

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Yasuda S, Kanna M, Sakuragi S et al	Local Delivery of single low-dose of C-type natriuretic peptide, an endogenous vascular modulator, inhibits neointimal hyperplasia in a balloon-injured rabbit iliac artery model.	J Cardiovasc Phramcol	39	784-788	2002
Brodbeck W.G., Nakayama Y, Matsuda T et al	Biomaterial surface chemistry dictates adherent monocyte/macrophage cytokine expression in vitro.	Cytokine	18	311-319	2002
Nakayama Y, Nishi S, Ueda-Ishibashi S et al	Fabrication of micropored elastomeric film-covered stents and acute-phase performances.	J Biomed Mater Res	64A	52-61	2003
Brodbeck W.G., Voskerician G., Ziats N.P. et al	In vivo leukocyte cytokine mRNA responses to biomaterials are dependent on surface chemistry.	J Biomed Mater Res	64A	320-329	2003
Nishinaka T, Tatsumi E, Taenaka Y et al	At least thirty-four days of animal continuous perfusion by a newly developed extracorporeal membrane oxygenation system without systemic anticoagulants.	Artif Organs	26	548-551	2002
片桐伸将, 巽 英介, 西中知博 妙中義之, 高野久輝, 酒井一成, 松田智昌, 田中秀典, 柏原 進, 佐藤正喜	血漿漏出を防止する非対称膜構造の中空糸膜を用いた人工肺のガス交換性能の向上新規開発のヘパリンコーティングが人工肺性能に与える影響の評価	膜型肺	25	47-52	2002
西中知博, 巽 英介, 妙中義之, 片桐伸将, 大西裕幸, 押川満雄, 塩谷恭子, 福田敏秀, 築谷朋典, 本間章彦, 武輪能明, 高野久輝, 佐藤正喜, 柏原 進, 田中秀典, 酒井一成, 松田智昌	優れた抗血栓性と長期耐久性を有する心肺補助システムの開発	膜型肺	25	53-57	2002
巽 英介, 築谷朋典, 片桐伸純, 武輪能明, 西中知博, 妙中義之, 高野久輝, 酒井一成, 松田智昌, 八名純三, 小西義昭, 佐藤正喜, 田中秀典	緊急対応性と長期耐久性を有する超小型一体型心肺補助装置の研究開発	膜型肺	25	58-64	2002

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
松田智昌, 酒井一成, 西中知博, 巽 英介, 片桐伸将, 妙中義之, 田中秀典, 柏原 進, 佐藤正喜	優れた抗血栓性と耐久性を有する Platinum Cube NCVCについて.	医工学治療	14	22-24	2002
Endo M, Enosawa S, Ozaki M et al	Artificial mimicking of physiological transport by a membrane co-cultured with two different cells: Hepatic origine HepG2 and renal origine PCTL-MDR.	Artif Organs	26	806-811	2002
Ikeda T, Aoki T, Miyashita T et al	Experimental study of plasma recycling system by off-line bioartificial liver in rats.	Transplant Proc	34	2706-2710	2002
Endo M, Enosawa S, Suzuki S et al	Porcine Liver Transplantation as an Estimation System for Bridge-Use of Bioartificial Liver	Transplant Proc	34	2714-2717	2002
Enosawa S, Miyashita T, Endo M et al	OFF-LINE BIOARTIFICIAL LIVER : A Novel concept of Treatment with BAL and its Potency of Liver Regeneration.	Transplant Proc.	34	2711-2713	2002
Omasa T, Kim K, Hiramatsu S et al	Expression and amplification of glutamine synthetase gene for constructing ammonia-metabolizing cell lines in hybrid bioartificial liver support.	Kluwer Academic Publishers, Dordrecht, The Netherlands		263-267	2002
Omasa T, Enosawa S.	Construction of liver model with genetically engineered human HepG2 cells.	Cytotechnology		In press	2003
大政健史, 絵野沢伸	ストレスバイオテクノロジーは人 工臓器に応用可能か・バイオ人工 肝/腎とめぐる最近の動向と将来	ケミカルエンジニア リング	47	30-34	2002
Menayame, M.F., et al	Characterization and Control of Stimuli-Induced Membrane Fusion of Liposomes in the Presence of Proteins and Stimuli Responsive Polymers,.	Biochem. Eng. J	12	7-19	2002
Menayame, M.F., et al	Evaluation of Interaction between Liposome Membranes Induced by the Stimuli Responsive Polymers and Proteins.	J. Biosci. Bioeng.	93 (5)	498-501	2002

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Menayame, M.F.,et al	刺激誘導型リポソーム膜融合現象 の評価	化学工学論文集	28	481-484	2002
Morita,S. et al	Detection of a Heart Stress Mediated Interaction between Protein and Phospholipid Membrane Using Dielectric Measurement.	J Biosci Bioeng		In press	2003
Omasa T	Gene amplification and its application in cell and tissue engineering.	J Biosci Bioeng	94	600-605	2002
Omasa T, Cheng.Y.G, Mantalaris.A. et al	Molecular cloning and sequencing of the human heme-regulated eukaryotic initiation factor2 alpha (eIF-2 alpha) kinase from bone marrow culture.	DNA Sequence	13	133-137	2002
Tsuruoka S, Ishibashi K, Yamamoto H et al	Functional analysis of ABCA8, anew drug transporter.	Biochem Biophys Res comm.	298	41-45	2002
Jung JY, Saegusa J, Uetsuka K et al	Further comparative study on picryl chloride-induced contact dermatitis in female IQI/Jic and Balb/c mice.	Comparative Medicine		In press	2003
Jung JY, Yasoshima A, Saegusa J et al	Ultrastructural feature of mast cells in picryl chloride (PCL) -induced contact dermatitis in IQI/Jic mice.	Experimental Toxicology and Pathology		In press	2003

(平成15年度)

研究成果の刊行に関する一覧表

書籍

著者氏名	論文タイトル	書籍全体の編集者名	書籍名	出版社名	出版地	出版年	ページ
Sato T, Diedrich A, Sunagawa K	Bionic Baroreflex	Robertson D et al.	PRIMER ON THE AUTONOMIC NERVOUS SYSTEM Second Edition	Elsevier Science	USA	2003	In press
Matsuo M, Ueda K, Ryder K, Ashcroft F.	The sulforylurea receptor: An ABCC transporter that acts as an ion channel regulator.	Holland IB	ABC proteins	Academic Press	Amsterdam	2003	551-575
佐藤隆幸	起立性低血圧の機序と治療	柳澤信夫, 篠原幸人, 岩田誠, 清水輝夫, 寺本 明	Annual Review 神経 2004	中外医学社	東京	2004	301-306
大政健史	抗体医薬の生産技術－動物細胞による物質生産の現状と課題－	植田充美	抗体エンジニアリングの最前線	シーエムシー出版	東京都	2004	66-77
大政健史, 絵野沢伸	肝由来樹立細胞株への機能付加	高木睦, 大政健史	再生医療実用化にむけた生 物工学研究	三恵社	名古屋市	2003	37-39

