Hara-Miyauchi C, Tsuji O, Hanyu A, Okada S, Yasuda A, Fukano T, Akazawa C, Nakamura M, Imamura T, Matsuzaki Y, Okano HJ, Miyawaki A and Okano H.	Bioluminescent system for dynamic imaging of cell and animal behavior.	Biochem Biophys Res Commun.	419(2)	188-193	2012
Muto J, Imai T, Ogawa D, Nishimoto Y, Okada Y, Mabuchi Y, Kawase T, Iwanami A, Mischel PS, Saya H, Yoshida K, Matsuzaki Y, Okano H.	RNA-Binding protein Musashi1 modulates glioma cell growth through the post-transcriptional regulation of Notch and PI(3) Kinase/Akt signaling pathways.	PLoS One.	7(3)	e33431	2012
Mashiko H, Yoshida AC, Kikuchi SS, Niimi K, Takahashi E, Aruga J, Okano H, Shimogori T	Comparative anatomy of marmoset and mouse cortex from genomic expression.	J. Neurosci	32(15)	5039-5053	2012
Ohta S, Misawa A, Fukaya R, Miyoshi H, Okano H, Kawakami Y, Toda M.	Macrophage migration inhibitory factor (MIF) promotes cell survival and proliferation of neural stem/progenitor cells.	J Cell Sci.	125(Pt 13)	3210-3220	2012
Matsui T, Takano M, Yoshida K, Ono S, Fujisaki C, Matsuzaki Y, Yoshiaki Toyama Y, Nakamura M, Okano H, Akamatsu W.	Neural stem cells directly differentiated from partially reprogrammed fibroblasts rapidly acquire gliogenic competency.	Stem Cells	30(6)	1109-1119	2012
Kagara N, Huynh KT, Kuo C, Okano H, Shin Sim M, Elashoff D, Chong K, Giuliano AE, Hoon DS.	Epigenetic Regulation of Cancer Stem Cell Genes in Triple-Negative Breast Cancer.	Am J Pathol.	181(1)	257-267	2012
Yano H, Yamamoto-Hino M, Awano W, Aoki-Kinoshita KF, Tsuda-Sakurai K, Okano H, Goto S.	Identification of Proteasome Components Required for Apical Localization of Chaoptin Using Functional Genomics.	J Neurogenet.	72(7)	1059-1067	2012
Mochizuki S, Soejima K, Shimoda M, Abe H, Sasaki A, Okano HJ, Okano H, Okada Y	Effect of ADAM28 on Carcinoma Cell Metastasis by Cleavage of von Willebrand Factor.	J Natl Cancer Inst.	104(12)	906-922	2012
Matsumoto K, Yokoo T, Matsunari H, Iwai S, Yokote S, Teratani T, Gheisari Y, Tsuji O, Okano H, Utsunomiya Y, Hosoya T, Okano HJ, Nagashima H, Kobayashi E.	Xenotransplanted embryonic kidney provides a niche for endogenous mesenchymal stem cell differentiation into erythropoietin-producing tissue.	Stem Cells	30 (6)	1228-1235	2012

Seko Y, Azuma N, Kaneda M, Nakatani K, Miyagawa Y, Noshiro Y, Kurokawa R, Okano H, Umezawa A.	Umezawa A.: Derivation of Human Differential Photoreceptor-like Cells from the Iris by Defined Combinations of CRX, RX and NEUROD.	PLoS One.	7(4)	e35611	2012
Hirota Y, Sawada M, Kida YS, Huang SH, Yamada O, Sakaguchi M, Ogura T, Okano H, Sawamoto K.	Roles of Planar Cell Polarity Signaling in Maturation of Neuronal Precursor Cells in the Postnatal Mouse Olfactory Bulb.	Stem Cells.	30(8)	1726-1733	2012
Suyama S, Suanabori T, Kanki H, Sawamoto K, Okano H.	Purinergic signaling promotes cell proliferation of transit-amplifying cells in adult mouse subventricular zone.	J. Neurosci	32(27)	9238-9247	2012
Ince-Dunn G, Okano HJ, Jensen KB, Park WY, Zhong R, Ule J, Mele A, Fak JJ, Yang C, Zhang C, Yoo J, Herre M, Okano H, Noebels JL, Darnell RB.	Neuronal Elav-like (Hu) Proteins Regulate RNA Splicing and Abundance to Control Glutamate Levels and Neuronal Excitability.	Neuron	75(6)	1067-1080	2012
Yagi T, Kosakai A, Ito D, Okada Y, Akamatsu W, Nihei Y, Nabetani A, Ishikawa F, Arai Y, Hirose N, Okano H, Suzuki N.	Establishment of induced pluripotent stem cells from centenarians for neurodegenerative disease research.	PLoS ONE	7(7)	e41572	2012
Matsuda S, Okano HJ, Tsutsumi S, Aburatani H, Saga Y, Matsuzaki Y, Akaike A, Sugimoto H and Okano H.	Sox21 promotes hippocampal adult neurogenesis through the transcriptional repression of Hes5 gene.	J Neurosci.	32(36)	12543-12557	2012
Sasaki T, Niizeki H, Shimizu A, Shiohama A, Hirakiyama A, Okuyama T, Seki A, Kabashima K, Otsuka A, Ishiko A, Tanese K, Miyakawa SI, Sakabe JI, Kuwahara M, Amagai M, Okano H, Suematsu M, Kudoh J.	Identification of mutations in the prostaglandin transporter gene SLCO2A1 and its phenotype-genotype correlation in Japanese patients with pachydermoperiostosis.	J Dermatol Sci.	68(1)	36-44	2012
Mukai A, Yamamoto-Hino M, Komada M, Okano H, Goto S.	Balanced ubiquitination determines cellular responsiveness to extracellular stimuli.	Cell Mol Life Sci.	69(23)	4007-4016	2012

