

K. Amemiya, H. Takahashi, M. Nakazawa, H. Shimizu, T. Majima, Y. Nakagawa, N. Yasuda, M. Yamamoto, T. Kageji, M. Nakaichi, T. Hasegawa, T. Kobayashi, Y. Sakurai and K. Ogura	Soft X-ray Imaging using CR-39 plastics with AFM readout	Nuclear Instruments and Methods in Physics Research B	187	361-366	2002
Toshikazu Majima, Tomie Toshihisa and Hideaki Shimizu	Comparative studies of x-ray images and fluorescence images of the same specimens	Journal de Physique IV, Proc. X-ray Microscopy	104	157-160	2003
Takashi Funatsu, Tadayoshi Taniyama, Takashi Tajima, Hisashi Tadakuma and Hideo Namiki	Rapid and Sensitive Detection Method of a Bacterium by using a GFP Reporter Phage	Microbiol. Immunol.	46 (6)	365-369	2002
I. Fujiwara, S. Takahashi, H. Tadakuma, T. Funatsu and S. Ishiwata	Microscopic analysis of polymerization dynamics with individual actin filaments	Nature Cell Biol.	4	666-673	2002
Y. Shirasaki, H. Makazu, K. Tashiro, S. Ikeda, T. Sekiguchi, S. Shoji, S. Tsukita and T. Funatsu	A Novel Biomolecule Sorter Using Thermosensitive Hydrogel in Micro Flow System	Micro Total Analysis System	2002	925-927	2002
船津高志	1分子蛍光イメージング技術による生命現象の解析	可視化情報	Vol.22, No.84	18-21	2002
座古保, 船津高志	生体分子の機能を1分子レベルで探る 1分子蛍光イメージング	分光研究	Vol. 51, No.1	3-14	2002
M. Dimitrova, H. Matsumura, N. Terezova and V. Neytchev	Binding of globular proteins to lipid membranes studied by isothermal titration calorimetry and fluorescence	Colloid & Surfaces B	24	53-61	2002
V. Neytchev, N. Terezova, H. Matsumura and T. Tomov	Membrane electroporation effects of frequency and membrane surface order on liposomes leakage	Histol Histopathol	17	649-656	2002
K. Furusawa and H. Matsumura	Electrokinetic characterization of Silica Coated Hematite and Application to the Formation of Composite Particles Including PC Liposomes	J. Colloid Interface Sci.	264	95-100	2003
Bo Yang, Kunio Furusawa and Hideo Matsumura	Adsorption state of PC vesicles on solid colloidal particles and their aggregation behavior induced by the PC vesicle	Langmuir	19	9023-9027	2003
K. Hanaki, A. Momo, T. Oku, A. Omoto, Y. Yamaguchi and K. Yamamoto	Semiconductor quantum dot/albumin complex Is a long-life and highly photostable endosome marker	B.B.R.C.	302	496-501	2003
J. Kizu, M. Arakawa and K. Yamamoto	Is There Relation between Antiviotic Sensitivity of Methicillin Resistant Staphylococcus Aureus and Consumption of Antiboitics in a Hospital? : A Study in April 1993 - March	Jpn. J. Infect.	55	65-67	2002
F. Takeuchi, Furuhashi Y. Yoshikura H, K. Yamamoto	Statistics of trinucleotides in coding sequences and evolution	J. Theor. Biol.	222	139-149	2003

T. Baba, F. Takeuchi, M.Kuroda, H.Yuzawa, K. Aoki, A. Oguchi, Y. Nagai, N. Iwama, K.Asano, T. Naimi, H. Kuroda, L. Cui, K. Yamamoto and K. Hiramatsu	Genome and virulence determinants of high virulence community-acquired MRSA	Lancet	359	1819-1827	2002
Shinpei Tanaka, Mitsuo Ataka, Tomomi Kubota, Tomomi Soga, Kohei Homma, Woo Cheol Lee and Masaru Tanokura	The effect of amphiphilic additives on the growth and morphology of <i>Aspergillus niger</i> acid proteinase A crystals	Journal of Crystal Growth	234	247-254	2002
秦野賢一, 澤野頼子, 田之倉優	パイナップル由来システインプロテアーゼインヒビターの構造と機能	化学と生物	Vol.4, No.5	320-325	2002
Yusuke Kato, Mie Ito, Kunji Kawai, Koji Nagata and Masaru Tanokura	Determinants of Ligand Specificity in Groups I and IV WW Domains as Studied by Plasmon Resonance and Model Building	Journal of Biological Chemistry	Vol.277, No.12	10173-10177	2002
Yoriko Sawano, Tomonari Muramatsu, Ken-ichi Hatano, Koji Nagata and Masaru Tanokura	Characterization of Genomic Sequence Coding for Bromelain Inhibitors in Pineapple and Expression of Its Recombinant Isoform	Journal of Biological Chemistry	Vol.277, No.31	28222-28227	2002
Ken-ichi Hatano, Yoriko Sawano and Masaru Tanokura	Structure-Function Relationship of Bromelain Isoinhibitors from Pineapple Stem	Biol. Chem.	Vol 383	1151-1156	2002
Y. Asami, D.-W. Jia, K. Tatebayashi, K. Yamagata, M. Tanokura and H. Ikeda	Effect of the DNA topoisomerase II inhibitor VP-16 on illegitimate recombination in yeast chromosomes	Gene	291(1-2)	251-257	2002
Mie Ito, K. Nagata, Yusuke Kato, Yoshifumi Oda, Satoshi Yamagoe, Kazuo Suzuki and Masaru Tanokura	Expression oxidative refolding and characterization of six-histidine-tagged recombinant human LECT2, a 16-kDa chemotactic protein with three disulfide bonds	Protein Expression Purification	27	272-278	2003
Wakana Iwasaki, Hiroshi Sakai, Akio Nakamura, Kazuhiro Kohama and Masaru Tanokura	Metal-Free and Ca <sup>2+</sup> -Bound Structures of a Multidomain EFHand Protein, CBP40, from the Lower Eukaryote, <i>Physarum polycephalum</i>	Structure	Vol. 11	75-85	2003
Masahiro Maeda, Kayoko Takeuchi, Masaki Kojima, Masaru Tanokura, Kazumoto Kimura, Yoshiyuki Amemiya, Hiroshi Kihara and Kenji Takahashi	Kinetic studies of unfolding process of aspergillopepsin II by pH-jump methods	Biochemical and Biophysical Research Communications	301	745-750	2003
K. Hatano, M. Kojima, M.Tanokura and K. Takahashi	Nuclear magnetic resonance studies on the pKa values and interactions of ionizable groups in bromelain inhibitor VI from pineapple stem	Biol. Chem.	384	93-104	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	論文タイトル名	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
関塚永一 大塩力、 細田泰雄 宮崎耕司 石井裕正	胃潰瘍または十二指腸潰瘍 診断群別臨床検査のガイド ライン2003～医療の標準化 に向けて～	日本臨床 検査医学会	日常初期診療における 臨床検査の使い方」 小委員会及び診断群分類 を用いた急性期入院医療 の検査ガイドライン策定に 関する研究」研究班編	宇宙堂八木書店	東京	2003	56-61
関塚永一 大塩力、 細田泰雄 宮崎耕司 石井裕正	胃の悪性新生物 診断群別 臨床検査のガイドライン2003 ～医療の標準化に向けて～	日本臨床 検査医学会	日常初期診療における 臨床検査の使い方」 小委員会及び診断群分類 を用いた急性期入院医療 の検査ガイドライン策定に 関する研究」研究班編	宇宙堂八木書店	東京	2003	62-67
細田泰雄 関塚永一 宮崎耕司 長沼誠、 井上詠 緒方晴彦 岩男泰 日比紀文 石井裕正	潰瘍性大腸炎(手術なし) 診断群別臨床検査のガイド ライン2003～医療の標準化 に向けて～	日本臨床 検査医学会	日常初期診療における 臨床検査の使い方」 小委員会及び診断群分類 を用いた急性期入院医療 の検査ガイドライン策定に 関する研究」研究班編	宇宙堂八木書店	東京	2003	68-71
真島利和	X線顕微鏡による細胞の 機能イメージング	植田充美	ナノバイオテクノロジー の最前線	シーエムシー出版	東京	2003	407-413
大内 敬 新井孝夫	リポソームを用いたモノ クローナル抗体の生細胞 導入法の開発とその応用	植田充美	ナノバイオテクノロジー の最前線	シーエムシー出版	東京	2003	258-265
多田隈尚史 船津高志	タンパク質を計測する タンパク質の相互作用と 機能	ナノテクノロジー ハンドブック 編修委員会	ナノテクノロジーハンド ブック	オーム社	東京	2003	94-99