雑誌

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Uemura K, Sugimachi M, Kawada T, Kamiya A, Jin Y, Kashihara K, Sunagawa K	A Novel Framework of Circulatory Equilibrium.	Am J Physiol (Heart Circ Physiol)		In press	2004
Zhang D, Ando, Yamasaki F, Sato T	Neural reflex hypotension induced by very small dose of hypertonic NaCl solution in anesthetized rats.	Jpn J Physiol		In press	2004
Omasa T, Kishimoto M, Kawase M, Yagi K.	An attempt at decision making in tissue engineering: reactor evaluation using the analytic hierarchy process (AHP).	Biochemical Eng J		In press	2004
Tsuruoka S, Nishiki K, Wakaumi M, Wang N, Yamamoto H, Ando H, Imai M, Fujimura A.	Treatment of digoxin intoxication model by hybrid kidney with hollowfiber module for clinical hemodialysis.	Nephrol Dial Transplant		In press	2004

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Mitchell C, Abreu G, Kohno R.	Combined Pulse Shape and Pulse Position Modulation for High Data Rate Transmissions in UWB Communications	International Journal of Wireless Information Networks		In Press	2004
Munehira Y, Ohnishi T, Kawamoto S, Furuya A, Shitara K, Imamura M, Yokota T, Takeda Si, Amachi T, Matsuo M, Kioka N, Ueda K.	$\alpha$ 1-syntrophin modulates turnover of ABCA1.	J Biol Chem		In press	2004
Suzuki S, Nishimaki-Mogami T, Tamehiro N, Inoue K, Arakawa R, Abe-Dohmae S, Tanaka AR, Ueda K, Yokoyama S.	Verapamil Increases the Apolipoprotein-Mediated Release of Cellular Cholesterol by Induction of ABCA1 Expression via an LXR-Independent Mechanism.	Arterioscler Thromb Vasc Biol		In press	2004
Fujise H, Sasawatari S, Annoura T, Ikeda T, Ueda K.	3,3',4,4',5-pentachlorobiphenyl inhibits drug efflux through P-glycoprotein in KB-3 cells expressing mutant human P-glycoprotein.	J. Biomed. Biotech in press		In press	2004
Kimura Y, Shibasaki S, Morisato K, Ishizuka N, Minakuchi H, Nakanishi K, Matsuo M, Amachi T, Ueda M, Ueda K.	Microanalysis for MDR1 ATPase by high-performance liquid chromatography with a titanium dioxide column.	Anal Biochem		In press	2004
Kimura Y, Matsuo M, Takahashi K, Saeki T, Kioka N, Amachi T, Ueda K.	ATP hydrolysis-dependent multidrug efflux transporter, MDR1/P-glycoprotein.	Current Drug Metabolism		In press	2004
Kamiya A, Michikami D, Shiozawa T, Iwase S, Hayano J, Kawada T, Sunagawa K, Mano T.	Bed rest attenuates sympathetic and pressor responses to isometric exercise in antigravity leg muscles in humans.	Am J Physiol Regul Integr Comp Physiol	286	R844-R850	2004
Li M, Zheng C, Sato T, Kawada T, Sugimachi M, Sunagawa K.	Vagal nerve stimulation markedly improves long-term survival after chronic heart failure in rats.	Circulation	109	120-124	2004
Yamamoto K, Kawada T, Kamiya A, Takaki H, Miyamoto T, Sugimachi M, Sunagawa K.	Muscle mechanoreflex induces the pressor response by resetting the arterial baroreflex neural arc.	Am J Physiol (Heart Circ Physiol)	286	H1382-H1384	2004
Kamiya A, Michikami D, Iwase S, Hayano J, Kawada T, Sugimachi M, Sunagawa K.	Alpha-adrenergic vascular responsiveness to sympathetic nerve activity is intact after head-down bed rest in humans.	Am J Physiol (Regul Integr Comp Physiol)	286	R151-R157	2004