Kuzumaki N, Suzuki A, Narita M, Hosoya T, Nagasawa A, Imai S, Yamamizu K, Morita H, Nagase H, Okada Y, Okano HJ, Okano H, Suzuki T, Narita M.	Multiple analyses of G-protein coupled receptor (GPCR) expression in the development of gefitinib-resistance in transforming non-small-cell lung cancer.	PLoS ONE	7(10)	e44368	2012
Namiki J, Suzuki N, Masuda T, Ishihama Y, Okano H	Nestin is phosphorylated in adult neural stem/progenitor cells and not endothelial progenitor cells.	Stem Cell International	2012	430138	2012
Konomi T, Fujiyoshi K, Hikishima K, Komaki Y, Tsuji O, Okano HJ, Toyama Y, Okano H, Nakamura, M	In vivo diffusion tensor imaging of injured spinal cord in common marmosets.	Neuroimage	63(4)	1841-1853	2012
Omoto M, Yoshida S, Miyashita H, Kawakita T, Yoshida K, Kishino A, Kimura T, Shibata S, Tsubota K, Okano H and Shimmura S.	The Semaphorin 3A inhibitor SM-345431 accelerates peripheral nerve regeneration and sensitivity in a murine corneal transplantation model.	PLoS ONE	7(11)	e47716	2012
Kumamaru H, Ohkawa Y, Saiwai H, Yamada H, Kubota K, Kobayakawa K, Akashi K, Okano H, Iwamoto Y, Okada S.	Direct isolation and RNA-seq reveal environment-dependent properties of engrafted neural stem/progenitor cells.	Nature Commun	3	1140	2012
Hatou S, Yoshida S, Higa K, Miyashita H, Inagaki E, Okano H, Tsubota K, Shimmura S.	Functional corneal endothelium derived from corneal stroma stem cells of neural crest origin by retinoic acid and Wnt/β-catenin signaling.	Stem Cells Dev.		Epub ahead of print	2012
Hikishima K, Sawada K, Murayama AY, Komaki Y, Kawai K, Sato N, Inoue T, Itoh T, Momoshima S, Irikki A, Okano HJ, Sasaki E, Okano H.	Time-course and high-resolution magnetic resonance imaging of brain development in the common marmoset.	Neuroscience	230 (29)	102-113	2013
Takagi T, Kimura Y, Shibata S, Saito H, Ishii K, Okano HJ, Toyama Y, Okano H, Tabata Y, Nakamura M.	Sustained bFGF-Release Tubes for Peripheral Nerve Regeneration: Comparison with Autograft.	Plast Reconstr Surg.	130(4)	866-876	2012

Kanzaki S, Fujioka M, Yasuda A, Shibata S, Nakamura M, Okano HJ, Ogawa K, Okano H.	Novel in vivo imaging analysis of an inner ear drug delivery system in mice: comparison of inner ear drug concentrations over time after transtympanic and systemic injections.	PLoS One.	7(12)	e48480	2012
Imaizumi Y, Okada Y, Akamatsu W, Koike M, Kuzumaki N, Hayakawa H, Nihira T, Kobayashi T, Ohyama M, Sato S, Takanashi M, Funayama M, Hirayama A, Soga T, Hishiki T, Suematsu M, Yagi T, Ito D, Kosakai A, Hayashi K, Shouji M, Nakanishi A, Suzuki N, Mizuno Y, Mizushima N, Amagai M, Uchiyama Y, Mochizuki H, Hattori N, Okano H.	Mitochondrial dysfunction associated with increased oxidative stress and alpha-synuclein accumulation in PARK2 iPSC-derived neurons and postmortem brain tissue.	Mol Brain.	5(1)	35	2012
Shimada H, Okada Y, Ibata K, Ebise H, Ota S, Tomioka I, Nomura T, Maeda T, Kohda K, Yuzaki M, Sasaki E, Nakamura M, Okano H.	Efficient derivation ofmultipotent neural stem/progenitor cells from non-human primate embryonic stem cells.	PLoS One.	7(11)	e49469	2012
Sakai D, Nakamura Y, Nakai T, Mishima T, Kato S, Grad S, Alini M, Risbud MV, Chan D, Cheah KSE, Yamamura K, Masuda K, Okano H, Ando K, Mochida J.	Exhaustion of nucleus pulposus progenitor cells with ageing and degeneration of the intervertebral disc.	Nat Comm	3,	1264	2012
Kobayashi Y, Okada Y, Itakura G, Iwai H, Nishimura S, Nori S, Hikishima K, Konomi T, Fujiyoshi K, Tsuji O,, Toyama Y, Yamanaka S, Nakamura M, H. Okano H	Human iPSC-derived neural stem cells promote functional recovery after spinal cord injury in common marmosets without tumorigenicity.	PLoS ONE	7(12)	e52787	2012
Takahashi T, Suzuki H, Imai T, Shibata S, Tabuchi Y, Tsuchimoto K, Okano H, Hibi T.	Musashi-1 post-transcriptionally enhances phosphotyrosine-binding domain-containing m-Numb protein expression in regenerating gastric mucosa.	PLoS ONE	8(1)	e53540	2012

