

近年、心血管疾患への治療法は長足の進歩を遂げているにもかかわらず、現在でも重症の虚血性心疾患や末梢動脈疾患では有効な治療法もなく、救命できなかったり、四肢の切断に至る症例も少なくない。今後、虚血後血管新生におけるCD4陽性細胞ならびにTh17細胞の詳細な解析が行われることで、新たな血管新生機序の解明とTh17細胞を利用した血管新生療法の開発が期待される。

【文 献】

1. Yoshioka T, Takahashi M, Shiba Y, Suzuki C, Morimoto H, Izawa A, Ise H, Ikeda U. Granulocyte colony-stimulating factor accelerates reendothelialization and reduces neointimal formation after vascular injury in mice. *Cardiovasc Res* 70: 61-69, 2006
2. Shiba Y, Takahashi M, Yoshioka T, Yajima N, Morimoto H, Izawa A, Ise H, Hatake K, Motoyoshi K, Ikeda U. M-CSF accelerates neointimal formation in the early phase after vascular injury in mice: The critical role of the SDF-1-CXCR4 system. *Arterioscler Thromb Vasc Biol* 27: 283-289, 2007
3. Morimoto H, Takahashi M, Shiba Y, Izawa A, Ise H, Hongo M, Hatake K, Motoyoshi K, Ikeda U. Bone marrow-derived CXCR4+ cells mobilized by M-CSF participate in the prevention of cardiac dysfunction and remodeling after myocardial infarction in mice. *Am J Pathol* 171: 755-766, 2007
4. Shiba Y, Takahashi M, Hata T, Murayama H, Morimoto H, Ise H, Nagasawa T, Ikeda U. Bone marrow CXCR4 induction by cultivation enhances therapeutic angiogenesis. *Cardiovasc Res* 81: 169-177, 2009
5. Hata T, Takahashi M, Kawaguchi T, Kashima Y, Shiba Y, Ise H, Hida S, Iwakura Y, Taki S, Ikeda U. Contribution of Th17 cells, a new subset of CD4-positive T cells, to angiogenic response to hindlimb ischemia in mice. *American Heart Association Scientific Sessions*, Orlando, USA, 2009

研究成果の刊行に関する一覧表

研究成果の刊行に関する一覧表

雑誌

発表者氏名	論文タイトル	発表誌名	巻号	ページ	出版年
Kobayashi S, Ise H, Takahashi M, Goto M, Akaike T, Ikeda U.	Surface coating of bone marrow cells with N-acetylglucosamine for bone marrow implantation therapy.	<i>Biomaterials</i>	30	574-582	2009
Shiba Y, Takahashi M, Hata T, Murayama H, Morimoto H, Ise H, Nagasaki T, Ikeda U.	Bone marrow CXCR4 induction by cultivation enhances therapeutic angiogenesis.	<i>Cardiovasc Res</i>	81	169-177	2009
Koshikawa M, Aizawa K, Kasai H, Izwa A, Tomita T, Kumazaki S, Tsutsui H, Koyama J, Shimodaira S, Takahashi M, Ikeda U.	Elevated osteopontin levels in patients with peripheral arterial diseases.	<i>Angiology</i>	60	42-45	2009
Takahashi M, Izawa A, Ishigatubo Y, Fujimoto K, Miyamoto M, Horie T, Aizawa Y, Amano J, Minota S, Murohara T, Matsubara H, Ikeda U.	Therapeutic neovascularization by the implantation of autologous mononuclear cells in patients with connective tissue diseases.	<i>Curr Pharm Design</i>	15	2778-2783	2009
Matoba S, Matsubara H.	Therapeutic angiogenesis for peripheral artery diseases by autologous bone marrow cell transplantation.	<i>Curr Pharm Design</i>	15	2769-2777	2009
Kondo K, Shintani S, Shibata R, Murakami H, Murakami R, Imaizumi T, Kitagawa S, Murohara T.	Implantation of adipose-derived regenerative cells enhances ischemia-induced angiogenesis.	<i>Arterioscler Thromb Vasc Biol</i>	29	61-66	2009
Kondo M, Shibata R, Miura R, Shimano M, Kondo K, Li P, Ohashi T, Kihara S, Maeda N, Walsh K, Ouchi N, Murohara T.	Caloric restriction stimulates revascularization in response to ischemia via adiponectin-mediated activation of eNOS.	<i>J Biol Chem</i>	284	1718-1724	2009
Murohara T.	Autologous adipose tissue as a new source of progenitor cells for therapeutic angiogenesis.	<i>J Cardiol</i>	53	155-163 (Review).	2009
Ishii M, Numaguchi Y, Okumura K, Kubota R, Ma X, Murakami R, Naruse K, Murohara T.	Mesenchymal stem cell-based gene therapy with prostacyclin synthase enhanced neovascularization in hindlimb ischemia.	<i>Atherosclerosis</i>	206	109-118.	2009
Miura M, Numaguchi Y, Ishii M, Kubota R, Takeuchi T, Imamura A, Murakami R, Kondo T, Okumura K, <u>Murohara T.</u>	Differentiation capacity of endothelial progenitor cells correlates with endothelial function in healthy young men.	<i>Circ J</i>	73	1324-1329	2009