雑誌

発表者氏名	論文タイトル名	発表雑誌	巻・号	ページ	出版年
Nagao, T., Takahashi, M., Matsuzaki, K., and Minamitani, H.,	Application of Bioimaging Techniques to Mechanistic Studies on Photodynamic Therapy	Bioimages	11(2)	53-60	2003
Minamitani, H., Tsukada, K., Sekizuka, E., and Oshio, C.	Optical Bioimaging: From Living Tissue to a Single Molecule: Imaging and Functional Analysis of Blood Flow in Organic Microcirculation	Journal of Pharmacological Sciences	93	227-233	2003
Minamitani, H.	Functional Analysis of Microcirculation Disorder by Using Nano Molecular Probes and Bioimaging Technique	Microcirculation Annual	19	27-28	2003
Arai, T., Tsukada, K., Sekizuka, E., Oshio, C., Terao, S., Hase, K., and Minamitani, H.	RBC Flow Imaging and pO <sub>2</sub> Measurement in Cerebral Microcirculation: Effect of Hemodilution on Oxygen Supply to Brain Cortical Arterioles	EMBC IEEE		1054-1057	2003
Tsukada, Kosuke Sekizuka, Eiichi Oshio, Chikara Tsujioka, Katsuhiko Minamitani, Haruyuki	Red blood cell velocity and oxygen tension measurement in cerebral microvessels by double-wavelength photoexcitation	J. Appl. Physiol.	96	1561-1568	2004
Tsukada, Kosuke Sakai, Shuhei Hase, Kentaro and Minamitani, Haruyuki	Development of catheter-type optical oxygen sensor and applications to bioinstrumentation	Biosensors and Bioelectronics	18	1439-1445	2003
塚田孝祐、緒方嘉貴、 辻岡克彦、南谷晴之	人工酸素運搬体Neo Red Cell 交換輸血時の脳微小循環動態および酸素分圧計測	脳循環代謝	15(4)	196-197	2003
Takahashi M., Nagao T., Imazeki Y., Matsuzaki K., Minamitani H.	Roles of reactive oxygen species in monocyte activation induced by photochemical reactions during photodynamic therapy	Frontiers Med. Biol. Engng.	11(4)	279-294	2002
塚田孝祐、南谷晴之、 辻岡克彦	脳皮質酸素代謝の可視化解析---軟膜微小循環血流と局所酸素分圧およびNADH蛍光計測からの検討	第18回生体生理工学シンポジウム論文集	24	381-382	2003
南谷晴之、塚田孝祐、 関塚永一、大塩力	臓器血流と酸素代謝の光・イメージング解析	公開シンポジウム「ナノとバイオの融合 学理構築、産業基盤形成」		91-96	2003
南谷晴之	ナノプローブ・イメージングによる細胞・組織障害の機能解析	日本学術振興会「材料の微細組織と機能性第133委員会研究資料	180	7-12	2003
南谷晴之、塚田孝祐、 関塚永一、大塩力	生命情報のセンシングー多波長励起フットニクイメージングシステムによる機能解析	平成16年電気学会全国大会論文集	3	S14(1)- (4)	2004
Ono, Kenji, Yoshihara, Ken, Suzuki, Hiromi Tanaka, Fkenji, Takii, Takemasa, Onozaki, and Sawada, Makoto	Preservation of Hematopoietic Properties in Transplanted Bone Marrow Cells in the Brain	Journal of Neuroscience Research	72	503-507	2003
今井文博、澤田誠、 鈴木弘美	脳疾患治療へのマイクログリア応用	脳 21	6(3)	26-30	2003
Hoshino, A., Hanaki, K., Suzuki, K. and Yamamoto, K.	Applications of T-lymphoma labeled with fluorescent quantum dots to cell tracing markers in mouse body	Biochem. Biophys. Res. Comm.	314	46-53	2004

Ichimori, K., Fukuyama, N., Nakazawa, H., Aratani, Y., Koyama, H., Takizawa, S., Kameoka, Y., Ishida-Okawara, A., Kohi, F. and Suzuki, K.	Myeloperoxidase has directly-opposed effects on nitration reaction - Study on Myeloperoxidase-deficient patient and myeloperoxidase-knockout mice	Free Radical Research	37	481-489	2003
Murata, K., Inami, M., Kubo, S., Kimura, M., Yamashita, M., Hosokawa, K., Nagao, T., Suzuki, K., Hashimoto, K., Shinkai, H., Koseki, H., Taniguchi, M., Ziegler, S.F. H., and Nakayama, T.	CD69-null mice protected from arthritis induced with anti-type-II collagen antibodies	Int. Immunol.	15	987-992	2003
Nunoi, H., Kohi, F., Kajiwara, H., and Suzuki, K.	Prevalence of Inherited Myeloperoxidase Deficiency in Japan	Microbiol. Immunol.	47	527-531	2003
Sakamoto, M., Hasegawa, A., Sugaya, K., Hashimoto, K., Kimura, M., Yamashita, M., Suzuki, K., and Nakayama, T.	Distinct calcium response induced by T-cell antigen receptor stimulation in thymocytes and mature T-cells	Bioimages	11	1-8	2003
Suzuki, K.	Neutrophil functions of patients with MPO-ANCA- related vasculitis	Internal Med.	42	552-553	2003
Kamei, K., Sano, A., Kikuchi, K., Makimura, K., Niimi, K., Suzuki, K., Uehara, Y., Okabe, N., Nishimura, K., and Miyaji, M.	The trend of imported mycoses in Japan	J. Infect. Chemother	9	16-20	2003
Ito-Oda, Mie, Yamagoe, S., Suzuki, K., and Tanokura, M.	Expression, oxidative refolding and characterization of six-histidine-tagged recombinant human LECT2, a 16 kDa chemotactic protein with three disulfide bonds	Protein Expression Purif.	27	272-278	2003
Hatanaka K., Hokari R., Matsuzaki K., Kato S., Miyazaki K., Sekizuka E Miura S.	Increased expression of mucosal addressin cell adhesion molecule-1 (MAdCAM-1) and lymphocyte recruitment in murine gastritis induced by <i>Helicobacter pylori</i>	Clin. Exp. Immunol.	130	183-189	2002
Morishita T., Kanazawa H., Sekizuka E., Miyazaki K.	Changes of hepatic microcirculation in cholestasis	Microcircul. Ann.	19	61-62	2003
関塚永一、中樞浩康、廣瀬耕徳、後閑治彦、南谷晴之、大塩力	目で見る血液の流れ、血液はさらさらと流れるだろうか、糖尿病における血管障害メカニズム	日本バイオイメージング学会公開シンポジウム「ナノバイオロジーをイメージングする」		S3-S6	2003
関塚永一、中樞浩康、廣瀬耕徳、後閑治彦、南谷晴之、大塩力	血液の流れから見る糖尿病における血管障害メカニズム	第10回日本ヘモレオロジー学会要旨集		16-18	2003