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Takauchi Y, Yamazaki T, Akiyama T, Sunagawa K.	NG-nitro-L-arginine methyl ester-induced norepinephrine release from cardiac sympathetic nerve endings in anesthetized cats.	Neurosci Lett	353	205-208	2004
Abreu G, Ochiai H, Kohno R.	Linear Maximum Likelihood Decoding of Space-Time Block Coded OFDM Systems for Mobile Communications.	IEE Proceedings on Communications		1-15	2004
Abe-Dohmae S, Ikeda Y, Matsuo M, Hayashi M, Okuhira KI, Ueda K, Yokoyama S.	Human ABCA7 supports apolipoprotein-mediated release of cellular cholesterol and phospholipid to generate HDLA.	J Biol Chem	279	604-611	2004
Tatewaki T, Inagaki M, Kawada T, Shishido T, Yanagiya Y, Takaki H, Sato T, Sugimachi M, Sunagawa K.	Biphasic response of action potential duration to sudden sympathetic stimulation in anesthetized cats.	Circ J	67	876-880	2003
Kamiya A, Michikami D, Hayano J, Sunagawa K.	Heat stress modifies human baroreflex function independently of heat-induced hypovolemia.	Jpn J Physiol	53	215-222	2003
Akiyama T, Yamazaki T, Mori H, Sunagawa K.	Inhibition of cholinesterase elicits muscarinic receptor-mediated synaptic transmission in the rat adrenal medulla.	Auton Neurosci	107	65-73	2003
Kashihara K, Takahashi Y, Chatani K, Kawada T, Zheng C, Li M, Sugimachi M, Sunagawa K.	Intravenous angiotensin II does not affect dynamic baroreflex characteristics of the neural or peripheral arc.	Jpn J Physiol	53	135-143	2003
Toyofuku M, Takaki H, Sugimachi M, Kawada T, Goto Y, Sunagawa K.	Reduced oxygen uptake increase to work rate increment ( $\Delta/\Delta$ WR) is predictable by response to constant work rate exercise in patients with chronic heart failure.	Eur J Appl Physiol	90	76-82	2003
Sato T, Kawada T, Inagaki M, Shishido T, Sugimachi M, Sunagawa K.	Dynamics of sympathetic baroreflex control of arterial pressure in rats.	Am J Physiol (Regul Integr Comp Physiol)	285	R262-R270	2003
Aiba T, Shimizu W, Inagaki M, Hidaka I, Tatewaki T, Sunagawa K.	Transmural heterogeneity of the action potential configuration in the feline left ventricle.	Circ J	67	H1158-H1167	2003
Kamiya A, Michikami D, Fu Q, Iwase S, Hayano J, Kawada T, Mano T, Sunagawa K.	Pathophysiology of orthostatic hypotension after bed rest: paradoxical sympathetic withdrawal.	Am J Physiol Heart Circ Physiol	285	449-454	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Kashihara K, Kawada T, Yanagiya Y, Uemura K, Inagaki M, Takaki H, Sugimachi M, Sunagawa K.	Bezold-Jarisch reflex attenuates dynamic gain of baroreflex neural arc.	Am J Physiol Heart Circ Physiol	285	H883-H840	2003
Kitagawa H, Yamazaki T, Akiyama T, Mori H, Sunagawa K.	Effects of moderate hypothermia on norepinephrine release evoked by ouabain, tyramine and cyanide.	J Cardiovasc Pharmacol	41	S111-S114	2003
Tomita T, Takaki H, Hara Y, Sakamaki F, Satoh T, Takagi S, Yasumura Y, Aihara N, Goto Y, Sunagawa K.	Attenuation of hypercapnic carbon dioxide chemosensitivity after postinfarction exercise training: possible contribution to the improvement in exercise hyperventilation.	Heart	89	404-410	2003
Miyamoto T, Kawada T, Takaki H, Inagaki M, Yanagiya Y, Jin Y, Sugimachi M, Sunagawa K.	High plasma norepinephrine attenuates the dynamic heart rate response to vagal stimulation.	Am J Physiol (Heart Circ Physiol)	284	H2412-H2418	2003
Shimizu W, Noda T, Takaki H, Kurita T, Nagaya N, Satomi K, Suyama K, Aihara N, Kamakura S, Sunagawa K, Echigo S, Nakamura K, Ohe T, Towbin JA, Napolitano C, Priori SG.	Epinephrine unmasks latent mutation carriers with LQT1 form of congenital long-QT syndrome.	J Am Coll Cardiol	41	633-642	2003
Kawada T, Uemura K, Kashihara K, Jin Y, Li M, Zheng C, Sugimachi M, Sunagawa K.	Uniformity in dynamic baroreflex regulation of left and right cardiac sympathetic nerve activities.	Am J Physiol (Regul Integr Comp Physiol)	284	R1506-R1512	2003
Kitagawa H, Yamazaki T, Akiyama T, Mori H, Sunagawa K.	Effects of ketamine on exocytotic and non-exocytotic noradrenaline release.	Neurochem Int	42	261-267	2003
Kawada T, Yanagiya Y, Uemura K, Miyamoto T, Zheng C, Li M, Sugimachi M, Sunagawa K.	Input-size dependence of the baroreflex neural arc transfer characteristics.	Am J Physiol Heart Circ Physiol	284	H404-H415	2003
Sakuragi S, Takagi S, Suzuki S, Sakamaki F, Takaki H, Aihara N, Yasumura Y, Goto Y.	Patients with large myocardial infarction gain a greater improvement in exercise capacity after exercise training than those with small to medium infarction.	Clin Cardiol	26	280-286	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Otsuka Y, Takaki H, Okano Y, Satoh T, Aihara N, Matsumoto T, Yasumura Y, Morii I, Goto Y.	Exercise training without ventricular remodeling in patients with moderate to severe left ventricular dysfunction early after acute myocardial infarction.	Int J Cardiol	87	237-244	2003
Zhang D, Ando M, Yamasaki F, Sato T.	Carotid-sinus baroreflex modulation of core and skin temperatures in rats: an open-loop approach.	Jpn J Physiol	53	461-466	2003
Kokubo M, Tanaka S.	Latest topics of radio frequency transceiver circuits.	The 16th Workshop on Circuit and System		111-116	2003
Kokubo M, Shibahara Y, Aoki H, Hwang C.	Low supply voltage and low-power 1-GHz PLL frequency synthesizer for mobile terminals.	IEICE Trans Electron		71-78	2003
Umebayashi K, Morelos-Zaragoza RH, Kohno R.	Method of Non-Data-Aided Carrier Recovery with Modulation Identification.	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences		1-10	2003
Abreu G, Kohno R.	A Modified Dolph-Chebyshev Approach for the Synthesis of Low Sidelobe Beampatterns with Adjustable Beamwidth.	IEEE Transactions on Antennas and Propagation	51	3014-3017	2003
Ishii K, Abreu G, Kohno R.	Beam-Space Time Coding Exploiting the Overlap among Beam patterns.	IEICE Transactions on Fundamentals	E86-A	2501-2509	2003
Sato T, Abreu G, Kohno R.	Beamforming Array Antenna for Ultra Wideband Communications,"2003 International Workshop on Ultra Wideband Systems.	IWUWBS2003			2003
Ishii K, Abreu G, Kohno R.	Turbo-like Space Time Coding for Beamforming Arrays.	2003 IEEE international Symposium on Information Theory(ISIT2003)			2003
Doi K, Mizutani K, Kohno R.	Ultra Wideband Ranging System Using Improved Chirp Waveform.	Radio and Wireless Conference 2003			2003
Taniguchi M, Ochiai H, Kohno R.	FPGA Fault Detection Using Error Correcting Codes for Software Defined Radio.	2003 Software Defined Radio Technical Conference(SDR03)		3-4	2003
Kaji H, Takoh K, Nishizawa M, Matsue T.	Intercellular Ca <sup>2+</sup> Imaging for Micropatterned Cardiac Myocytes.	Biotech. Bioeng.	81	748-751	2003
Takahashi T, Ogata S, Nishizawa M, Matsue T.	A Valveless Switch for Microparticle Sorting with Laminar Flow Streams and Electrophoresis Perpendicular to the Direction of Fluid Stream.	Electrochem. Commun.	5	175-177	2003