Takano M, Komaki Y, Hikishima K, Konomi T, Fujiyoshi K, Tsuji O, Toyama Y, Okano H, Nakamura M.	In vivo tracing of neural tracts in tip-toe walking Yoshimura mice by diffusion tensor tractography.	Spine	38(2)	E66-72	2012
Takano M, Hikishima K, Fujiyoshi K, Shibata S, Yasuda A , Konomi T, Hayashi A, Baba H, Honke K, Toyama Y, Okano H, Nakamura M	MRI characterization of paranodal junction failure and related spinal cord changes in mice.	PLoS ONE	7(12)	e52904	2012
Murata J, Ikeda K, Okano H.	Notch signaling and the developing inner ear.	Adv Exp Med Biol.	727	161-173	2012
Okano H.	The first clinical trial in Tohoku University Hospital after the great east Japan Earthquake: The heroic efforts of my friend, Professor Masashi Aoki.	Keio J Med.	61 (1)	3-9	2012
Kawahara H, Imai T, Okano H.	MicroRNAs in Neural Stem Cells and Neurogenesis.	Front Neurosci.	6(30)	N/A	2012
Ito D, Okano H, Suzuki N	Accelerating progress in iPS cell research for neurological diseases.	Annal. Neurol	72(2)	167-74	2012
Nakamura M, Tsuji O, Nori S, Toyama Y, Okano H	Cell transplantation for spinal cord injury focusing on iPS cells.	Expert Opin Biol Ther.	12(7)	811-21	2012
Sakaguchi M, Okano H	Neural stem cells, adult neurogenesis and Galectin-1: from bench to bedside.	Dev Neurobiol.	72(7)	1059-1067	2012
Houlihan DD, Mabuchi Y, Morikawa S, Niibe K, Araki D, Suzuki S, Okano H and Matsuzaki Y	Prospective isolation of murine mesenchymal stem cells based on positive expression of Sca-1 and PDGFRa.	Nature Protoc.	7(12)	2103-2111	2012
Okano H, Hikishima K, Iriki A, Sasaki E	The common marmoset as a novel animal model system for biomedical and neuroscience research applications.	Semin Fetal Neonatal Med.	17(6)	336-340	2012
Fujiyoshi K, Konomi T, Yamada M, Hikishima K, Tsuji O, Komaki Y, Momoshima S, Toyama Y, Nakamura M, Okano H.	Diffusion tensor imaging and tractography of the spinal cord: From experimental studies to clinical application.	Exp Neurol.	242	74-82	2013

Imamura M, Okuno H, Tomioka I, Kawamura Y, Lin ZY, Nakajima R, Akamatsu W, Okano HJ, Matsuzaki Y, Sasaki E, Okano H.	Derivation of induced pluripotent stem cells by retroviral gene transduction in Mammalian species.	Methods Mol Biol.	925	21-48	2012
Matsui K, Akamatsu W, Nakamura M, Okano H.	Regeneration of the damaged central nervous system through reprogramming technology: basic concepts and potential application for cell replacement therapy.	Exp Neurol.	S0014-4886(12)	00378-0	2012
Hirata A, Utikal J, Yamashita S, Aoki H, Watanabe A, Yamamoto T, Okano H, Bardeesy N, Kunisada T, Ushijima T, Hara A, Jaenisch R, Hochedlinger K, Yamada Y.	Dose-dependent roles for canonical Wnt signalling in de novo crypt formation and cell cycle properties of the colonic epithelium.	Development.	140(1)	66-75	2013
Nishimura S, Yasuda A, Iwai H, Takano M, Kobayashi Y, Nori S, Tsuji O, Fujiyoshi K, Takahashi Y, Ebise H, Toyama Y, Okano H, Nakamura M.	Time-dependent changes in the microenvironment of injured spinal cord affects the therapeutic potential of neural stem cell transplantation for spinal cord injury.	Mol. Brain	6(3)	Epub ahead of print	2013
Takahashi T, Suzuki H, Imai T, Shibata S, Tabuchi Y, Tsuchimoto K, Okano H, Hibi T.	Musashi-1 Post-Transcriptionally Enhances Phosphotyrosine-Binding Domain-Containing m-Numb Protein Expression in Regenerating Gastric Mucosa.	PLoS One	8(1)	e53540	2013
Mizutari K, Fujioka M, Hosoya M, Bramhall N, Okano HJ, Okano H, Edge ASB.	Notch inhibition induces cochlear hair cell regeneration and recovery from noise-induced hearing loss.	Neuron	77(1)	58-69	2013
Imai S, Ikegami D, Yamashita A, Shimizu T, Narita M, Niikura K, Furuya M, Kobayashi Y, Miyashita K, Okutsu D, Kato A, Nakamura A, Araki A, Omi K, Nakamura M, Okano HJ, Okano H, Ando T, Takeshima H, Ushijima T, Kuzumaki N, Suzuki T and Narita M.	Epigenetic transcriptional activation of MCP-3 contributes to long-lasting neuropathic pain.	Brain	136(3)	828-843	2013