Tanaka H., Nishimaru K Makuta R., Hirayama W Kawamura T., Matsuda T., Tanaka Y., Kawanishi T., Shigenobu K.	Possible Involvement of Prostaglandins F2a and D2 in Acetylcholine-Induced Positive Inotropy in Isolated Mouse Left Atria	Pharmacology	67	157-162	2003
Tanaka, Hikaru, Kawanishi, Toru and Shigenobu Koki	Atrio-ventricular difference in myocardial excitation-contraction coupling---Influence of T-tubules and endocardial endothelium	Recent Res. Devel. Physiol.	1	253-262	2003
Tanaka, Hikaru, Kawanishi, Toru and Shigenobu Koki	Optical Bioimaging: From Living Tissue to a Single Molecule: Atrio- Ventricular Difference in Myocardial Excitation-Contraction Coupling --- Sequential Versus Simultaneous Activation of SR Ca2+ Release Units -	Journal of Pharmacological Sciences	93	248-252	2003
Ishii-Watababe A., Uchida E., Iwata A., Nagata R., Satoh K., Fan K., Murata M., Mizuguchi H., Kawasaki N., Kawanishi T., Yamaguchi T., Hayakawa T.	Detection of Replication-Competent Adenoviruses Spiked into Recombinant Adenovirus Vector Products by Infectivity PCR	Molecular Therapy	8(6)	1009-1016	2003
川西徹、松木滋	品質に関わるトピックの動向 -- Q5E: バイオ医薬品のコンパラビリティ	IYAKUHIN KENKYU	34(8)	508-512	2003
Kobayashi, Tetsu, Niimi Shingo, Kawanishi, Toru, Fukuoka, Masamichi, and Takao Hayakawa	Changes in peroxisome proliferator- activated receptor $\gamma$ -regulated gene expression and inhibin/activin- follistatin system gene expression in rat testis after an administration of di- n-butyl phthalate	Toxicology Letters	138	215-225	2003
Niimi S., Oshizawa T., Yamaguchi T., Harashima M., Seki T., Ariga T., Kawanishi T., Hayakawa T.	Specific expression of annexin III in rat-small-hepatocytes	Biochemical and Biophysical Research Communications	300	770-774	2003
川西徹、河合洋	イメージングで解き明かす生命機能	実験医学	22(3)	428-429	2004
Ohata, Hisayuki, Yamada, Hideyuki, Niioka, Takeharu, Yamamoto, Masayuki, and Momose, Kazutaka	Optical Bioimaging: From Living Tissue to a Single Molecule: Calcium Imaging in Blood Vessel <i>In Situ</i> Employing Two-Photon Excitation Fluorescence Microscopy	Journal of Pharmacological Sciences	93	242-247	2003
Hashimoto, Terumasa, Yamashita, Miyuki, Ohata, Hisayuki, and Momose, Kazutaka	Lysophosphatidic Acid Enhances In Vivo Infiltration and Activation of Guinea Pig Eosinophils and Neutrophils via a Rho/Rho-Associated Protein Kinase-Mediated Pathway	Journal of Pharmacological Sciences	91	8-14	2003
Akbari, O., Stock, P., Meyer, E., Kronenberg, M., Sidbre, S., Nakayama, T., Takiguchi, M., Grusby, M.J., DeKruyff, R.H., and Umetsu, D.T.	Essential role of NKT cells producing IL-4 and IL-13 in the development of allergen-induced airway hyperreactivity	Nature Medicine	9(5)	582-588	2003

Fukuda, K., Yoshida, H., Sato, T., Furumoto, T., Mizutani-Koseki, Y., Suzuki, Y., Saito, Y., Takemori, T., Kimura, M., Sato, H., Taniguchi, M., Nishikawa, S., Nakayama, T. and Koseki, H.	Mesenchymal expression of Foxl1, a winged helix transcriptional factor, regulates generation and maintenance of gut-associated lymphoid organs	Developmental Biology	255	278-289	2003
Ashcroft, G.S., Mills, S.J., Lei, K., Gibbons, L, Jeong, M.J., Taniguchi, M., Burow, M., Horan, M.A., Wahl, S.M., and Nakayama, T.	Estrogen modulates cutaneous wound healing by downregulating macrophage migration inhibitory factor	Journal of Clinical Investigation	III (9)	1309-1318	2003
Shirai, T., Magara, K.K., Motohashi, S., Yamashita, M., Kimura M., Suwazono Y., Nogawa K., Kuriyama T., Taniguchi M., Nakayama, T.	TH1-biased immunity induced by exposure to Antarctic winter	Journal of Allergy Clin. Immunol.	III (6)	1353-1360	2003
Nakamura, Y., Yasunami Y., Satoh M., Hirakawa E., Katsuta H. Ono J., Kamada M., Todo S., Nakayama T., Taniguchi M., Ikeda S.	Acceptance of Islet Allografts in the Liver of Mice by Blockade of an Inducible Costimulator	Transplantation	75(8)	1115-1118	2003
Shimonaka, M., Katagiri K., Nakayama T., Fujita N., Tsuruo T., Yoshie O., Kinashi T.	Rap1 translates chemokine signals to integrin activation, cell polarization, and motility across vascular endothelium under flow	The Journal of Cell Biology	161(2)	417-427	2003
Shimizu, T., Abe, R., Nishihira J., Shibaki A., Watanabe H., Nakayama T., Taniguchi M., Ishibashi T., Shimizu, H.	Impaired contact hypersensitivity in macrophage migration inhibitory factor-deficient mice	Eur. J. Immunol.	33	1478-1487	2003
Sakamoto, M., Hasegawa, A., Sugaya K, Hashimoto K Kimura M., Yamashita M Suzuki K., Nakayama T.	Distinct calcium response induced by T-cell antigen receptor stimulation in thymocytes and mature T-cells	Bioimages	11 (1)	1-8	2003
Zhang G., Nichols R.D., Taniguchi M., Nakayama T., Parmely M.J.	Gamma interferon production by hepatic NK T cells during Escherichia coli Infection is resistant to the inhibitory effects of oxidative stress	Infection and Immunity	71(5)	2468-2477	2003
Omori M., Yamashita M., Inami M., Tadenuma M., Kimura, M., Nigo Y., Hosokawa, H., Hasegawa H., Taniguchi M., Nakayama T.	CD8 T cell-specific downregulation of histone hyperacetylation and gene activation of the IL-4 gene locus by ROG, repressor of GATA	Immunity	19	281-294	2003