発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Hirano Y, Mitsumori Y, Oyamatsu D, Nishizawa M, Matsue T.	Imaging of Immobilized Enzyme Spots by Scanning Chemiluminescence Microscopy with Electrophoretic Injection.	Biosens. Bioelectron.	18	587-590	2003
Oyamatsu D, Kanaya N, Shiku H, Nishizawa M, Matsue T.	Electrochemical / Photochemical Formation of Enzyme Patterns on Glass Substrates using a Scanning Electrochemical / Confocal Microscope.	Sens. Actuat. B	91	199-204	2003
Kaya T, Nagamine K, Oyamatsu D, Nishizawa M, Matsue T.	A microbial chip for glucose sensing studied with scanning electrochemical microscopy (SECM).	Electrochemistry	71	436-438	2003
Oyamatsu D, Kanaya N, Hirano Y, Nishizawa M, Matsue T.	Area-selective immobilization of multi enzymes by using the reductive desorption of self-assembled monolayer.	Electrochemistry	71	439-441	2003
Torisawa Y, Kaya T, Takii Y, Oyamatsu D, Nishizawa M, Matsue T.	Scanning Electrochemical Microscopy (SECM)-Based Drug Sensitivity Test for Cell Culture Integrated in Silicon Microstructures.	Anal. Chem.	75	2154-2158	2003
A. Glidle, T. Yasukawa, C. S. Hadyoon, N. Anicet, T. Matsue, M. Nomura, J. M. Cooper	Analysis of Protein Adsorption and Binding at Biosensor Polymer Interfaces Using X-ray Photon Spectroscopy and Scanning Electrochemical Microscopy.	Anal. Chem.	75	2559-2570	2003
Kaya T, Torisawa Y, Oyamatsu D, Nishizawa M, Matsue T.	Monitoring the Cellular Activity by Scanning Electrochemical Microscopy (SECM) of a cultured single cell. A comparison with fluorescence viability monitoring.	Biosens. Bioelectron.	18	1379-1383	2003
Takii Y, Takoh K, Nishizawa M, Matsue T.	Characterization of Local Respiratory Activity of PC12 Neuronal Cell by Scanning Electrochemical Microscopy.	Electrochim. Acta.	48	3381-3385	2003
Oyamatsu D, Hirano Y, Kanaya N, Mase Y, Nishizawa M, Matsue T.	Imaging of Enzyme Activity by Scanning Electrochemical Microscope Equipped with a Feedback Control for Substrate-Probe Distance.	Bioelectrochemistry	60	115-121	2003
Kaji H, Takii Y, Nishizawa M, Matsue T.	Pharmacological characterization of micropatterned cardiac myocytes.	Biomaterials	24	4239-4244	2003
Zhou H, Kasai S, Noda S, Ohya H, Shiku H, Matsue T.	Characterization of Peroxidase Activity of Single Algae Protoplasts by Scanning Electrochemical Microscopy.	Bull. Chem. Soc. Jp.	76	1757-1762	2003
Kaji H, Nishizawa M, Matsue T.	Localized chemical stimulation to micropatterned cells using multiple laminar fluid flows.	Lab on a Chip	3	208-211	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Masuda T, Nakayama Y.	Development of a water-soluble Matrixmetalloproteinase inhibitor as an intra-arterial infusion drug for prevention of restenosis after angioplasty.	J Med Chem	46	3497-3501	2003
Nakayama Y, Nishi S, Ueda-Ishibashi H, Matsuda T.	Fabrication of micropored elastomeric film-covered stents and acute-phase performances.	J Biomed Mater Res	64A	52-61	2003
Nakayama Y, Nishi S, Ishibashi-Ueda H.	Fabrication of drug-eluting coverstents with micropores and differential coating of heparin and FK506.	Cardiovasc Rad Med	4	77-82	2003
Nishi S, Nakayama Y, Ishibashi-Ueda H, Matsuda T.	Embolization of experimental aneurysms using a heparin-loaded stent graft with micropores.	Cardiovasc Rad Med	4	29-33	2003
Nishi S, Nakayama Y, Ueda-Ishibashi H, Matsuda T.	Occlusion of experimental aneurysms with heparin-loaded, microporous stent grafts.	Neurosurgery	53	1397-1405	2003
Nakayama Y, Matsuda T.	Photo-control of the interaction between endothelial cells and photo-cation generatable water-soluble polymers.	J Control Release	89	213-224	2003
Nakayama Y, Furumoto A, Kidoaki S, Matsuda T.	Photocontrol of cell adhesion and proliferation by a photoinduced cationic polymer surface.	Photochem Photobiol	77	480-486	2003
Sonoda H, Takamizawa K, Nakayama Y, Yasui H, Matsuda T.	Coaxial double-tubula compliant arterialgraftprosthesis: time-dependentmorphogenesisand Compliancechanges after implantation.	J Biomed Mater Res	65A	170-181	2003
Brodbeck WG, Ziats GNP, Nakayama Y, Matsuda T, Anderson JM.	In vivo leukocyte cytokine mRNA responses to biomaterials are dependent on surface chemistry.	J Biomed Mater Res	64A	320-329	2003s
Matsuda T, Nagase J, Ghoda A, Hirano Y, Kidoaki S, Nakayama Y.	Phosphorylcholine-endocapped oligomer and block co-oligomer and surface biological reactivity.	Biomaterials	24	4517-4527	2003
Li G, Sajiki T, Nakayama Y, Fukui M, Matsuda T.	Novel visible-light-induced tissue adhesive composed of multiply strene-derivatized gelatin and poly(ethyelene glycol) diacrylate.	J Biomed Mater Res Part B: Appl Biomater	66B	439-446	2003
Kuboki Y, Kikuchi M, Takita H, Yoshimoto R, Nakayama Y, Matsuda T, Ikada Y.	Laser-perforated membranous biomaterials induced pore size-dependent bone induction when used as a new carrier.	Connect Tissue Res	44	318-325	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Miyashita T, Enosawa S, Tanaka H, Tamura A, Amemiya H, Aoki T, Koyanagi Y, Suzuki S.	Standardization of ischemic hepatic failure in pigs as a model for bioartificial liver assessment.	Surg Today	33	743-750	2003
