

<国際学術雑誌>

1. Mitamura S, Ishikawa K, Takahashi H, Sasaki Y, Ohnishi S, Maeda T. Topical amnion-derived mesenchymal stem cell conditioned medium attenuates chronic ultraviolet B-induced skin photodamage in hairless mice. **Photochemistry and Photobiology** (in press)
2. Sasaki Y, Ohnishi S, Takahashi H, Ishikawa K, Miura T, Funayama E, Okubo N, Yamamoto Y, Maeda T. Extracellular matrix modulating effects of amnion-derived mesenchymal stem cells on aging skin wounds in  $\alpha$ -Klotho knockout mice. **Geriatrics & Gerontology International** 2025;25(5):701-8.
3. Miyazawa M, Aikawa M, Takashima J, Kobayashi H, Minagawa T, Ohnishi S. A novel bioabsorbable covered stent for advancing bile duct injury management: A preclinical study in a porcine model (with video). **DEN Open** 2025;6(1):e70162.
4. Ishii R, Ohnishi S, Hojo M, Ishikawa K, Funayama E, Miura T, Okubo N, Okada K, Yamamoto Y, Maeda T. Hypoxic culture enhances the antimicrobial activity of amnion-derived mesenchymal stem cells, thereby reducing bacterial load and promoting wound healing in diabetic mice. **Biochemical and Biophysical Research Communications** 2024;739:150903.
5. Kawabori M, Kuroda S, Shichinohe H, Kahata K, Shiratori S, Ikeda S, Harada T, Hirata K, Tha KK, Aragaki M, Terasaka S, Ito YM, Nishimoto N, Ohnishi S, Yabe I, Houkin K, Fujimura M. Intracerebral transplantation of MRI-trackable autologous bone marrow stromal cells for patients with subacute ischemic stroke. **Med** 2024;5(5);432-44.e4.
6. Nishimura Y, Ono M, Okubo N, Sone T, Higashino M, Matsumoto S, Kubo M, Yamamoto K, Ono S, Ohnishi S, Sakamoto N. Application of polyglycolic acid sheets and basic fibroblast growth factor to prevent esophageal stricture after endoscopic submucosal dissection in pigs. **Journal of Gastroenterology** 2023;58(11);1094-104.

7. Fu Q, Ohnishi S, Suda G, Sakamoto N. Small-molecule inhibitor cocktail promotes the proliferation of pre-existing liver progenitor cells. **Stem Cell Reports** 2022;17(7);1589-603.
8. Miyazawa M, Aikawa M, Takashima J, Kobayashi H, Ohnishi S, Ikada Y. Bile duct alternatives: Pitfalls and promises: A narrative review. **World Journal of Gastroenterology** 2022;28(39);5707-22.
9. Takamiya S, Kawabori M, Yamazaki K, Yamaguchi S, Tanimori A, Yamamoto K, Ohnishi S, Seki T, Konno K, Tha KK, Hashimoto D, Watanabe M, Houkin K, Fujimura M. Intravenous transplantation of amnion-derived mesenchymal stem cells promotes functional recovery and alleviates intestinal dysfunction after spinal cord injury. **PLoS One** 2022;17(7);e0270606.
10. Takahashi H, Ohnishi S, Yamamoto Y, Hayashi T, Muraio N, Osawa M, Maeda T, Ishikawa K, Sakamoto N, Funayama E. Topical application of conditioned medium from hypoxically cultured amnion-derived mesenchymal stem cells promotes wound healing in diabetic mice. **Plastic and Reconstructive Surgery** 2021;147(6);1342-52.
11. Yamahara K, HamadaA, Soma T, Okamoto R, Okada M, Yoshihara S, Yoshihara K, Ikegame K, Tamaki H, Kaida K, Inoue T, Ohsugi Y, Nishikawa H, Hayashi H, Ito YM, Iijima H, Ohnishi S, Hashimoto D, Isoe T, Teshima T, Ogawa H, Sato N, Fujimori Y. Safety and efficacy of amnion-derived mesenchymal stem cell (AM01) in patients with steroid-refractory acute graft-versus-host disease after allogeneic hematopoietic stem cell transplantation: A study protocol for phase I/II Japanese trial. **BMJ Open** 2019;9(7);e026403.
12. Tsuda M, Ohnishi S, Mizushima T, Hosono H, Yamahara K, Ishikawa M, Abiko S, Katsurada T, Shimizu Y, Sakamoto N. Preventive effect of mesenchymal stem cell-culture supernatant on luminal stricture after endoscopic submucosal dissection in the rectum of pigs. **Endoscopy** 2018;50(10);1001-16.