Nishikawa H., Kato T., Tanida K., Hiasa A., Tawara I., Ikeda H., Ikarashi Y., Wakasugi H., Kronenberg M., Nakayama T., Taniguchi M., Kuribayashi K., Old L.J., Shiku H.	CD4+ CD25+ T cells responding to serologically defined autoantigens suppress antitumor immune responses	PNAS	100(19)	10902-906	2003
Ito H., Ando K., Nakayama T., Taniguchi M., Ezaki T., Saito K., Takemura M., Sekikawa K., Imawari M., Seishima M., Moriwaki H.	Role of V $\alpha$ 14 NKT cells in the development of impaired liver regeneration <i>in vivo</i>	Hepatology	38(5)	1116-1124	2003
Kawakami K., Yamamoto N., Kinjo Y., Miyagi K., Nakasone C., Uezu K., Kinjo T., Nakayama T., Taniguchi M., Saito A.	Critical role of V $\alpha$ 14+ natural killer T cells in the innate phase of host protection against <i>Streptococcus</i> <i>pneumoniae</i> infection	Eur. J. Immunol.	33	3322-3330	2003
Koike J., Wakao H., Ishizuka Y., Sato T., Hamaoki M., Seino K., Koseki H., Nakayama T. Taniguchi M.	Bone marrow allograft rejection mediated by a novel murine NK receptor, NKG2I	J. Exp. Med.	199(1)	137-143	2004
Watanabe, H., Shimizu T Nishihira, J., Abe R., Nakayama T., Taniguchi M., Sabe H., Ishibashi T. Shimizu H.	Ultraviolet A-induced production of matrix metalloproteinase-1 is mediated by macrophage migration inhibitory factor (MIF) in human dermal fibroblasts	J. Biol. Chem.	279(3)	1676-1683	2004
Namekawa S., Hamada F., Sawada T., Ishii S., Nara T., Ishizaki T., Ohuchi T., Arai T., Sakaguchi K.	Dissociation of DNA polymerase $\alpha$ - primase complex during meiosis in <i>Coprinus cinereus</i>	Eur. J. Biochem.	270	2137-2146	2003
Zhang G., Tanii T., Zako T., Funatsu T., Ohdomari I.	The immobilization of DNA on micro- structured patterns fabricated by maskless lithography	Sensors and Actuators B	97	243-248	2004
上野太郎、多田隈尚史 船津高志	シャペロン機能の1分子蛍光イメージ ング	電気学会論文誌E	123(4)	107-111	2003
船津高志	単一分子計測とバイオフォトニクス	応用物理	72(6)	727-730	2003
多田隈尚史、船津高志 谷時雄	mRNA核外輸送の視覚化	蛋白質 核酸 酵素	48(4)	421-431	2003
Majima T., Tomie T., Shimuzu H.	Comparative studies of X-ray images and fluorescence images of the same specimens	J. Phys. IV	104	157-160	2003
眞島利和	X線顕微鏡による生体の計測	現代化学	386	51-55	2003
眞島利和	軟X線顕微鏡による生きている細胞の 高分解能イメージング	Polymer Preprints	52(13)	3828-3829	2003
Majima T., Otani K., Tomie T., Ohuchi T., Arai T.	X-ray imaging of extracellular matrix	Abstracts of 1st Int. Symposium Active Nano-characterization and Technology		217-218	2003
Matsumura H., Neytchev V., Terezova N., Tsoneva I.	Ca ion permeation through liposome membranes with heat generation by square-wave electric field	Colloids and Surfaces B: Biointerfaces	33	243-249	2004



Yang B., Furusawa K., Matsumura H.,	Adsorption state of egg yolk PC vesicles on solid colloidal particles and their aggregation behavior induced by the vesicle	Langmuir	19	9023-9027	2003
Furusawa K., Matsumura H., Majima T.	Characterization of silica-coated hematite and application to the formation of composite particles including egg yolk PC liposomes	J. Colloid & Interface Science	264	95-100	2003
Kitagawa J., Futamura Y., Yamamoto K.	Analysis of the conformational energy landscape of human snRNA with a metric based on tree representation of RNA structures	Nuclei Acids Research	31(7)	2006-2013	2003
Komoto A., Hanaki K., Maenosono S., Wakano J.Y., Yamaguchi Y., Yamamoto K.	Growth dynamics of <i>Bacillus circulans</i> colony	J. Theoretical Biol.	225	91-97	2003
Aringazin A.K., Dahnovsky Y., Krevchik V.D., Semenov M.B., Ovchinnikov A.A., Yamamoto K.	Two-dimensional tunnel correlations with dissipation	Physical Review B	68	15546(1-11)	2003
Katayama H., Nagata K., Ohira T., Yumoto F., Tanokura M., Nagasawa H.	The solution structure of molt-inhibiting hormone from the kuruma prawn <i>Marsupenaeus japonicus</i>	J. Biol. Chem.	278(11)	9620-9623	2003
Suzuki R., Nagata K., Yumoto F., Kawakami M Nemoto N. Furutani M., Adachi K., Maruyama T. Tanokura M.	Three dimensional solution structure of an archaeal FKBP with a dual function of peptidyl prolyl <i>cis-trans</i> isomerase and chaperone-like activities	J. Mol. Biol.	328(5)	1149-1160	2003
Hatano K., Kojima M., Suzuki E., Tanokura M., Takahashi K.	Determination of the NMR structure of Gln25-ribonuclease T1	Biol. Chem.	384(8)	1173-1183	2003
村松知成、小田佳史、 湯本史明、伊藤三恵、 田之倉優	真核生物ポリペプチド鎖終結因子 eRF1 の構造解析	日本バイオイメーシング学会第12回学術集会抄録集		297-298	2003
村松知成、小田佳史、 湯本史明、伊藤三恵、 田之倉優	真核生物ポリペプチド鎖終結因子 eRF1 による終止コドン認識メカニズム	厚生労働科研公開シンポジウム: バイオイメーシングとナノテクノロジー		98-99	2003
Kadota Y., Goh T., Tomatsu H., Tamauchi R., Higashi K., Muto S., Kuchitsu K.	Cryptogein-induced initial events in tobacco BY-2 cells: Pharmacological characterization of molecular relationship among cytosolic Ca <sup>2+</sup> transients anion efflux and production of reactive oxygen species	Plant Cell Physiol.	45(2)	160-170	2004
Kuriyama I., Asano N., Kato I., Oshige M., Sugino A., Kadota Y., Kuchitsu K., Yoshida H., Sakaguchi K., Mizushima Y.	L-Homoserylalminoethanol, a novel dipeptide alcohol inhibitor of eukaryotic DNA polymerase E from a plant cultured cells, <i>Nicotina tabacum</i> L	Bioorganic & Medicinal Chemistry	12	957-962	2004