Haga S, Terui K, Zhang HQ, Enosawa S, Ogawa W, Inoue H, Okuyama T, Takeda K, Akira S, Ogino T, Irani K, Ozaki M.	Stat3 protects against Fas-induced liver injury by redox-dependent and -independent mechanisms.	J Clin Invest	112	989-998	2003
Jung H-S, Umakoshi H, Son S-Y, Shimanouchi T, Kuboi R.	Characterization of the surface properties of chitosanase under heat stress condition using aqueous two-phase systems and an immobilized-liposome sensor system.	Solv Extr Res Dev Japan	10	123-132	2003
Yoshimoto N, Hashimoto T, Matundu MF, Umakoshi H, Kuboi R.	Artificial chaperone-assisted refolding of bovine carbonic anhydrase using molecular assemblies of stimuli-responsive polymers.	Biomacromolecules	4	1530-1538	2003
Jung H-S, Shimanouchi T, Morita S, Kuboi R.	Novel fabrication of conducting polymers contained micro-array gas sensitive films using a micromanipulation method.	Electroanalysis	15	1453-1459	2003
Ikeda Y, Abe-Dohmae S, Munehira Y, Aoki R, Kawamoto S, Furuya A, Shitara K, Amachi T, Kioka N, Matsuo M, Yokoyama S, Ueda K.	Post-transcriptional regulation of human ABCA7 and its function for the apoA-I-dependent lipid release.	Biochem Biophys Res Commun	311	313-318	2003
Tanaka AR, Abe-Dohmae S, Ohnishi T, Aoki R, Morinaga G, Okuhira KI, Ikeda Y, Kano F, Matsuo M, Kioka N, Amachi T, Murata M, Yokoyama S, Ueda K.	Effects of mutations of ABCA1 in the first extracellular domain on subcellular trafficking and ATP binding/hydrolysis.	J Biol Chem	278	8815-8819	2003
Shitan N., Bazin I, Dan K, Obata K, Kigawa K, Ueda K, Sato F, Forestier C, Yazaki K.	Involvement of CjMDR1, a plant MDR-type ABC protein, in alkaloid transport in <i>Coptis japonica</i> .	Proc Natl Acad Sci USA	100	751-756	2003
Sugimoto Y, Tsukahara S, Imai Y, Sugimoto Y, Ueda K, Tsuruo T.	Reversal of breast cancer resistance protein-mediated drug resistance by estrogen antagonists and agonists.	Mol Cancer Ther	2	105-112	2003
Terasaka K, Shitan N, Sato F, Maniwa F, Ueda K, Yazaki K.	Application of vanadate-induced nucleotide trapping to plant cells for detection of ABC proteins.	Plant Cell Physiol	44	198-200	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Nishiki K, Tsuruoka S, Kawaguchi A, Sugimoto K, Imai M, Fujimura A.	Inhibition of Rho-kinase reduces Na-H exchanger activity and natriuresis in rat.	J Pharmacol Exp Ther	304	3-8	2003
Nishiki K, Tsuruoka S, Wakaumi M, Yamamoto H, Koyama A, Fujimura A.	Dosing-time dependent variation in the hypocalcemic effect of calcitonin in rat.	Eur J Pharmacol	460	171-175	2003
Tsuruoka S., Schwartz GJ, Wakaumi M, Nishiki K., Yamamoto H, Purkerson JM, Fujimura A.	Nitric oxide production modulates cyclosporine A-induced distal renal tubular acidosis in the rat.	J Pharmacol Exp Ther	305	840-845	2003
Tsuruoka S, Wakaumi M, Sugimoto K, Saito T, Fujimura A.	Chronotherapy of high dose active vitamin D3 in hemodialysis patients with secondary hyperparathyroidism -repeated dosing study-.	Br J Clin Pharmacol.	55	531-537	2003
Matsumoto N, Tsuruoka S, Iwamoto T, Tomich JM, Imai M, Suzuki M.	Expression of an artificial Cl channel in micro-perfused renal proximal tubules.	J.Membr Biol	193	195-200	2003
Jung JY, Yasoshima A, Saegusa J, Nakayama Y, Doi K.	Ultrastructural features of mast cells in picrylchloride (PCL)-induced contact dermatitis in IQI/Jic mice.	Exp Toxicol Pathol	54	265-271	2003
Konno A, Takada K, Saegusa J, Takiguchi M.	Presence of B7-2+ dendritic cells and expression of Th1 cytokines in the early development of sialodacryoadenitis in the IQI/Jic mouse model of primary Sjogren's syndrome.	Autoimmunity	36	247-254	2003
神谷厚範, 杉町勝, 砂川賢二	ナノテクノロジー-医療- 21世紀の医療革命-	からだの科学	231	2-6	2003
川田徹, 宮本忠吉, 砂川賢二	自律神経による心拍調節のシステム解析と逆問題	循環制御	24	220-225	2003
佐藤正知, アブレウジュゼッペ, 河野隆二	UWBのための各要素アンテナから周波数分布が異なる信号を送信するビームフォーミング法	電子情報通学会論文誌	J86-A	1302-1309	2003
河野隆二	Ultra Wideband(UWB)無線技術の研究開発に関する産官学連携と無線PANの標準化への貢献	電子情報通信学会論文誌	J86-A	1274-1283	2003
池本健太郎, 河野隆二	超広帯域ワイヤレス通信環境下におけるインパルス無線用プレート波形の相関値を用いたシステムセンシングに関する一検討	電子情報通信学会技術報告書	SR03-1	1-7	2003
山本剛裕, 池本健太郎, 河野隆二	FBGを用いたUWB用パルス生成の検討	電子情報通信学会ソサイエティ大会	B-10-111		2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
石井光治、河野隆二	時間・空間・周波数領域における連接符号化に関する検討	第26回情報理論とその応用シンポジウム(SITA2003)		485-488	2003
武藤康治、河野隆二	非同期UWB-MBOKシステムにおけるPRFを利用した他局間干渉低減方式の一検討	第26回情報理論とその応用シンポジウム(SITA2003)		711-714	2003
奥池和幸、梅林健太、河野隆二	ソフトウェア無線のための自動技術基準適合証明システムを利用したレギュレトリーフレームワークについての一検討	第26回情報理論とその応用シンポジウム(SITA2003)		17-20	2003
西 正吾、中山泰秀、植田初江、松田武久	高機能ステントグラフトによる実験的動脈瘤の閉塞-その有用性と展望-	日本血管内治療学会誌	4	6-9	2003
押川満雄、片桐伸将、妙中義之、武輪能明、西中知博、巽 英介、大西裕幸、塩谷恭子、福田敏秀、本間章彦、築谷朋典、高野久輝、舟久保昭夫、福井康裕	外部灌流型人工肺のポートレイアウトの差に対するCFD(Computational Fluid Dynamics)および動物実験による性能比較による検討	膜型肺	26	38-43	2003
高野久輝、巽 英介、武輪能明	現代医療の最前線ー人工臓器とメディカル・エンジニアリングの進歩ー人工肺開発の現状と将来	最新医学	58	1341-1349	2003
巽 英介	未来型人工肺開発の現況と展望	膜型肺	26	52-58	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
片桐伸将、舟久保昭夫、築谷朋典、巽 英介、西中知博、武輪能明、妙中義之、福井康裕、高野久輝	外部灌流中空系膜型人工肺の酸素・炭酸ガス移動現象の数値流体解析による検討	膜型肺	26	30-37	2003
絵野沢 伸	肝臓の中に腎臓を作る-透析アミロイドーシス克服に向けた再生医療からのアプローチ-	腎と透析	55	631-635	2003
若林 恵、絵野沢 伸	小児腎の生理学的特徴と移植医療におけるドナーソースとしての可能性.	Organ Biol	10	189-198	2003
絵野沢 伸	血液浄化法におけるバイオの力の応用可能性-OFF-LINE人工肝による自己肝再生促進-	ICUとCCU	27	S9-10	2003
尾崎倫孝、絵野沢 伸、鈴木盛一	肝臓を対象とした再生医療	日本臨床 3月号特集「再生医療」	61	498-503	2003