Nishimoto Y, Okano HJ, Imai T, Poole AJ, Suzuki N, Keirstead H and Okano H	Cellular toxicity induced by the 26-kDa fragment and amyotrophic lateral sclerosis (ALS)-associated mutant forms of TDP-43 in human embryonic stem cell-derived motor neurons.	Neurology and Clinical Neuroscience	1	24-31	2013
Veraitch O, Kobayashi T, Imaizumi Y, Akamatsu W, Sasaki T, Yamanaka , Amagai M, Okano H and Ohyama	Human induced pluripotent stem cell-derived ectodermal precursor cells contribute to hair follicle morphogenesis in vivo.	J Invest Dermatol.			2013
Shinozaki M, Yasuda A, Nori S, Saito N, Toyama Y, Okano H, Nakamura M.	Novel method for analyzing locomotor ability after spinal cord injury in rats.	Neurologia medico-chirurgica		In Press	2013
Araki D, Kawamura Y, Niibe K, Suzuki S, Morikawa S, Mabuchi Y, Nakagawa T, Okano H, Matsuzaki Y:	Primary evaluation of induced pluripotent stem cells using flow cytometry.	Inframmation and Regeneration		In Press	2013
Nitta M, Imamura M, Inoue Y, Kunitomo Y, Lin ZY, Ogawa T, Yogo K,Ishida-Kitagawa N, Fukunaga N, Okano H, Sato E, Takeya T, Miyoshi J.	Aberrant gene expression and sexually incompatible genomic imprinting in oocytes derived from XY mouse embryonic stem cells in vitro.	PLoS ONE		In Press	2013
Nihei Y, Ito D, Okada Y, Akamatsu W, Yagi T, Yoshizaki T, Okano H, Suzuki N.	Enhanced aggregation of androgen receptor in induced pluripotent stem cell-derived neurons from spinal and bulbar muscular atrophy.	J Biol Chem.		Epub ahead of print	2013
Iwanami A, Gini B, Zanca C, Assuncao A, Nael A, Dang J, Yang H, Zhu S, Kohyama J, Kitabayashi I, Cavenee WK, Cloughesy TF, Furnari TF, Nakamura M, Toyama Y, Okano H, Mischel P.	PML mediates Glioblastoma resistance to mTOR-targeted therapies.	Proc.Natl.Acad.Sci.USA		Epub ahead of print	2013
Nakamura M, Okano H	Cell transplantation for spinal cord injury focusing on induced pluripotent stem cells.	Cell Res.	23(1)	70-80	2013
Okano H, Nakamura M, Yoshida K, Okada Y, Tsuji O, Nori S, Ikeda E, Yamanaka S, Miura K.	Steps toward safe cell therapy using induced pluripotent stem cells.	Circulation Research	112(3)	523-533	2013

Ohta S, Imaizumi Y, Akamatsu W, Okano H, Kawakami Y.	Generation of HumanMelanocytes from Induced Pluripotent Stem Cells.	Methods Mol Biol.	989	193-215	2013

雑誌

西田　幸二

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Takagi R, Yamato M, Kushida A, Nishida K, Okano T.	Profiling of Extracellular Matrix and Cadherin Family Gene Expression in Mouse Feeder Layer Cells: Type VI Collagen Is a Candidate Molecule Inducing the Colony Formation of Epithelial Cells.	Tissue Eng Part A.	18	2539-48	2012
Inoue Y, Oshika T, Nishida K.	"The beginning of new era of corneal research" 17th annual meeting of the kyoto cornea club december 2-3, 2011.	Cornea	31 Suppl 1	S1-2	2012
Koh S, Maeda N, Nakagawa T, Nishida K.	Quality of vision in eyes after selective lamellar keratoplasty	Cornea	31 Suppl 1	S45-9	2012
Hayashi R, Ishikawa Y, Ito M, Kageyama T, Takashiba K, Fujioka T, Tsujikawa M, Miyoshi H, Yamato M, Nakamura Y, Nishida K.	Generation of corneal epithelial cells from induced pluripotent stem cells derived from human dermal fibroblast and corneal limbal epithelium.	PLoS One	7	e45435	2012
Koh S, Maeda N, Soma T, Hori Y, Tsujikawa M, Watanabe H, Nishida K.	Development of Methicillin-Resistant Staphylococcus aureus Keratitis in a Dry Eye Patient With a Therapeutic Contact Lens.	Eye Contact Lens	38	200-2	2012