Kawamura Y, Ishii H, Aoyama T, Tanaka M, Takahashi H, Kumada Y, Toriyama T, <u>Murohara T.</u>	Nitinol stenting improves primary patency of the superficial femoral artery after percutaneous transluminal angioplasty in hemodialysis patients: A propensity-matched analysis.	<i>J Vasc Surg</i>	50	1057-1062	2009
Ideguchi H, Ohno S, Takase K, Tsukahara T, Kaneko T, Ishigatubo Y.	A case of Poncet's disease (tuberculous rheumatism).	<i>Rheumatol Int</i>	29	1097-1099	2009
Tomita N, Tokunaka M, Nakamura N, Takeuchi K, Koike J, Motomura S, Miyamoto K, Kikuchi A, Hyo R, Yakushijin Y, Masaki Y, Fujii S, Hayashi T, Ishigatubo Y, Miura I.	Clinicopathological features of lymphoma/leukemia patients carrying both <i>BCL2</i> and <i>MYC</i> translocations.	<i>Haematologica</i>	94	935-943	2009
Motohashi K, Ito S, Hagihara M, Maruta A, Ishigatubo Y, Kanamori H.	Cutaneous zygomycosis caused by <i>Cunninghamella bertholletiae</i> in a patient with chronic myelogenous leukemia in blast crisis.	<i>Am J Hematol</i>	84	447-448	2009
Tomita N, Takeuchi K, Hyo R, Hashimoto C, Takemura S, Taguchi J, Fujita H, Fujisawa S, Ogawa K, Motomura S, Ishigatubo Y.	Diffuse large B cell lymphoma without immunoglobulin light chain restriction by flow cytometry.	<i>Acta Haematol</i>	121	196-201	2009
Fujita A, Tomita N, Fujita H, Motohashi K, Hyo R, Yamazaki E, Hattori M, Fujisawa S, Kanamori H, Ogawa K, Motomura S, Kodama F, Ishigatubo Y.	Features of primary extranodal lymphoma in Kanagawa, a human T-cell leukemia virus type 1 monendemic area in Japan.	<i>Med Oncol</i>	26	49-54	2009
Kirino Y, Ihata A, Shizukuishi K, Hama M, Takase K, Suda A, Ueda A, Ohno S, Takeno M, Ishigatubo Y.	Multiple extra-articular synovial cysts complicated with rheumatoid arthritis.	<i>Mod Rheumatol</i>	19	563-566	2009
Tkase K, Ohno S, Ideguchi H, Murakami S, Takeno M, Ishigatubo Y.	Mycobacterium tuberculosis-specific immunospot assay of pleural exudate mononuclear cells is useful for the exclusion of tuberculous pleuritis in patients with lupus pleuritis.	<i>Lupus</i>	18	175-177	2009
Kudo M, Matsuno Y, Nakasendo A, Inoue S, Goto H, Tsukiji J, Watanuki Y, Ueda A,	Potential clinical benefit of the in situ hybridization method for the diagnosis of sepsis.	<i>J Infect Chemother</i>	15	23-26	2009

Kaneko T, Ishigatubo Y.					
Yamamoto M, Ueda A, Kudo M, Matsuo Y, Fukushima J, Nakae T, Kaneko T, Ishibatusho Y.	Role of MexZ and PA5471 in transcriptional regulation of mexXY in Pseudomonas aeruginosa.	<i>Microbiology</i>	155	3312-3321	2009
Murakami S, Takeno M, Kirino Y, Kobayashi M, Watanabe R, Kudo M, Ihata A, Ueda A, Ohno S, Watanuki Y, Kaneko T, Ishigatubo Y.	Screening of tuberculosis by interferon- γ assay before biologic therapy for rheumatoid arthritis.	<i>Tuberculosis</i>	89	136-141	2009
Oka H, Ueda A, Watanuki Y, Tsukiji J, Kuroda H, Akashi S, Hirai Y, Fuyuki T, Kaneko T, Ishigatubo Y.	The efficacy of high-dose penicillin for community-acquired pneumonia diagnosed by pneumococcal urine antigen test.	<i>J Infect Chemother</i>	15	108-112	2009
Kawanaka H, Takagi G, Miyamoto M, Tara S, Takagi I, Tanaka H, Yasutake M, Tabata Y, Mizuno K.	Therapeutic angiogenesis by controlled-release fibroblast growth factor in a patient with Churg-Strauss Syndrome complicated by an intractable ischemic leg ulcer.	<i>Am J Med Sci</i>	338	341-342	2009
宮本正章、高木 元、太良修平、高野仁司、高木郁代、安武正弘、水野杏一	再生医療の現状と将来展望 治療抵抗性末梢動脈疾患(PAD)に対する再生医療を応用した先進併用療法.	日本医科大学 医学会雑誌	5	33-37	2009
Hiraga T, Ninomiya T, Hosoya A, Takahashi M, Nakamura H.	Formation of bone-like mineralized matrix by periodontal ligament cells in vivo: a morphological study in rats.	<i>J Bone Miner Metab</i>	27	149-157	2009
Misawa R, Soeda J, Ise H, Takahashi M, Kubota K, Mita A, Nakata T, Miyagawa S.	Potential feasibility of early bone marrow cell injection into the spleen for creating functional hepatocytes.	<i>Transplantation</i>	87	1147-1154	2009
Takahashi M.	Genetic susceptibility to restenosis: Role of bone marrow cells and inflammatory response	<i>Arterioscler Thromb Vasc Biol</i>	10	1407-1408	2009
Abe H, Takahashi M, Yaegashi H, Eda S, Kitahara H, Tsunemoto H, Kamikozawa M, Koyama J, Yamazaki K, Ikeda U.	Valve repair improves central sleep apnea in heart failure patients with valvular heart disease.	<i>Circ J</i>	73	2148-2153	2009
Aso S, Yazaki Y, Kasai H, Takahashi M, Yoshio T, Yamamoto K, Ikeda U.	Anti-beta-adrenoreceptor autoantibodies and myocardial sympathetic nerve activity in chronic heart failure.	<i>Int J Cardiol</i>	131	240-245	2009
堀江 卓、川村明夫、津田一郎、米川元樹。	末梢血幹細胞による血管再生治療	脈管学	48	425-429	2009