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
久保井亮一, 馬越大, 島内寿徳, 森田誠一	固定化リポソームクロマトグラフィーによる生理活性物質の分離・分析.	ぶんせき	11	636-643	2003
大政健史	バイオ人工肝のメカニズム-設計基準と評価-	細胞	35	463-467	2003
鶴岡秀一	ハイブリッド型人工腎臓の試み	腎と透析	54	653-656	2003
鶴岡秀一, 川口敦弘, 斎藤鉄男, 藤村昭夫	ビタミンE固定化ダイアライザー反復使用による末梢血好中球機能の変化	Vitamembrane	3	10-14	2003
鶴岡秀一, 若海美智, 山本尚史, 安藤 仁	ハイブリッド型人工腎臓	日内会誌	92	2433-2438	2003

(平成16年度)

## 研究成果の刊行に関する一覧表

## 書籍

著者氏名	論文タイトル	書籍全体の編集者名	書籍名	出版社名	出版地	出版年	ページ
大政健史	ETG2003 と米国再生医療・ベンチャー報告/細胞用マイクロチップの現状	酒井康行、大政健史	「バイオミメティック組織デバイス - 開発の現状と将来展望 -」	三恵社	名古屋市	2004	8-22, 36-67
上村和紀, 杉町 勝	左心室容積関係からみた心機能の評価	松崎益徳, 本郷実	新・心臓病診療プラクティス3 心機能を識る.	文光堂	東京都	2004	194-203

## 雑誌

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Uemura K, Kawada T, Kamiya A, Aiba T, Hidaka I, Sunagawa K, Sugimachi M.	Prediction of circulatory equilibrium in response to changes in stressed blood volume.	Am J Physiol Heart Circ Physiol		in press	2005
Kashihara K, Kawada T, Li M, Sugimachi M, Sunagawa K.	Bezold-Jarisch Reflex Blunts Arterial Baroreflex via the Shift of Neural Arc toward Lower Sympathetic Nerve Activity.	Jpn J Physiol	54	395-404	2004
Miyamoto T, Inagaki M, Takaki H, Kawada T, Yanagiya Y, Sugimachi M, Sunagawa K.	Integrated characterization of the human chemoreflex system controlling ventilation, using an equilibrium diagram.	Eur J Appl Physiol	93	340-346	2004
Uemura K, Kawada T, Sugimachi M, Zheng C, Kashihara K, Sato T, Sunagawa K.	A self-calibrating telemetry system for measurement of ventricular pressure-volume relations in conscious, freely moving rats.	Am J Physiol Heart Circ Physiol	287	H2906-H2913	2004
Kashihara K, Kawada T, Uemura K, Sugimachi M, Sunagawa K.	Adaptive predictive control of arterial blood pressure based on a neural network during acute hypotension.	Ann Biomed Eng	32	1365-1383	2004
Sugimachi M, Okamoto H, Hoka S, Sunagawa K.	Faster oscillometric manometry does not sacrifice the accuracy of blood pressure determination.	Blood Press Monit	9	135-141	2004
Yanagiya Y, Sato T, Kawada T, Inagaki M, Tatewaki T, Zheng C, Kamiya A, Takaki H, Sugimachi M, Sunagawa K.	Bionic epidural stimulation restores arterial pressure regulation during orthostasis.	J Appl Physiol	97	984-990	2004
Miyamoto T, Kawada T, Yanagiya Y, Inagaki M, Takaki H, Sugimachi M, Sunagawa K.	Cardiac sympathetic nerve stimulation does not attenuate dynamic vagal control of heart rate via alpha-adrenergic mechanism.	Am J Physiol Heart Circ Physiol	287	H860-H865	2004

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Kawada T, Uemura K, Kashihara K, Kamiya A, Sugimachi M, Sunagawa K.	A derivative-sigmoidal model reproduces operating point-dependent baroreflex neural arc transfer characteristics.	Am J Physiol Heart Circ Physiol	286	H2272-H2279	2004
Kawada T, Miyamoto T, Uemura K, Kashihara K, Kamiya A, Sugimachi M, Sunagawa K.	Effects of neuronal norepinephrine uptake blockade on baroreflex neural and peripheral arc transfer characteristics.	Am J Physiol Regul Integr Comp Physiol	286	R1110-R1120	2004
Uemura K, Sugimachi M, Kawada T, Kamiya A, Jin Y, Kashihara K, Sunagawa K.	A novel framework of circulatory equilibrium.	Am J Physiol Heart Circ Physiol	286	H2376-H2385	2004
Yamamoto K, Kawada T, Kamiya A, Takaki H, Miyamoto T, Sugimachi M, Sunagawa K.	Muscle mechanoreflex induces the pressor response by resetting the arterial baroreflex neural arc	Am J Physiol Heart Circ Physiol	286	H1382-1388	2004
Kakinuma Y, Ando M, Kuwabara M, Katara RG, Okudela K, Kobayashi M, Sato T.	Acetylcholine from vagal stimulation protects cardiomyocytes against ischemia and hypoxia involving additive nonhypoxic induction of HIF-1 $\alpha$ .	FEBS Lett		in press	2005
Kudo Y, Kakinuma Y, Mori Y, Morimoto N, Karashima T, Furihata M, Sato T, Shuin T, Sugiura T.	HIF-1 $\alpha$ is involved in the attenuation of experimentally induced rat glomerulonephritis.	Nephron Exp Nephrol		in press	2005
Zhang D, Ando M, Yamasaki F, Sato T.	Neural reflex hypotension induced by very small dose of hypertonic NaCl solution in anesthetized rats.	Jpn J Physiol		in press	2005
Kakinuma Y, Zhang Y, Ando M, Sugiura T, Sato T	Effect of electrical modification of cardiomyocytes on transcriptional activity through 5'AMP-activated protein kinase	J Cardiovasc Pharmacol	44	S435-S438	2004
Kokubo M, Shida M, Oshima T, Shibahara Y, Matsuura T, Kawai K, Endo T, Osaki K, Sonoda H, Yamamoto K, Matsuoka M, Kobayashi T, Hemmi T, Kudoh J, Miyagawa H, Utsunomiya H, Ezumi Y, Takayasu K, Suzuki J, Aizawa S, Motoki M, Abe Y, Kurosawa T, Ookawara S.	A small-chip-area transceiver IC for Bluetooth featuring a digital channel-selection filter.	IEICE Trans Electron	E87-C	878-887	2004
Kokubo M, Oshima T, Yamamoto K, Takayasu K, Ezumi Y, Aizawa S,	A GFSK transmitter architecture for a bluetooth RF-IC,featuring a variable-loop-bandwidth phase-locked loop modulator.	IEICE Trans Electron	E88-C	385-394	2005