雑誌

大和　雅之

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Tanaka N, Kataoka T, Kaneko M, Yamato M, Okano T.	Scale-independent stiffness measurement of upper limbs with lymphedema by a circular compression.	Conf Proc IEEE Eng Med Biol Soc.	2012	2013-6	2012
Matsuura K, Wada M, Konishi K, Sato M, Iwamoto U, Sato Y, Tachibana A, Kikuchi T, Iwamiya T, Shimizu T, Yamashita JK, Yamato M, Hagiwara N, Okano T.	Fabrication of mouse embryonic stem cell-derived layered cardiac cell sheets using a bioreactor culture system.	PLoS One.	7(12)	e52176	2012
Nakajima R, Kobayashi T, Moriya N, Mizutani M, Kan K, Nozaki T, Saitoh K, Yamato M, Okano T, Takeda S.	A novel closed cell culture device for fabrication of corneal epithelial cell sheets.	J Tissue Eng Regen Med.		doi: 10.1002/term.1639.	2012
Haraguchi Y, Shimizu T, Yamato M, Okano T.	Concise review: cell therapy and tissue engineering for cardiovascular disease.	Stem Cells Transl Med.	1(2)	136-41	2012
Sasaki R, Matsumine H, Matsumoto N, Watanabe Y, Yamato M, Okano T, Ando T.	Spontaneous fibrosarcoma in an experimental aged Lewis rat.	Lab Anim	46(4)	352-5	2012
Takagi R, Yamato M, Kanai N, Murakami D, Kondo M, Ishii T, Ohki T, Namiki H, Yamamoto M, Okano T.	Cell sheet technology for regeneration of esophageal mucosa	World J Gastroenterol.	18(37)	5145-50.	2012
Yoshida T, Kumashiro Y, Iwata T, Ishihara J, Umemoto T, Shiratsuchi Y, Kawashima N, Sugiyama T, Yamato M, Okano T.	Requirement of integrin β3 for iron transportation during enamel formation.	J Dent Res.	91(12)	1154-9.	2012
Kondo M, Yamato M, Takagi R, Namiki H, Okano T.	The regulation of epithelial cell proliferation and growth by IL-1 receptor antagonist.	Biomaterials.	34(1)	121-9.	2013
Hayashi R, Ishikawa Y, Ito M, Kageyama T, Takashiba K, Fujioka T, Tsujikawa M, Miyoshi H, Yamato M, Nakamura Y, Nishida K.	Generation of corneal epithelial cells from induced pluripotent stem cells derived from human dermal fibroblast and corneal limbal epithelium.	PLoS One.	7(9)	e45435.	2012

Yamada M, Utoh R, Ohashi K, Tatsumi K, Yamato M, Okano T, Seki M.	Controlled formation of heterotypic hepatic micro-organoids in anisotropic hydrogel microfibers for long-term preservation of liver-specific functions.	Biomaterials.	33(33)	8304-15.	2012
Akiyama Y, Yamato M, Higashimori T, Okano T, Sakurai H.	Development of eczematous symptoms by the implanted breast prosthesis.	Aesthetic Plast Surg.	36(5)	1155-9	2012
Kanai N, Yamato M, Ohki T, Yamamoto M, Okano T.	Fabricated autologous epidermal cell sheets for the prevention of esophageal stricture after circumferential ESD in a porcine model.	Gastrointest Endosc.	76(4)	873-81	2012
Matsuura K, Wada M, Shimizu T, Haraguchi Y, Sato F, Sugiyama K, Konishi K, Shiba Y, Ichikawa H, Tachibana A, Ikeda U, Yamato M, Hagiwara N, Okano T.	Creation of human cardiac cell sheets using pluripotent stem cells.	Biochem Biophys Res Commun.	425(2)	321-7	2012
Tang Z, Akiyama Y, Itoga K, Kobayashi J, Yamato M, Okano T.	Shear stress-dependent cell detachment from temperature-responsive cell culture surfaces in a microfluidic device.	Biomaterials.	33(30)	7405-11.	2012
Tamura A, Kobayashi J, Yamato M, Okano T.	Thermally responsive microcarriers with optimal poly(N-isopropylacrylamide) grafted density for facilitating cell adhesion/detachment in suspension culture.	Acta Biomatr.	8(11)	3904-13	2012
Takagi R, Yamato M, Kushida A, Nishida K, Okano T.	Profiling of extracellular matrix and cadherin family gene expression in mouse feeder layer cells: type VI collagen is a candidate molecule inducing the colony formation of epithelial cells.	Tissue Eng Part A.	18(23-24)	2539-48.	2012
Matsumine H, Sasaki R, Yamato M, Okano T, Sakurai H.	A polylactic acid non-woven nerve conduit for facial nerve regeneration in rats.	J Tissue Eng Regen Med.		doi: 10.1002/term.1540.	2012
Tanaka Y, Yamato A, Yaji N, Yamato M.	A simple stock of optical glasses for a catastrophic disaster: eyewear donations after the 2011 Pacific Coast Tohoku earthquake.	Tohoku J Exp Med.	227(2)	93-5.	2012

