

## 庄野雄介 (SHONO Yusuke)

### [抄録および論文査読]

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### [主要特許]

1. 出願番号:特願 008-316828／出願人：小野薬品工業株式会社／出願日平成 20 年 12 月 12 日／発明者：松島綱治, 上羽悟史, **庄野雄介**／発明の名称：移植片対腫瘍効果を保存した免疫学的再構築促進剤または感染症予防剤
2. 米国特許：INTESTINAL MICROBIOTA AND GVHD; PCT/US2015/062734, Marcel van den Brink, Robert Jenq, Eric G Pamer, Yung Taur, **Yusuke Shono**

### [招待講演] (学会一般口演発表は国内外多数のため割愛)

1. 庄野雄介：「骨髄 GVHD」 第 16 回血液科学セミナー 東京都 2010.10.23-10.24
2. 庄野雄介, 今村雅寛：「Bone Marrow Graft-versus-Host Disease: destruction of hematopoietic niche」 第 15 回九州骨髄移植カンファレンス 福岡市 2010.11.6
3. 上羽悟史, 庄野雄介, Wang Yong, 松島綱治：「骨髄 GVHD：骨芽細胞性造血ニッチの破壊」第 7 回麒麟塾 東京都 2011.6.4
4. 庄野雄介, Marcel van den Brink: 「Gut microbiota and graft-versus-host disease – effects of broad-spectrum antibiotic use on microbiota injury after allogeneic hematopoietic stem cell transplantation」 第 78 回日本血液学術集会 横浜市 2016.10.13-10.15
5. 庄野雄介: 「Gut microbiota injury in allogeneic hematopoietic stem cell transplantation」 The 23rd Annual Congress of APBMT 台北市 2018.11.2-11.4
6. 庄野雄介: 「Microbiota in allogeneic hematopoietic stem cell transplantation」 China Cancer Immunotherapy and Targeting Therapy Conference & Gaobo Medical Annual Meeting 北京市 2019.4.21-4.23

### [総説(和文)]

1. 庄野雄介, 笠井正晴：成人急性リンパ性白血病の造血幹細胞移植療法. 新しい診断と治療の ABC(36) 急性白血病 最新医学社 157-168, 2006
2. 庄野雄介：腸内細菌叢と移植片対宿主病-ヒト患者およびマウスにおける同種造血幹細胞移植後の広域スペクトラム抗菌薬使用に伴う移植片対宿主病関連死亡率の増加 臨床血液 58 巻 7 号 835-842, 2017

## [原著(和文)]

1. 庄野雄介, 上羽悟史, 今村雅寛, 松島綱治: GVHD の標的としての造血ニッチ. 血液・腫瘍科, 61(6): 737-745, 2010
2. 今村雅寛, 庄野雄介, 上羽悟史, 松島綱治: 特発性造血障害に関する調査研究 骨髄に対する移植片対宿主反応: ドナーCD4 陽性 T 細胞による造血ニッチ障害. 特発性造血障害に関する調査研究 平成 21 年度 総括・分担研究報告書, 47-48, 2010
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5. 今村雅寛, 庄野雄介: GVHD による造血障害の機序. 月刊臨床免疫・アレルギー科 56(3): 326-330, 2011
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7. 上羽悟史, 松島綱治, 庄野雄介: 骨髄 GVHD: 骨髄造血ニッチの破壊と免疫系の再構築障害. 医学のあゆみ, 242(9): 671-676, 2012

## [原著(英文)]

### Peer-Reviewed Journal and Publications

1. Docampo MD, Burgos da Silva M, Lazrak A, Nichols KB, Lieberman SR, Slingerland AE, Armijo GK, Shono Y, Nguyen CL, Monette S, Dwomoh E, Lee N, Geary CD, Perobelli SM, Smith M, Markey KA, Vardhana SA, Kousa AI, Zamir E, Greenfield I, Sun JC, Cross JR, Peled JU, Jenq RR, Stein-Thoeringer C, van den Brink MRM. Alloreactive T cells deficient of the short-chain fatty acid receptor GPR109A induce less graft-versus-host disease. *Blood*, 2021, 139:2392-2405.
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, 382:822-834.
3. Matsuzawa-Ishimoto Y, Hine A, Shono Y, Rudensky E, Lazrak A, Yeung F, Neil JA, Yao X, Chen YH, Heaney T, Schuster SL, Zwack EE, Axelrad JE, Hudesman D, Tsai JJ, Nichols K, Dewan MZ, Cammer M, Beal A, Hoffman S, Geddes B, Bertin J, Liu C, Torres VJ, Loke P, van den Brink MRM, Cadwell K. An intestinal organoid-based platform that

recreates susceptibility to T-cell-mediated tissue injury. *Blood*, 2020, 135, 2388-2401.

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6. Staffas A, Burgos da Silva M, Slingerland AE, Lazrak A, Bare CJ, Holman CD, Docampo MD, **Shono Y**, Durham B, Pickard AJ, Cross JR, Stein-Thoeringer C, Velardi E, Tsai JJ, Jahn L, Jay H, Lieberman S, Smith OM, Pamer EG, Peled JU, Cohen DE, Jenq RR, van den Brink MRM. Nutritional Support from the Intestinal Microbiota Improves Hematopoietic Reconstitution after Bone Marrow Transplantation in Mice. *Cell Host Microbe*, 2018, 23:447-457.

7. **Shono Y**, van den Brink MRM. Gut microbiota injury in allogeneic haematopoietic stem cell transplantation. *Nat Rev Cancer*, 2018, 18:283-295.

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9. Wertheimer T, Velardi E, Tsai J, Cooper K, Xiao S, Kloss CC, Ottmüller KJ, Mokhtari Z, Brede C, deRoos P, Kinsella S, Palikuqi B, Ginsberg M, Young LF, Kreines F, Lieberman SR, Lazrak A, Guo P, Malard F, Smith OM, **Shono Y**, Jenq RR, Hanash AM, Nolan DJ, Butler JM, Beilhack A, Manley NR, Rafii S, Dudakov JA, van den Brink MRM. Production of BMP4 by endothelial cells is crucial for endogenous thymic regeneration. *Sci Immunol*, 2018, 12: eaal2736.

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15. Peled JU, Devlin SM, Staffas A, Lumish M, Khanin R, Littmann ER, Ling L, Kosuri S, Maloy M, Slingerland JB, Ahr KF, Porosnicu Rodriguez KA, **Shono Y**, Slingerland AE, Docampo MD, Sung AD, Weber D, Alousi AM, Gyurkocza B, Ponce DM, Barker JN, Perales MA, Giralt SA, Taur Y, Pamer EG, Jenq RR\*, van den Brink MR\*. Intestinal Microbiota and Relapse After Hematopoietic-Cell Transplantation. *J Clin Oncol*, 2017, 35:1650-1659. \*shared last authorship.
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17. Mathewson N, Jenq R, Mathew A, Koenigsnecht M, Hanash A, Toubai T, Oravec-Wilson K, Wu SH, Sun Y, Rossi C, Fujiwara H, Byun J, **Shono Y**, Lindemans C, Calafiore M, Schmidt T, Honda K, Young V, Pennathur S, van den Brink MR, Reddy P. Gut microbiome derived metabolites modulate intestinal epithelial cell damage and mitigate Graft-versus-Host Disease. *Nat Immunol*, 2016, 17:505-513.
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