13. Kawakubo K, Ohnishi S, Kuwatani M, Sakamoto N. Mesenchymal stem cell therapy for acute and chronic pancreatitis. **Journal of Gastroenterology** 2018;53(1);1-5.
14. Fu Q, Ohnishi S, Sakamoto N. Conditioned medium from human amnion-derived mesenchymal stem cells regulates activation of primary hepatic stellate cells. **Stem Cells International** 2018:2018;4898152.
15. Ohara M, Ohnishi S, Hosono H, Yamamoto K, Yuyama K, Nakamura H, Fu Q, Maehara O, Suda G, Sakamoto N. Extracellular vesicles from amnion-derived mesenchymal stem cells ameliorate hepatic inflammation and fibrosis in rats. **Stem Cells International** 2018:2018;3212643.
16. Sugiura R, Ohnishi S, Ohara M, Ishikawa M, Miyamoto S, Onishi R, Yamamoto K, Kawakubo K, Kuwatani M, Sakamoto N. Effects of human amnion-derived mesenchymal stem cells and conditioned medium in rats with sclerosing cholangitis. **American Journal of Translational Research** 2018;10(7);2102-14.
17. Otagiri S, Ohnishi S, Miura A, Hayashi H, Kumagai I, Ito YM, Katsurada T, Nakamura S, Okamoto R, Yamahara K, Cho KY, Isoe T, Sato N, Sakamoto N. Evaluation of amnion-derived mesenchymal stem cells for treatment-resistant moderate Crohn's disease: Study protocol for a phase I/II, dual-center, open-label, uncontrolled, dose-response trial. **BMJ Open Gastroenterology** 2018;5(1);e000206.
18. Sato C, Yamamoto Y, Funayama E, Furukawa H, Oyama A, Murao N, Hosono H, Kawakubo K, Sakamoto N, Ohnishi S. Conditioned medium obtained from mesenchymal stem cell culture prevents activation of keloid fibroblasts. **Plastic and Reconstructive Surgery** 2018;141(2);390-8.
19. Mizushima T, Ohnishi S, Hosono H, Yamahara K, Tsuda M, Shimizu Y, Kato M, Asaka M, Sakamoto N. Oral administration of conditioned medium obtained from mesenchymal stem cell culture prevents subsequent stricture

formation after esophageal submucosal dissection in pigs. **Gastrointestinal Endoscopy** 2017;86(3);542-52.e1.

20. Miyamoto S, Ohnishi S, Onishi R, Tsuchiya I, Hosono H, Katsurada T, Yamahara K, Takeda H, Sakamoto N. Therapeutic effects of human amnion-derived mesenchymal stem cell transplantation and conditioned medium enema in rats with trinitrobenzene sulfonic acid-induced colitis. **American Journal of Translational Research** 2017;9(3);940-52.
21. Kawakubo K, Ohnishi S, Fujita H, Kuwatani M, Onishi R, Masamune A, Takeda H, Sakamoto N. Effect of fetal membrane-derived mesenchymal stem cell transplantation in rats with acute and chronic pancreatitis. **Pancreas** 2016;45(5);707-13.
22. Onishi R, Ohnishi S, Higashi R, Watari M, Yamahara K, Okubo N, Nakagawa K, Katsurada T, Suda G, Natsuizaka M, Takeda H, Sakamoto N. Human amnion-derived mesenchymal stem cell transplantation ameliorates dextran sulfate sodium-induced severe colitis in rats. **Cell Transplantation** 2015;24(12);2601-14.
23. Ono M, Ohnishi S, Honda M, Ishikawa M, Hosono H, Onishi R, Nakagawa K, Takeda H, Sakamoto N. Effect of human amnion-derived mesenchymal stem cell transplantation in rats with radiation proctitis. **Cytotherapy** 2015;17(11);1545-59.
24. Kubo K, Ohnishi S, Hosono H, Fukai M, Kameya A, Higashi R, Yamada T, Onishi R, Yamahara K, Takeda H, Sakamoto N. Human amnion-derived mesenchymal stem cell transplantation ameliorates liver fibrosis in rats. **Transplantation Direct** 2015;1(4);e16.
25. Yamahara K, Harada K, Ohshima M, Ishikane S, Ohnishi S, Tsuda H, Otani K, Taguchi A, Soma T, Ogawa H, Katsuragi S, Yoshimatsu J, Harada-Shiba M, Kangawa K, Ikeda T. Comparison of angiogenic, cytoprotective, and immunosuppressive properties of human amnion- and chorion-derived mesenchymal stem cells. **PLoS One** 2014;9(2);e88319.