## 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	論文タイトル名	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
Hirose Y, Sekizuka E, Nakadate H, Ozawa T, Minamitani H, Oshio C, Ishii H	Role of oxidative stress in interaction between endothelial cells and platelets in diabetes	H Ishii, M Suematsu, K Tanishita, Suzuki H	Organ Microcirculation - A gateway to diagnostic and therapeutic interventions	Springer-Verlag	東京	2005	239-241
上野太郎 多田隴尚史 船津高志	1分子イメージングによるシャペロン研究	小椋光、遠藤斗志也、森正敬、吉田賢石	細胞における蛋白質の一生	共立出版	東京	2005	in press
中山俊憲	T細胞の分化成熟 キーワードで理解する免疫学イラストマップ	鳥山一	アレルギー・免疫 別冊	羊土社	東京	2004	
中山俊憲、 橋本香保子	内外性リガンド認識とIL-12による自然免疫系と獲得免疫系の橋渡し—NKT細胞活性化の新しい分子機構		Annual Review 免疫2005	中外医学社	東京	2004	88-92
永田宏次、 田之倉優	タンパク質の発現	今中忠行	ゲノミクス・プロテオミクスの新展開—生物情報の解析と応用—	エヌ・ティー・エス	東京	2004	534-538
Kato Y, Ito M, Kawai K, Nagata K, Lee W C, Tanokura M	Determinants of ligand specificity in groups I and IVWW domains.	Yagasaki K, Miura Y, Hattori M, Nomura Y	Animal Cell Technology: Basic and Applied Aspects13	Kluwer Academic Publishers	Dordrecht Netherlands	2004	31-35
来須孝光、 朽津和幸	アブシジン酸のシグナル伝達とイオンチャンネル		植物ホルモンのシグナル伝達	秀潤社	東京	2004	in press
来須孝光、 朽津和幸	アブシジン酸情報伝達とイオンチャンネル		植物ホルモンのシグナル伝達	秀潤社	東京	2004	in press

雑誌

発表者氏名	論文タイトル名	発表雑誌	巻・号	ページ	出版年
南谷晴之、塚田孝祐	臓器血流と酸素代謝の光・イメージング解析	医学のあゆみ	210(3)	200-204	2004
Hirose Y, Nakadate H, Gokan H, Minamitani H, Sekizuka E, Oshio C, Izumida T, Sakamoto N, Shimozawa M, Yoshikawa T	Enhanced platelet aggregability in diabetic patients established by laser light scattering method	Microcirculation Annual	20	49-50	2004
Nakadate H, Sekizuka E, Oshio C, Hirose Y, Gokan H, Minamitani H	The effect of shear stress on the accelerated adhesion of diabetic platelets	Microcirculation Annual	20	51-52	2004
Shibuya N, Iwata Y, Minamitani H, Ushiyama A, Ohkubo C	Blood flow dynamics and intravascular oxygen tension of tumor microvessels in photodynamic therapy	Microcirculation Annual	20	87-88	2004
Terao S, Sekizuka E, Ishikawa M, Yamaguchi N, Minamitani H, Kawase T	Color imaging of platelets and leukocytes labeled with different fluorescent material in brain pial vessels of C57Bl/6 mouse	Microcirculation Annual	20	99-100	2004
Nagao T, Murayama K, Koshio O, Ohno H, Miura N, Takahashi K, Mabuchi A, Minamitani H, Suzuki K	腎臓血管傷害のイメージング	Pharma Medica	22(5)	185-189	2004
Tsukada K, Sekizuka E, Oshio C, Tsujioka K, Minamitani H	Red blood cell velocity and oxygen tension measurement in cerebral microvessels by double wavelength photoexcitation	J. Appl. Physiol.	96	196-197	2004
Ovejero C, Cavard C, Perianin A, Hakvoort T, Vermeulen J, Godard C, Fabre M, Chafey P, Suzuki K	Identification of the leukocyte cell-derived chemotaxin2 (LECT2) as a direct target gene of s-catenin in the liver	Heaptology	40	167-176	2004
Saito T, Okumura A, Watanabe H, Asano M, Ishida-Okawara A, Sakagami J, Sudo K, Hatano-Yokoe Y, Abo T, Iwakura Y, Suzuki K	Increase of Hepatic NKT cells in LECT2-deficient mice contributes to severe concanavalinA-induced hepatitis	J. Immunol.	173	579-585	2004
Suzuki, S., Honma K, Matsuyama T, Suzuki K, Toriyama K, Yamamoto K, Miyazaki K, Nakamura M, Yu k, Kumatori A	Critical roles of interferon regulatory factor-4 in CD11b high CD8 dendritic cell development	Proc. Natl. Acad. Sci.	101	8981-8986	2004
Ishida-Okawara, A., Ito-Ihara T, Muso E, Ono T, Saiga K, Nemoto K, Suzuki, K.	Neutrophil contribution to the crescentic glomerulonephritis in SCG/Kj mice	Nephrol. Dial. Transplant.	19	1708-1715	2004
Ohashi Y, Kameoka Y, Persad A S, Kohi F, Yamagoe S, Hashimoto K, Suzuki K	Novel missense mutation found in Japanese patient with myeloperoxidase deficiency	Gene	327	195-200	2004
Hoshino A, Hanaki K, Suzuki K, Yamamoto K	Applications of T-lymphoma labeled with fluorescent quantum dots to cell tracing markers in mouse body	Biochem. Biophys. Res. Comm.	314	46-53	2004
Hoshino A, Fujioka K, Oku T, Nakayama S, Suga M, Yamaguchi Y, Suzuki K, Yamamoto K	Quantum dots targeted to the assigned organelle in living cells	Microbiol. Immunol.	48	985-994	2004

