakamura-Ishizu A, Honda H, Kataoka K, Kumano K, Akiyama H, Sudo T, Kurokawa M, **Suda T\***: The IL-2/CD25 axis maintains distinct subsets of chronic myeloid leukemia-initiating cells. ***Blood***. 2014 Apr 17;123(16):2540-9. doi: 10.1182/blood-2013-07-517847. Epub 2014 Feb 26. **[IF =** **25.669]**

28. Tai-Nagara I, Matsuoka S, Ariga H, **Suda T\***: Mortalin and DJ-1 coordinately regulate hematopoietic stem cell function through the control of oxidative stress. ***Blood***. 2014 Jan 2;123(1):41-50. doi: 10.1182/blood-2013-06-508333. Epub 2013 Nov 15. **[IF =** **25.669]**

29.. **Suda T\***, Takubo K, Semenza GL: Metabolic regulation of hematopoietic stem cells in the hypoxic niche. ***Cell Stem Cell***. 2011 Oct 4;9(4):298-310. doi: 10.1016/j.stem.2011.09.010. **[IF =** **25.269]**

**Representative work**

1. Takubo K, Goda N, Yamada W, Iriuchishima H, Ikeda E, Kubota Y, Shima H, Johnson RS, Hirao A, Suematsu M, **Suda T\***: Regulation of the HIF-1alpha level is essential for hematopoietic stem cells. ***Cell Stem Cell***. 2010 Sep 3;7(3):391-402. doi: 10.1016/j.stem.2010.06.020. **[IF =** **25.269]**

2 . Ito K, Hirao A, Arai F, Takubo K, Matsuoka S, Miyamoto K, Ohmura M, Naka K, Hosokawa K, Ikeda Y, **Suda T\***: Reactive oxygen species act through p38 MAPK to limit the lifespan of hematopoietic stem cells. ***Nat Med***. 2006 Apr;12(4):446-51. doi: 10.1038/nm1388. Epub 2006 Mar 26. **[IF= 87.244]**

3.. Ito K, Hirao A, Arai F, Matsuoka S, Takubo K, Hamaguchi I, Nomiyama K, Hosokawa K, Sakurada K, Nakagata N, Ikeda Y, Mak TW, **Suda T\***: Regulation of oxidative stress by ATM is required for self-renewal of haematopoietic stem cells. ***Nature***. 2004 Oct 21;431(7011):997-1002. doi: 10.1038/nature02989. **[IF = 69.504]**

4. Arai F, Hirao A, Ohmura M, Sato H, Matsuoka S, Takubo K, Ito K, Koh GY, **Suda T\***: Tie2/Angiopoietin-1 signaling regulates hematopoietic stem cell quiescence in the bone marrow niche. ***Cell***. 2004 Jul 23;118(2):149-61. doi: 10.1016/j.cell.2004.07.004. **[IF =** **66.850]**

5. Takakura N, Watanabe T, Suenobu S, Yamada Y, Noda T, Ito Y, Satake M, **Suda T\***: A role for hematopoietic stem cells in promoting angiogenesis. ***Cell***. 2000 Jul 21;102(2):199-209. doi: 10.1016/s0092-8674(00)00025-8. **[IF =** **66.850]**

6. Arai F, Miyamoto T, Ohneda O, Inada T, Sudo T, Brasel K, Miyata T, Anderson DM, **Suda T\***: Commitment and differentiation of osteoclast precursor cells by the sequential expression of c-Fms and receptor activator of nuclear factor kappaB (RANK) receptors. ***J Exp Med***. 1999 Dec 20;190(12):1741-54. doi: 10.1084/jem.190.12.1741. **[IF=17.579]**

7. Yamaguchi Y, Hayashi Y, Sugama Y, Miura Y, Kasahara T, Kitamura S, Torisu M, Mita S, Tominaga A, Takatsu K, **Suda T\***: Highly purified murine interleukin 5 (IL-5) stimulates eosinophil function and prolongs in vitro survival. IL-5 as an eosinophil chemotactic factor. ***J Exp Med***. 1988 May 1;167(5):1737-42. doi: 10.1084/jem.167.5.1737. **[IF=** **17.579]**

8. **Suda T**, Suda J, Ogawa M\*: Disparate differentiation in mouse hemopoietic colonies derived from paired progenitors. ***Proc Natl Acad Sci U S A***. 1984 Apr;81(8):2520-4. doi: 10.1073/pnas.81.8.2520. **[IF= 10.700]**