26. Nakanishi C, Nagaya N, Ohnishi S, Yamahara K, Takabatake S, Konno T, Hayashi K, Kawashiri M, Tsubokawa T, Yamagishi M. Gene and protein expression analysis of mesenchymal stem cells derived from rat adipose tissue and bone marrow. **Circulation Journal** 2011;75(9);2260-8.
27. Harada K, Yamahara K, Ohnishi S, Otani K, Kanoh H, Ishibashi-Ueda H, Minamino N, Kangawa K, Nagaya N, Ikeda T. Sustained-release adrenomedullin ointment accelerates wound healing of pressure ulcers. **Regulatory Peptides** 2011;168(1-3);21-6.
28. Ohnishi S, Okabe K, Obata H, Otani K, Ishikane S, Ogino H, Kitamura S, Nagaya N. Involvement of tazarotene-induced gene 1 (TIG1) in proliferation and differentiation of human adipose tissue-derived mesenchymal stem cells. **Cell Proliferation** 2009;42(3);309-16.
29. Otani K, Yamahara K, Ohnishi S, Obata H, Kitamura S, Nagaya N. Nonviral delivery of siRNA into mesenchymal stem cells by a combination of ultrasound and microbubbles. **Journal of Controlled Release** 2009;133(2);146-53.
30. Ohnishi S, Nagaya N. Stem cells for the treatment of heart failure. **Stem Cell Applications in Disease and Health**. Nova Science Publishers Inc. NY Dec. 2008. pp231-246.
31. Ohnishi S, Nagaya N. Tissue regeneration as next-generation therapy for COPD -potential applications. **International Journal of Chronic Obstructive Pulmonary Disease** 2008;3(4);509-14.
32. Ishikane S, Ohnishi S, Yamahara K, Sada M, Harada K, Mishima K, Iwasaki K, Fujiwara M, Kitamura S, Nagaya N, Ikeda T. Allogeneic injection of fetal membrane-derived mesenchymal stem cells induces therapeutic angiogenesis in a rat model of hindlimb ischemia. **Stem Cells** 2008;26(10);2625-33.

33. Yokokawa M, Ohnishi S, Ishibashi-Ueda H, Obata H, Otani K, Miyahara Y, Tanaka K, Shimizu W, Nakazawa K, Kangawa K, Kamakura S, Kitamura S, Nagaya N. Transplantation of mesenchymal stem cells improves atrioventricular conduction in a rat model of complete atrioventricular block. **Cell Transplantation** 2008;17(10-11);1145-55.
34. Otani K, Ohnishi S, Obata H, Ishida O, Kitamura S, Nagaya N. Contrast sonography enables noninvasive and quantitative assessment of neovascularization after stem cell transplantation. **Ultrasound in Medicine and Biology** 2008;34(12);1893-900.
35. Jin D, Harada K, Ohnishi S, Yamahara K, Kangawa K, Nagaya N. Adrenomedullin induces lymphangiogenesis and ameliorates secondary lymphedema. **Cardiovascular Research** 2008;80(3);339-45.
36. Ohnishi S, Yasuda T, Kitamura S, Nagaya N. Effect of hypoxia on gene expression of bone marrow-derived mesenchymal stem cells and mononuclear cells. **Stem Cells** 2007;25(5);1166-77.
37. Ohnishi S, Yanagawa B, Tanaka K, Miyahara Y, Obata H, Kataoka M, Kodama M, Ishibashi-Ueda H, Kangawa K, Kitamura S, Nagaya N. Transplantation of mesenchymal stem cells attenuates myocardial injury and dysfunction in a rat model of acute myocarditis. **Journal of Molecular and Cellular Cardiology** 2007;42(1);88-97.
38. Ohnishi S, Sumiyoshi H, Kitamura S, Nagaya N. Mesenchymal stem cells attenuate cardiac fibroblast proliferation and collagen synthesis through paracrine actions. **FEBS Letters** 2007;581(21);3961-6.
39. Ohnishi S, Nagaya N. Prepare cells to repair the heart: Mesenchymal stem cells for the treatment of cardiac failure. **American Journal of Nephrology** 2007;27(3);301-7.