Nagai-Miura N, Shingo Y, Adachi Y, Ishida-Okawara A, Oharaseki T, Takahashi K, Nose S, Suzuki K	Induction of coronary arteritis with administration of CAWS ( <i>Candida albicans</i> water-soluble fraction) depending on mouse strain	Immunol. Pharmacol. Immunotoxicol.	26	527-543	2004
Kameoka Y, Persad A S, Suzuki K	Genomic variations in myeloperoxidase gene in the Japanese population	Jpn. J. Infect. Dis.	57	S12-13	2004
Aratani Y, Kura F, Watanabe H, Akagawa H, Takano Y, Suzuki K, Dinauer M C, Maeda N, Koyama H	In vivo role of myeloperoxidase for the host defense	Jpn. J. Infect. Dis.	57	S15-16	2004
Muso E, Ito-Ihara T, Ono T, Imai E, Yamagata K, Akamatsu A, Suzuki K	Intravenous immunoglobulin (IVIg) therapy in MPO-ANCA related polyangitis with rapidly progressive glomerulonephritis	Jpn. J. Infect. Dis.	57	S17-18	2004
Shinohara A, Hoshino A, Hanaki K, Suzuki K, Yamamoto K	On the cyto-toxicity caused by quantum dots	Microbiol. Immunol.	48	669-676	2004
Ito M, Nagata N, Yumoto F, Yamagoe S, Suzuki K, Adachi K, Tanokura M	<sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N response assignments of the cytokine LECT2	J. Biomolecular NMR	29	543-544	2004
Oharaseki T, Kameoka Y, Kura F, Persad A S, Suzuki K, Naoe S	Susceptibility loci to coronary arteritis in animal model of Kawasaki disease induced with <i>Candida albicans</i> -derived substances	Microbiol. Immunol.		in press	2005
鈴木和男	バイオイメージングが切り開く新たな診断・治療評価技術	医学のあゆみ	210	171	2004
長尾朋和、鈴木和男	血管炎初期反応のイメージング	医学のあゆみ	210	196-199	2004
長尾朋和、村山研、越尾修、大野尚仁、三浦典子、高橋啓、馬淵綾子、南谷晴之、鈴木和男	腎臓血管傷害のイメージング	Pharma Medica	22	185-189	2004
Suzuki T, Nishimaki-Mogami T, Kawai H, Kobayashi T, Shinozaki Y, Sato Y, Hashimoto T, Asakawa Y, Inoue K, Ohno Y, Hayakawa T, Kawanishi T	Screening of novel nuclear receptor agonist by a convenient reporter gene assay system using GFP derivatives	Phytomedicine		in press	2005
Tanaka H, Komikado C, Shimada H, Takeda K, Namekata I, Kawanishi T, Shigenobu K	The R(-)enantiomer of efonidipine blocks T-type but not L-type calcium current in guinea-pig ventricular myocardium	J. Pharmacol. Sci.		in press	2005
Kawai H, Suzuki T, Kobayashi T, Sakurai H, Ohata H, Honda K, Momose K, Namekata I, Tanaka H, Shigenobu K, Nakamura R, Hayakawa T, Kawanishi T	Simultaneous real-time detection of initiator and effector caspase activation by double FRET analysis	J. Pharmacol. Sci.		in press	2005
Kobayashi T, Kawai H, Suzuki T, Kawanishi T, Hayakawa T	Improved sensitivity of insulin in MALDI-TOF MS by premixing matrix CHCA with transferrin	Rapid Com. In Mass Spec.	18	1156-1160	2004
Kawai H, Suzuki T, Kobayashi T, Mizuguchi H, Hayakawa T, Kawanishi T	Simultaneous imaging of initiator/effector caspase activity and mitochondrial membrane potential during cell death in living HeLa cells	Biochem. Biophys. Acta	1693	101-110	2004
Hashimoto T, Ohata H, Momose K, Namekata I,	Itch-scratch response induced by lysophosphatidic acid in mice	Pharmacology	72	51-56	2004

大幡久之、新岡丈治、 金明淑、安藤さなえ、 山本雅幸、百瀬和孝	メカノセンシタイザーとしてのリゾホスファチ ジン酸の役割	日本薬理学雑誌	124	329-335	2004
川西徹	細胞傷害機構のイメージング	実験医学	22	428-429	2004
Murayam K, Ohuchi T, Yoshida K, Shibata Y, Sugawara F, Arai T	Protective properties of neoechinulin A against SIN-1-induced neuronal cell death	J. Biochem.	136	81-87	2004
新井孝夫	モノクローナル抗体をもちいたポリグルタミン 酸化チューブリンの神経細胞内局在	実験医学	22	81-87	2004
Okada Y, Suzuki A, Takagi S, Hirai H, Saito R, Adachi A, Ueki M, Fujii T, Arai T	Polyglutamylation of tubulin during differen- tiation of neural precursor cells	Bioimages		in press	2005
Ishikawa M, Sekizuka E, Zhang J H, Nanda A, Granger D N	Platelet and leukocyte adhesion in the celebral microvasculature	Microcirculation Annual	20	63-67	2004
Majima T,	Soft X-ray imaging of living cells in water flash contact soft Z-ray microscope	Trends in Analytical Chemistry	23	520-525	2004
眞島利和、兩宮邦昭	密着型フラッシュ軟X線顕微鏡	Radioisotopes	53	245-256	2004
Zhang G, Tanii T, Zako T, Funatsu T,	The immobilization of DNA on microstructur- ed patterns fabricated by maskless lithogra- phy	Sensors and Actuators B	97	243-248	2004
Zhang G., Tanii T, Funatsu T,	Patterning of DNA nanostructures on silicon surface by electron beam lithography of self-assembled monolayer	Chem. Comm.		786-787	2004
Ueno T, Taguchi H, Tadakuma H, Yoshida M, Funatsu T,	GroEL mediates protein folding with a two successive timer mechanism	Molecular Cell	14	423-434	2004
Okochi M, Nomura T, Zako T, Iizuka R, Ueda H, Funatsu T, Leroux M, Youhda M	Kinetics and bindingsites for interaction of II chaperonin: contiguous non-native subst- rate and shaperonin binding sites in archaeal prefoldin	J. Biol.Chem.	279	31788-795	2004
Tnii T, Hosaka T, Miyake T, Zhang T, Zako T, Funatsu T, Ohdomoari I	Preferential immobilization of biomolecules on silicon microstructure array by means of electron beam lothography on organosilane self-assembled monolayer resist	Appl. Surf. Sci.	234	102-106	2004
Zako tT, Funatsu T, Youhda M	Kinetic analysis of interactions between archaeal prefoldin and chaperonin	Recent Res. Develop. Biophys.	3	475-483	2004
Koike J., Wakao H., Ishizuka Y., Sato T., Hamaoki M., Seino K., Koseki H., Nakayama T. Taniguchi M.	Bone marrow allograft rejection mediated by a novel murine NK receptor, NKG2I	J. Exp. Med.	199(1)	137-143	2004
Watanabe, H., Shimizu T Nishihira, J., Abe R., Nakayama T., Taniguchi M., Sabe H., Ishibashi T. Shimizu H.	Ultraviolet A-induced production of matrix metalloproteinase-1 is mediated by macrophage migration inhibitory factor (MIF) in human dermal fibroblasts	J. Biol. Chem.	279(3)	1676-1683	2004
Hasegawa A, Cheng X, Kajino K, Berezov A, Murata R, Nakayama T, Yagita H, Murali R, Greene M I	Fas disabling small exocyclic peptide mimetecs limit apoptosis by an unexpected mechanism	Proc. Natl. Acad. Sci. USA	101	6599-6604	2004