Sasaki R, Yamato M, Takagi R, Ohki T, Matsumine H, Okano T, Ando T.	Punch and spindle-shaped biopsies for collecting oral mucosal tissue for the fabrication of transplantable autologous epithelial cell sheets.	J Biomed Mater Res A.	100(10)	2849-54	2012
Tamura A, Nishi M, Kobayashi J, Nagase K, Yajima H, Yamato M, Okano T.	Simultaneous enhancement of cell proliferation and thermally induced harvest efficiency based on temperature-responsive cationic copolymer-grafted microcarriers	Biomacromolecules.	13(6)	1765-73	2012
Ohki T, Yamato M, Ota M, Takagi R, Murakami D, Kondo M, Sasaki R, Namiki H, Okano T, Yamamoto M.	Prevention of esophageal stricture after endoscopic submucosal dissection using tissue-engineered cell sheets.	Gastroenterology.	143(3)	582-8.e1-2.	2012
Ito S, Sato M, Yamato M, Mitani G, Kutsuna T, Nagai T, Ukai T, Kobayashi M, Kokubo M, Okano T, Mochida J.	Repair of articular cartilage defect with layered chondrocyte sheets and cultured synovial cells.	Biomaterials.	33(21)	5278-86	2012
Nakayama M, Yamada N, Kumashiro Y, Kanazawa H, Yamato M, Okano T.	Thermoresponsive poly(N-isopropylacrylamide)-based block copolymer coating for optimizing cell sheet fabrication.	Macromol Biosci.	12(6)	751-60	2012
Tanaka Y, Kubota A, Yokokura S, Uematsu M, Shi D, Yamato M, Okano T, Quantock AJ, Nishida K.	Optical mechanical refinement of human amniotic membrane by dehydration and cross-linking.	J Tissue Eng Regen Med		doi: 10.1002/term.479.	2012
Haraguchi Y, Shimizu T, Sasagawa T, Sekine H, Sakaguchi K, Kikuchi T, Sekine W, Sekiya S, Yamato M, Umezu M, Okano T.	Fabrication of functional three-dimensional tissues by stacking cell sheets in vitro.	Nat Protoc	7(5)	850-8	2012
Mikami H, Kuwahara G, Nakamura N, Yamato M, Tanaka M, Kodama S.	wo-layer tissue engineered urethra using oral epithelial and muscle derived cells.	J Urol.	187(5)	1882-9	2012
Kumashiro Y, Ikezoe Y, Hayashi T, Okabayashi Y, Tamada K, Yamato M, Okano T, Hara M.	Temperature-modulated adsorption of poly(N-isopropylacrylamide)-grafted ferritin on solid substrate.	Colloids Surf B Biointerfaces.	95	57-64.	2012

Ebihara G, Sato M, Yamato M, Mitani G, Kutsuna T, Nagai T, Ito S, Ukai T, Kobayashi M, Kokubo M, Okano T, Mochida J.	Cartilage repair in transplanted scaffold-free chondrocyte sheets using a mini pig model.	Biomaterials.	33(15)	3846-51	2012
Tamura A, Kobayashi J, Yamato M, Okano T.	Temperature-responsive poly(N-isopropylacrylamide)-grafted microcarriers for large-scale non-invasive harvest of anchorage-dependent cells.	Biomaterials	33(15)	3803-12.	2012
Kanzaki M, Yamato M, Takagi R, Kikkawa T, Isaka T, Okano T, Onuki T.	Controlled collagen crosslinking process in tissue-engineered fibroblast sheets for preventing scar contracture on the surface of lungs.	J Tissue Eng Regen Med.		doi: 10.1002/term.533.	2012

IV. 資　料

厚生労働科学研究費補助金
難病・がん等の疾患分野の医療の実用化
研究事業（再生医療関係研究分野）
平成２４年度第一回研究班会議
アジェンダ

平成２４年７月１８日（水）１４：００～１７：００

於:東京大学医科学研究所　総合研究棟８階　大セミナー室

14:00-14:15	代表者からの挨拶と現状説明
14:15-15:00	新メンバー（秋山教授）からの自己紹介等
15:00-15:10	休憩
15:10-16:30	残りのメンバーからの進捗報告
16:30-17:00	総合討論

再生医療臨床実現化ハイウェイ研究事業
平成２４年度第２回班会議

平成２４年１１月２１日（水）
１０：３０～１２：００
東京大学医科学研究所　総合研究棟８階　大セミナー室

１．開会

２．平成２４年度研究事業の進捗状況について（報告）
※分担の先生方より、各２－３分のご報告をいただきます。

３．各種説明・検討事項
１）システム導入の進捗について
２）ソフトウェア開発の進捗について
３）システムの今後の運用について
４）プロジェクトマネジメントオフィスの設置について
５）来年度以降の体制について
※中井謙太研究代表よりご説明いただきます。