発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Kimura Y, Hirooka Y, Sagara R, Ito K, Kishi T, Shimokawa H, Takeshita A, Sunagawa K.	Overexpression of inducible nitric oxide synthase in rostral ventrolateral medulla causes hypertension and sympathoexcitation via an increase in oxidative stress.	Circ Res	96	252-260	2004
Tahara N, Takaki H, Taguchi A, Suyama K, Kurita T, Shimizu W, Miyazaki S, Kawada T, Sunagawa K.	Pronounced HR variability after exercise in inferior ischemia: Evidence that the cardioinhibitory vagal reflex is invoked by exercise-induced inferior ischemia.	Am J Physiol Heart Circ Physiol	288	H1179-1185	2004
Zhao Q, Egashira K, Hiasa KI, Ishibashi M, Inoue S, Ohtani K, Tan C, Shibuya M, Takeshita A, Sunagawa K	Essential role of vascular endothelial growth factor and Flt-1 signals in neointimal formation after periadventitial injury.	Arterioscler Thromb Vasc Biol	24	2284-2289	2004
Nishida T, Shimokawa H, Oi K, Tatewaki H, Uwatoku T, Abe K, Matsumoto Y, Kajihara N, Eto M, Matsuda T, Yasui H, Takeshita A, Sunagawa K.	Extracorporeal cardiac shock wave therapy markedly ameliorates ischemia-induced myocardial dysfunction in pigs in vivo.	Circulation	110	3055-3061	2004
Kurita R, Tabei H, Iwasaki Y, Hayashi K, Sunagawa K, Niwa O.	Biocompatible glucose sensor prepared by modifying protein and vinylferrocene monomer composite membrane.	Biosens Bioelectron	20	518-5 23	2004
Ohtani K, Egashira K, Hiasa K, Zhao Q, Kitamoto S, Ishibashi M, Usui M, Inoue S, Yonemitsu Y, Sueishi K, Sata M, Shibuya M, Sunagawa K	Blockade of vascular endothelial growth factor suppresses experimental restenosis after intraluminal injury by inhibiting recruitment of monocyte lineage cells	Circulation	110	2444-2452	2004
Sakuragi S, Takaki H, Taguchi A, Suyama K, Kurita T, Shimizu W, Kawada T, Ishida Y, Ohe T, Sunagawa K.	Diagnostic value of the recovery time-course of st slope on exercise ECG in discriminating false-from true-positive ST-segment depressions.	Circ J	68	915-922	2004
Ito K, Hirooka Y, Sagara Y, Kimura Y, Kaibuchi K, Shimokawa H, Takeshita A, Sunagawa K.	Inhibition of Rho-kinase in the brainstem augments baroreflex control of heart rate in rats.	Hypertension	44	478-83	2004
Ishibashi M, Egashira K, Zhao Q, Hiasa K, Ohtani K, Ihara Y, Charo IF, Kura S, Tsuzuki T, Takeshita A, Sunagawa K.	Bone marrow-derived monocyte chemoattractant protein-1 receptor CCR2 is critical in angiotensin II-induced acceleration of atherosclerosis and aneurysm formation in hypercholesterolemic mice.	Arterioscler Thromb Vasc Biol	24	e174-e178	2004

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Aiba T, Shimizu W, Inagaki M, Satomi K, Taguchi A, Kurita T, Suyama K, Aihara N, Sunagawa K, Kamakura S.	Excessive increase in QT interval and dispersion of repolarization predict recurrent ventricular tachyarrhythmia after amiodarone.	Pacing Clin Electrophysiol	27	901-909	2004
Akiyama T, Yamazaki T, Mori H, Sunagawa K.	Simultaneous monitoring of acetylcholine and catecholamine release in the in vivo rat adrenal medulla.	Neurochem Int	44	97-503	2004
Akiyama T, Yamazaki T, Mori H, Sunagawa K.	Effects of Ca <sup>2+</sup> channel antagonists on acetylcholine and catecholamine releases in the in vivo rat adrenal medulla.	Am J Physiol Regul Integr Comp Physiol	287	R161- R166	2004
Nishimura S, Yasuda S, Katoh M, Yamada KP, Yamashita H, Saeki Y, Sunagawa K, Nagai R, Hisada T, Sugiura S.	Single cell mechanics of rat cardiomyocytes under isometric, unloaded, and physiologically loaded conditions.	Am J Physiol Heart Circ Physiol	287	H196- H202	2004
Kamiya A, Michikami D, Shiozawa T, Iwase S, Hayano J, Kawada T, Sunagawa K, Mano T.	Bed rest attenuates sympathetic and pressor responses to isometric exercise in antigravity leg muscles in humans.	Am J Physiol Regul Integr Comp Physiol	286	R844- R850	2004
Kenichi Takizawa and Ryuji Kohno	Combined Iterative Demapping and Decoding for Coded MBOK DS-UWB Systems	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences	vol.E 87-A, No.1 0	pp.2621-2629	2004
Yuko Rikuta and Ryuji Kohno	Characteristics of Dual Frequency Planar Monopole Antenna for UWB System	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences	vol.E 87-A, No.1 0	pp.2607-2614	2004
Giuseppe Thadeu Freitas de Abreu, Hideki Ochiai, Ryuji Kohno	Linear Maximum Likelihood Decoding of Space-Time Block Coded OFDM Systems for Mobile Communications	IEE Proceedings on Communications - Special Issue on WLAN Systems and Internetworking	Vol. 151, No. 5	pp.447- 459	2004
Craig Mitchell, Giuseppe Abreu and Ryuji Kohno	Adaptive RAKE Receivers with Subspace -based Hadamard-Hermite Template Design for UWB Communications	IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences - Special Issue on UWB			2005