40. Ohnishi S, Ohgushi H, Kitamura S, Nagaya N. Mesenchymal stem cells for the treatment of heart failure. **International Journal of Hematology** 2007;86(1);17-21.
  
41. Miyahara Y, Ohnishi S, Obata H, Ishino K, Sano S, Mori H, Kangawa K, Kitamura S, Nagaya N. Beraprost sodium enhances neovascularization in ischemic myocardium by mobilizing bone marrow cells in rats. **Biochemical and Biophysical Research Communications** 2006;349(4);1242-9.

<邦文雑誌>

1. 大西俊介

間葉系幹細胞を用いた消化管の再生医療

BIO Clinica, 2022:37(12);1094-7

2. 大西俊介

間葉系幹細胞による内視鏡的粘膜下層剥離術後の狭窄予防

安全に施行するためのESDテクニック, pp27-30, 医学書院, 2022年4月

3. 大西俊介

知らなきゃ損 腸管免疫学っておもしろい！ 間葉系幹細胞のキホン

消化器病サイエンス, 2020:4(4);47-51

4. 小田切信介, 大西俊介, 桂田武彦, 坂本直哉

IBD寛解導入療法における再生医療

臨床消化器内科, 2020:35(10);1263-6

5. 山本幸司, 大西俊介

ヒト羊膜由来間葉系幹細胞を用いた再生医療研究

遺伝子医学, 2019:9(2);74-6

6. 大原正嗣, 大西俊介, 坂本直哉

間葉系幹細胞による肝線維化治療

肝胆膵, 2019:79(5);853-9

7. 山原研一, 濱田彰子, 大西俊介, 相馬俊裕, 岡本里香, 中村志郎, 岡田昌也,

吉原哲, 吉原享子, 橋本大吾, 磯江敏幸, 豊嶋崇徳, 佐藤典宏, 藤盛好啓

急性GVHD・クローン病に対する羊膜由来間葉系幹細胞の医師主導治験 兵庫医科大学発・初認定ベンチャーによる開発をめざして

兵庫医科大学雑誌, 2018:43(1);41-5

8. 山原研一, 濱田彰子, 大西俊介, 黒田将子, 相馬俊裕, 岡本里香, 吉原哲,

吉原享子, 橋本大吾, 磯江敏幸, 豊嶋崇徳, 佐藤典宏, 小川啓恭, 藤盛好啓

羊膜由来間葉系幹細胞による急性GVHD治療

臨床免疫・アレルギー科, 2018:70(1);18-24

9. 大西俊介, 久保公利, 坂本直哉

羊膜由来間葉系幹細胞投与による肝線維化治療

肝胆膵, 2017:74(1);95-8

10. 坂本直哉, 山原研一, 大西俊介

羊膜由来間葉系幹細胞を用いた肝硬変の治療法の開発

羊膜由来間葉系幹細胞の再生医療製品化と急性 GVHD に対する治療応用

重症クローン病に対する同種卵膜間葉系幹細胞による新規治療法の開発

臨床評価, 2015:43(suppl XXXV);221-4

11. 大西俊介, 永谷憲歳

間葉系細胞を用いる心再生評価

バイオテクノロジーシリーズ 再生医療に用いられる細胞・再生組織の評価と安全性 (監修:大串始):181-6

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