Kobayashi S, Kaneko Y, Seino K, Yamada Y, Motohashi S, Koike J, Sugaya K, Kuriyama T, Asano S, Tsuda T, Wakao H, Harada M, Kojo S, Nakayama T., Taniguchi M	Impaired IFN- $\gamma$ production of V $\alpha$ 24 NKT cells in non-remitting sarcoidosis	Int. Immunol.	16	215-222	2004
Harada M, Seino K, Wakao H, Sakata S, Ishizuka Y., Ito T, Kojo S, Nakayamat, Taniguchi M	Down-regulation of the invariant V $\alpha$ 14 antigen receptor in NKT cells upon activation	Int. Immunol.	16	241-247	2004
Hiroshima K, Iyoda A, Shibuya K, Haga Y, Toyozaki T, Iizawa T, Nakayama T, Fujisawa T, Ohwada H	Genetic alterations in an early-stage pulmonary large cell neuroendocrine carcinoma	Cancer	100	1190-1198	2004
Kondo N, Ishii Y, Son A, Sakakura-Nishiyama J, Kwon Y W, Tanito M, Nishinaka Y, Matsuo Y, Nakayama T, Taniguchi M, Yodoi, J	Cysteine-dependent immune regulation by TRX and MIF/GIF family proteins	Immunol. Letters	92	143-147	2004
Inami M, Yamashita M, Tenda Y, Hasegawa A, Kimura M, Hashimoto K, Seki N, Taniguchi M, Nakayama T	CD28 costimulation controls histone hyperacetylation of the IL-5 gene locus in developing Th2 cells	J. Biol. Chem.	279	23123-133	2004
Yamashita M, Miyamoto T, Ukai-Tadenuma M, Sugaya K, Hosokawa H, Hasegawa A, Kimura M, Taniguchi M, DeGregori J, Nakayama T	Essential role of GATA3 for the maintenance of type2 helper T (Th2) cytokine production and chromatin remodeling at the Th2 cytokine gene loci	J. Biol. Chem.	279	26983-990	2004
Shimizu E, Koike J, Wakao H, Seino K, Koseki H, Kakiuchi T, Nakayama T, Taniguchi M.	Role of a NK receptor , KLRE-1, in bone marrow allograft rejection: analysis with KLRE-1 deficient mice	Blood	104	781-783	2004
Yamashita M, Shinnakasu R, Nigo Y, Kimura M, Hasegawa A, Taniguchi M, Nakayama T	Interleukin (IL)-4-independent maintenance of histone modification of the IL-4 gene loci in memory Th2 cells	J. Biol. Chem.	279	39454-464	2004
Nakai Y, Iwabuchi K, Fujii S, Ishimori N, Dashtsoodol N, Watano K, Mishima T, Iwabuchi C, Tanaka S, Bezbradica J S, Nakayama T, Taniguchi M, Miyake S, Yamamura T, Kitabatake A, Joyce S, Van Kaer L, Onoe K	Natural killer T cells accelerate atherogenesis in mice. Short title: NKT cells and atherosclerosis in mice	Blood	104	2051-2059	2004
Diano H, Kon S, Iwabuchi K, kimura C, Morimoto J, Ito D, Segawa T, Maeda M, Hamuro J, Nakayama T, Taniguchi M, Ygaita H, Van kaer L, Onoe K, Uede T Denhardt D, Rittling S,	Osteopontin as a mediator of NKT cell function in T cell-mediated liver diseases	Immunity	21	539-550	2004

Katsumoto T, Kimura M, Yamashita M, Hosokawa H, Hashimoto K, Hasegawa A, Omori M, Miyamoto T, Taniguchi M, Nakayama T	STAT6-dependent differentiation and production of IL-5 and IL-13 in murine NK2 cells	J. Immunol.	173	4967-4975	2004
Kimura M, Hosokawa H, Yamashita M, Watarai H, Hasegawa A, Iwamura C, Taniguchi M, Takagi T, Ishii S, Nakayama T.	Regulation of Th2 cell differentiation by murine Schnurri-2	J. Exp. Med.		in press	2005
Ishikawa A, Motohashi S, Ishikawa E, Fuchida H, Higashino K, Otsuji M, Iizawa T, Nakayama T, Taniguchi M, Fujisawa T	A phase I study $\alpha$ galactosylceramide (KRN7000)-pulsed dendritic cells in patients with advanced and recurrent non-small cell lung cancer	Clin. Can. Res.		in press	2005
山下政克, 中山俊憲	BCGによるI型アレルギー疾患治療の可能性	医学のあゆみ	208(3)	171-176	2004
中山俊憲, 清野宏, 笹月健彦	免疫研究分野のフロンティア:分子、細胞から個体レベルでの免疫システムの解明とそれが導く新しい臨床応用	実験医学増刊			2004
中山俊憲	システムとしての免疫系—分子、細胞、場のダイナミックな統合とシステムの破綻としての免疫疾患	実験医学増刊	22(5)	16-20	2004
山下政克, 中山俊憲	Th2/Tc2細胞分化に伴うTh2サイトカイン遺伝子(IL-4, IL-5, IL-13)座のクロマチンリモデリング	実験医学増刊	22(5)	64-71	2004
本橋新一郎, 中山俊憲	NKT細胞免疫系活性化によるがん免疫療法	Medical Science Digest	30(4)	29-33	2004
木村元子, 中山俊憲	アレルギー疾患とヘルパーT細胞の機能	アレルギー・免疫別冊	11(4)	32-39	2004
山下政克, 中山俊憲	クロマチン修飾を介した免疫反応の制御: Th2細胞分化をモデルに	細胞工学	23(10)	1166-1170	2004
中山俊憲	Th1/Th2細胞免疫システムの形成と維持—Th2-依存性の気道炎症制御機構とTh2サイトカイン遺伝子(IL-4, IL-5, IL-13)座のクロマチンリモデリング—	耳鼻免疫アレルギー	22(3)	001-008	2004
山下政克, 中山俊憲	Th2細胞分化に伴うTh2サイトカイン遺伝子座のクロマチンリモデリング	Molecular Medicine 免疫2005	41	011-019	2004
中山俊憲	アレルギー発症を制御するTh2細胞の分化・機能維持に関する研究	アレルギー	33	88-92	2004
Kudo N, Yasumasu S, Iuchi I, Tanokura M	Crystallization and preliminary X-ray analysis of HCE-1, a hatching enzyme of Medaka fish, <i>Oryzias latipes</i>	Acta Crystal.	D60	725-726	2004
Kim Y T, Kurita R, Kojima M, Nishii W, Tanokura M, Muramatsu T, Ito H, Takahashi K	Identification of arginine residues important for the activity of <i>Escherichia coli</i> signal peptidase	I. Biol. Chem.	385	381-388	2004
Nara M, Yumoto F, Nagata K, Tanokura M, Kagi H, Ojima T, Nishita K	Fourier transform infrared spectroscopic study on the binding of Mg <sup>2+</sup> to a mutant Akazara scallop troponin C (E142Q)	Biopolymers	74	77-81	2004
Miyazono K, Kudo N, Tanokura M	Cloning, purification, crystallization, and preliminary crystallographic analysis of acyl-phosphatase from <i>Pyrococcus horikoshii</i> OT3	Acta Crystal.	D60	1135-1136	2004
Kamo M, Kudo N, Lee W C, Motoshima H, Tanokura M	Crystallization and preliminary X-ray crystallographic analysis of peptide deformylase from <i>Thermus thermophilus</i> HB8	Acta Crystal.	D60	1299-1300	2004