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Koji ISHIBASHI, Hideki OCHIAI, and R. KOHNO	On the Performance of Bit-interleaved Coded DAPSK over Rayleigh Fading Channels	IEEE International Conference on Communications 2004 (ICC' 04)			2004
Alex CARTAGENA GORDILLO, Giuseppe Thadeu FREITAS DE ABREU and Ryuji KOHNO	Band-Limited Frequency Efficient Orthogonal Pulse Shape Modulation for UWB Communications	The 2004 IEEE International Symposium on Spread Spectrum Techniques and Applications(ISSST A 2004)		pp.498-502	2004
Giuseppe Thadeu Freitas de Abreu, Takashi Uefuji and Ryuji Kohno	Parameter Estimation of UWB-IR Signals Using Array Antennas with Hermite- Hadamard Orthogonal Filters	The Seventh International Symposium on Wireless Personal Multimedia Communications 2004(WPMC2004)		pp.v2-288-292	2004
Kentaro Ikemoto and Ryuji Kohno	Maximum Likelihood Estimation of Trellis Encoder and Modulation Transition Utilizing HMM for Adaptive Channel Coding Technique	International Symposium on Information Theory and its Applications(ISITA 2004)		pp.1244-1249	2004
Kouji Ishii, Ryuji Kohno	Serial Concatenated Coding Schemes over the Space-Time-Frequency Domain for OFDM transmission	International Symposium on Information Theory and its Applications(ISITA 2004)		pp.856-861	2004
F. Sato, M. Togo, T. Abe, T. Ohashi, I. M. Kamrul, T. Matsue, J. Kosuge, N. Fukasaku, M. Nishizawa	Miniaturized Enzyme-Based Glucose / O <sub>2</sub> Fuel Cell Using Vitamin K3 as Electron Mediator	Technical Digest, Power MEMS 2004		158-161	2004
Mizuno T, Tatsumi E, Nishinaka T, Katagiri N, Oshikawa M, Naito H, Shirakawa Y, Tsukiya T, Homma A, Takewa Y, Takano H, Kitamura S, Taenaka Y	Observation of alveolar fibrosis in the goat following up-to-five-months venoarterial bypass using an extracorporeal membrane oxygenation	JAO		in press	2004
Omasa T, Enosawa S	Construction of liver model with genetically engineered human HepG2 cells.	Animal Cell Technology: Basic & Applied Aspects	13	25-29	2004
Enosawa S, Takahashi N, Amemiya H, Motomiya Y.	Transplantation of nonvascularized kidney tissue fragments into the rat liver with the aim of preserving renal function.	Cell Transplantation	13	413-419	2004
Asada M, Ohmi K, Delia D, Enosawa S, Suzuki S, You A, Suzuki H, Mizutani S.	Brap2 functions as a cytoplasmic retention protein for p21 during monocyte differentiation.	Mol Cell Biol	24	8236-8243	2004

発表者氏名	論文タイトル名	発表誌名	巻号	ページ	出版年
Omasa T, Yamanaka M, Tanimura N, Katakura Y, Kishimoto M, Suga K, Enosawa S.	Expression and amplification of glutamine synthetase gene endows HepG2 cells with ammonia-metabolizing activity for bioartificial liver support system.	Enzyme Microbial Technology	35	519-524	2004
Kuboi R, Shimanouchi T, Yoshimoto M, Umakoshi H.	Detection of protein conformation under stress conditions using liposomes as sensor materials.	Sensors and Materials	16(5)	241-254	2004
Sasaki M, Miyagawa K, Shimanouchi T, Kuboi R.	Monitoring of Protein Dynamics on Membrane Under Stress Condition Using Dielectric Dispersion Analysis.	Proc. PCCChE	2004	3C07	2004
Omasa T, Kishimoto M, Kawase M, Yagi K.	An attempt at decision making in tissue engineering: reactor evaluation using the analytic hierarchy process (AHP).	Biochemical Eng J	20	173-179	2004
Kobayashi M, Sugihara N, Ise H, Omasa T, Negishi N.	Real time monitoring of drug metabolic enzyme response inside human hepatoma GS-3A4-HepG2 cells by means of electrochemical impedance measurement.	Polymers for Advanced Technologies	15	232-243	2004
Omasa T, Kajita M, Yoshikawa T, Katakura Y, Kishimoto M, Ohtake H.	Rapid construction of gene-amplified CHO cell line by gene targeting.	Proceedings for the 10th Asian Pacific Confederation of Chemical Engineering		1-6	2004
Munehira Y, Ohnishi T, Kawamoto S, Furuya A, Shitara K, Imamura M, Yokota T, Takeda Si, Amachi T, Matsuo M, Kioka N, Ueda K.	$\alpha$ 1-syntrophin modulates turnover of ABCA1.	J Biol Chem	279	15091-15095	2004
Suzuki S, Nishimaki-Mogami T, Tamehiro N, Inoue K, Arakawa R, Abe-Dohmae S, Tanaka AR, Ueda K, Yokoyama S.	Verapamil increases the apolipoprotein-mediated release of cellular cholesterol by induction of ABCA1 expression via an LXR-independent mechanism.	Arterioscler Thromb Vasc Biol in press	24	519-525	2004
Fujise H, Sasawatari S, Annoura T, Ikeda T, Ueda K.	3,3',4,4',5-pentachlorobiphenyl inhibits drug efflux through P-glycoprotein in KB-3 cells expressing mutant human P-glycoprotein.	J Biomed. Biotech	2004: 3	137-142	2004
Kimura Y, Shibasaki S, Morisato K, Ishizuka N, Minakuchi H, Nakanishi K, Matsuo M, Amachi T, Ueda M, Ueda K.	Microanalysis for MDR1 ATPase by high-performance liquid chromatography with a titanium dioxide column.	Anal Biochem	326	262-266	2004
Kimura Y, Matsuo M, Takahashi K, Saeki T, Kioka N, Amachi T, Ueda K.	ATP hydrolysis-dependent multidrug efflux transporter, MDR1/P-glycoprotein.	Current Drug Metabolism	5(1)	1-10	2004