４．その他

厚生労働科学研究費補助金

再生医療臨床実用化ハイウェイ

平成24年度 第2回研究班会議

研究代表者からの報告

東京大学医科学研究所

中井 謙太

平成24年11月21日

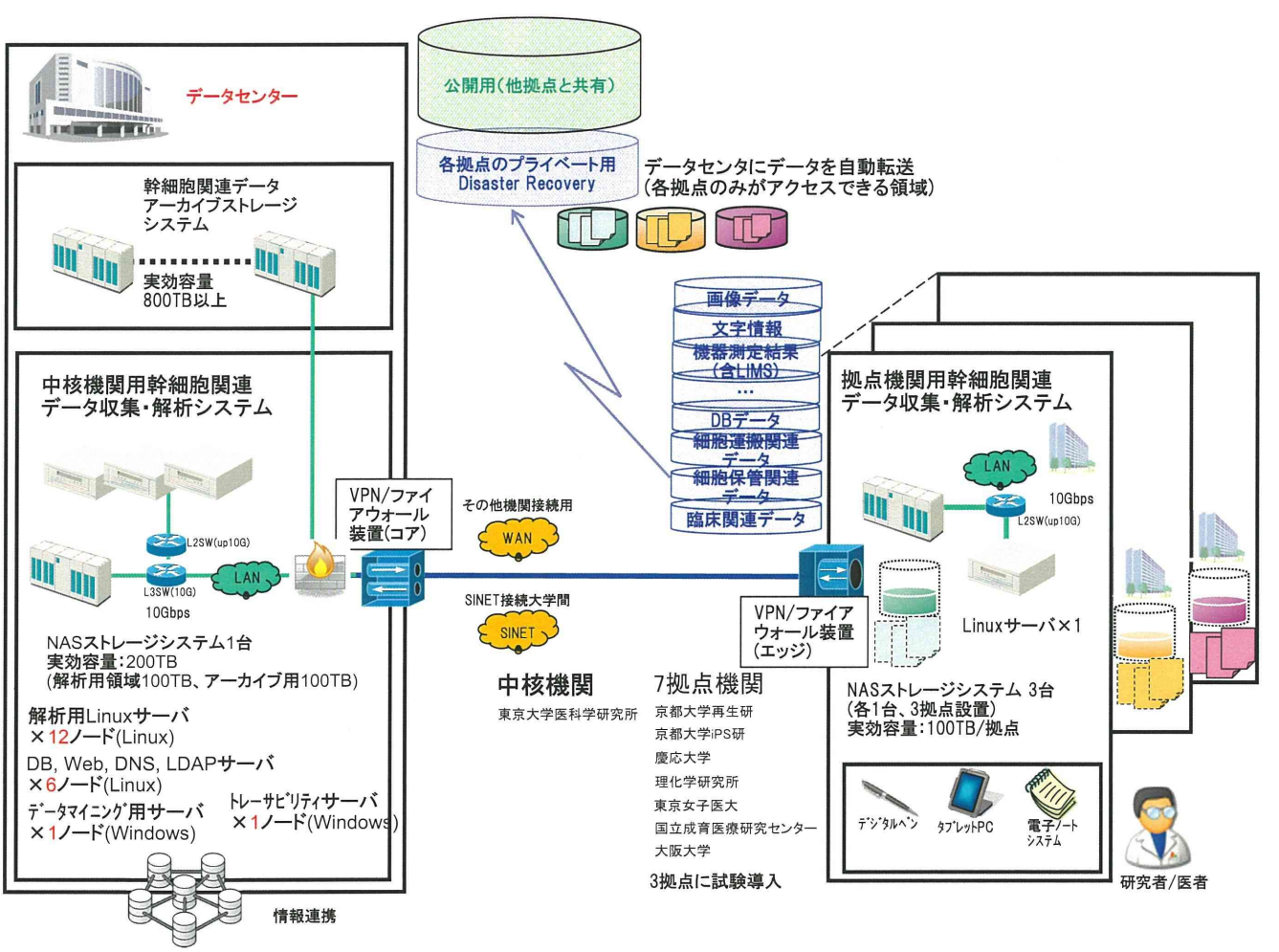
東京大学
THE UNIVERSITY OF TOKYO

報告内容

1. プロジェクトマネジメントオフィスの設置について
2. システム導入の進捗について
3. ソフトウェア開発の進捗について
4. システムの今後の運用について
5. シークエンサー導入について
6. 来年度以降の体制について

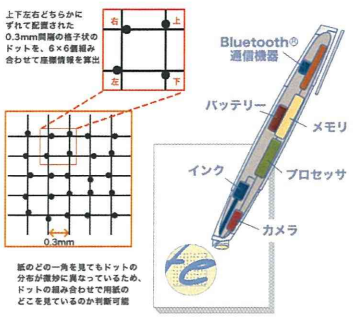
システム導入の進捗

1. 前年度からの繰越予算で「幹細胞関連情報の基盤システム」を導入
2. 今年度はまず3拠点（東京女子医大、国立成育医療センター、大阪大学 (+慶応大学？)）に拠点機関用データ収集・解析システムを導入
3. 日立製作所が受注



実験データの入力のためのソフト&ハード

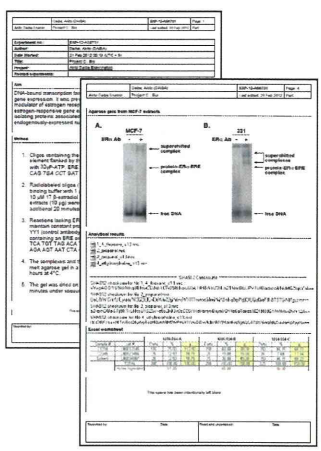
デジタルペン（各拠点5本）

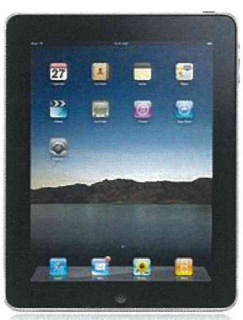


今回は実験ノートを配布
（各拠点 20 冊）

フォーマットが決まっているものは
自動的にDB化なども可能。

アクセルリス　iLabber

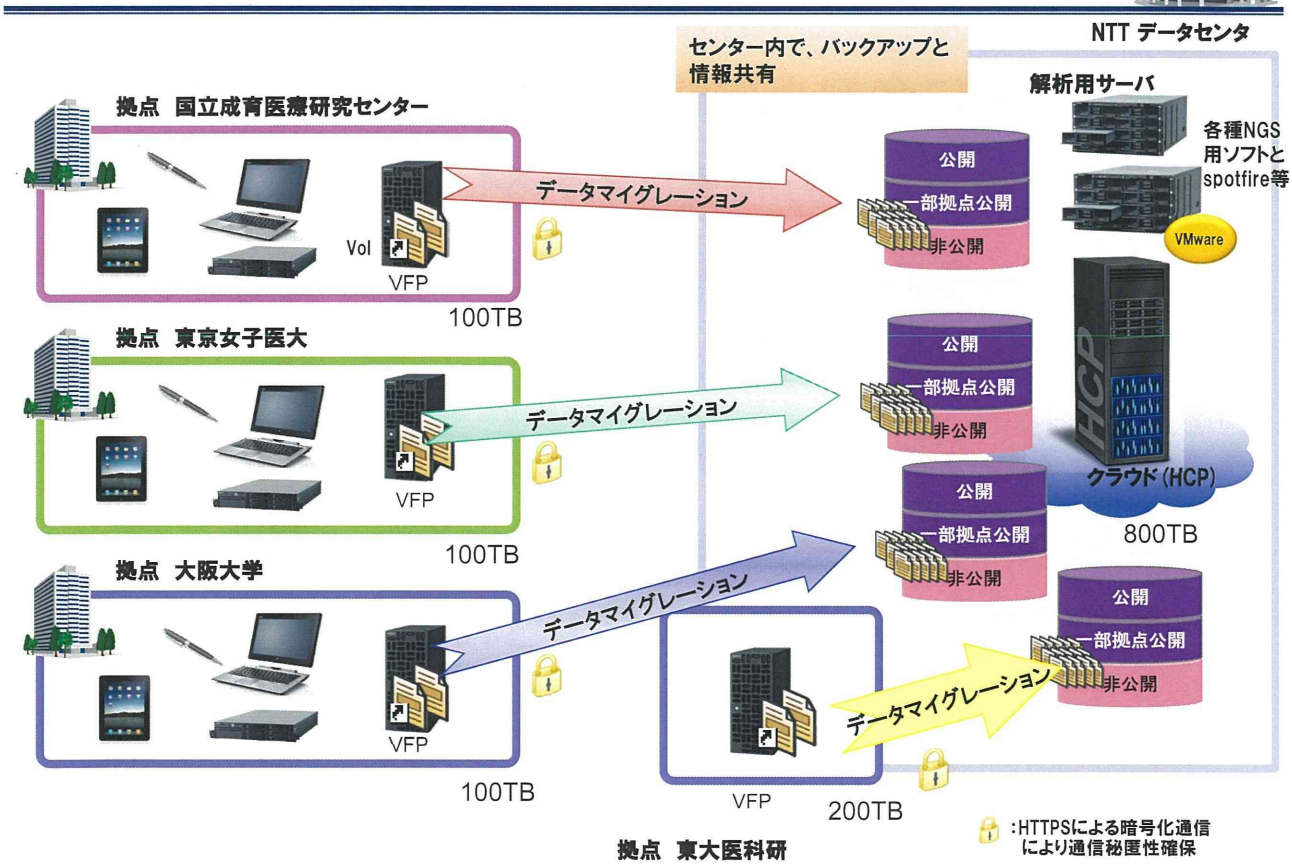




iPad（各拠点5台）

タブレットPC（富士通 STYLISTIC）
各拠点5台

データのアーカイブと情報共有



ソフトウェア開発の進捗

1. 今年度は第一に実験室からの半自動的データ収集システム稼働を目指す
2. 東京女子医大大和研究室の計画（とりあえず今年度はラボ内のみでのデータ閲覧）
    1. 数研究グループによる日常の実験データ入力（デジタルペンなどによる）
    2. クリーンルームにおける作業手順書の電子化
    3. クリーンルームにおける作業状況の画像・音声データのアーカイブ化

システムの今後の運用

1. 来年度中に全拠点機関にシステムを導入
2. 特に臨床データの収集にも力をいれたい
3. 実験データの提供に伴う倫理委員会の認可を得易くするための活動
4. 提供データ利用に関する権利関係のルール化
5. 国として再生医療産業をどう育てるかに関する提言を得て、その方向で役立てられないか