Kato Y, Nagata K, Lian L, Takahashi M, Herrero J, Sudol M, Tanokura M	Common mechanism of ligand recognition by group- II / III WW domains – Refinding their functional classification	J. Biol. Chem.	279	31833-841	2004
Bekker E G, Creagh A L, Sanaie N, Yumoto F Y, Lau G H, Tanokura M, Haynes C A, Murphy MEP	Specificity of the synergistic anion for iron-binding by ferric binding protein from <i>Neisseria gonorrhoeae</i>	Biochemistry	43	9195-9203	2004
Hu F, Furihata K, Ito-Ishida M, Kaminogawa S, Tanokura M	Nondestructive observation of bovine milk by NMR spectroscopy: Analysis of existing states of compounds and detection of new compounds	J. Agr. Food Chem.	52	4969-4974	2004
Nagata K, Tsutsui S, Lee W C, Ito K, Kamo M, Inoue Y, Tanokura M	Crystallization and preliminary X-ray analysis of carboxypeptidase 1 from <i>Thermus thermophilus</i>	Acta Crystal.	D60	1445-1446	2004
Kato Y, Akai A, Suzuki R, Hosokawa H, Ninomiya H, Masaki T, Nagata K, Tanokura M	<sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N assignments of the tandem WW domains of human MAGI-1/BAP-1	J. Biomol. NMR	29	539-540	2004
Lee W C, Ohshiro T, Matsubara T, Izumi Y, Tanokura M	Crystallization and preliminary X-ray analysis of desulfurization enzyme DszB and its C27S mutant complexed with biphenyl-2-sulfinic acid	Acta Crystal.	D60	1636-1638	2004
Oda Y, Muramatsu T, Ito M, Yumoto F, Tanokura M	Backbone <sup>1</sup> H, <sup>13</sup> C and <sup>15</sup> N resonance assignment of the N-terminal domain of human eRF1	J. Biomol. NMR	30	109-110	2004
Furusawa Y, Nagarajan V, Tanokura M, Masai E, Fukuda M, Senda T	Crystal structure of the terminal oxygenase component of biphenyl dioxygenase derived from <i>Rhodococcus</i> sp. Strain RHA1	J. Mol. Biol.	342	1041-1052	2004
Sasaki H, Nakagawa A, Muramatsu T, Sugauma M, Sawano Y, Kojima M, Kubota K, Takahashi K, Tanokura M	The three dimensional structure of aspergilloglutamic peptidase from <i>Aspergillus niger</i>	Proc. Japan Acad.	80B	435-438	2004
Miyazono K, Sawano Y, Tanokura M	Crystal structure of acylphosphatase from hyperthermophilic archaeon <i>Pyrococcus horikoshii</i> OT3	Proc. Japan Acad.	80B	439-442	2004
Pan D, Tanokura M	Purification and characterization of an aminopeptidase from <i>Lactobacillus helveticus</i> JCM1004	Food Chem.	88	511-516	2004
Suzuki T, Someya S, Hu F, Tanokura M	Comparative study of catechin composition in five Japanese perisimmons ( <i>Diospyros kaki</i> )	Food Chem.		in press	2005
加藤有介, 田之倉優	リン酸化とタンパク質立体構造	Molecular Medicine	41	522-529	2004
田之倉優, 李愚哲	タンパク質の結晶化とX線構造解析—ニトロフラビン還元酵素と脱硫酵素を例として	日本農芸化学会誌	78	565-567	2004
加茂昌之, 田之倉優	タンパク質の形をみた立役者たち。X線結晶構造解析による高精度立体構造解析	化学と教育	52	463-466	2004
岩崎わかな, 田之倉優	EF-hand 蛋白質CBP40のカルシウム結合および非結合状態の立体構造	日本結晶学会誌	46	359-363	2004
Muramatsu T, Oda Y, Yumoto F, Ito M, Tanokura M	Analysis of dynamic structure of eukaryotic release factor 1 (eRF1)	Bioimages	12	37-37	2004
Furusawa K, Matsumura H	Colloidal nanoparticles: Electrokinetic characterization	Dekker Encyclopedia of Nanoscience and Nanotechnology		773-786	2004
Matsumura H, Neytchev V., Terezova N., Tsoneva I.	Ca ion permeation through liposome membranes with heat generation by square-wave electric field	Colloids and Surfaces B: Biointerfaces	33	243-249	2004



Hoshino A, Fujioka K, Oku T, Suga M, Yu F, Sasaki F, Ohta T, Yasuhara M, Suzuki K, Yamamoto K	Physico-chemical properties and cellular toxicity of nanocrystal quantum dots depend on their surface modification	Nano Letters		in press	2005
Yamamoto K, Manabe N	Randomness and organization of the bio-nano particles into the functional structure	Theoretical and Applied Mechanics, Japan	53	111-114	2004
Aringazin A.K., Dahnovsky Y., Krevchik V.D., Semenov M.B., Ovchinnikov A.A., Yamamoto K.	Two-dimensional tunnel bifurcations with dissipation	Hadronic Journal	27(N2)	115-150	2004
Himeda T, Ohara Y, Asakura K, Kontani Y, Murakami M, Suzuki H, Sawada M	A lentiviral expression system demonstrates that L(*) protein of Theiler's murine encephalomyelitis virus (TMEV) is essential for virus growth in a murine macrophage-like cell line	Virus Res	108	23-28	2005
Imamura K, Hishikawa N, Ono K, Suzuki H, Sawada M, Nagatsu T, Yoshida M, Hashizume Y	Cytokine production of activated microglia and decrease in neurotrophic factors of neurons in the hippocampus of Lewy body disease brains	Acta Neuropathol.		in press	2004
鈴木弘美、澤田誠	脳機能障害とミクログリアのかかわりおよび細胞を用いた標的化治療・診断	医学のあゆみ	210(3)	187-190	2004
塚田孝祐	低酸素のバイオイメージング	医学のあゆみ「レドックス」		in press	2005
Higashi K, Takasawa R, Yoshimori A, Goh T, Tanuma S, Kuchitsu K	Identification of a novel gene family, paralogs of an inhibitor of apoptosis proteins present in plants, fungi, and animals	Apoptosis		in press	2005
Fukuta N, Miyasaka M, Saitou R, Kuchitsu K	The relationship between various image of acyanic petal of Eustoma gradiflorum under UV light and flavonoid content	Hort. Res.		in press	2005
Kadota Y, atanabe T, Fujii S, Maeda Y, Ohno R, Higashi K, Sano T, Muto S, Hasezawa S, Kuchitsu K	Cell-cycle dependence of elicitor-induced signal transduction in tobacco BY-2 cells	Plant Cell Physiol.	46(1)	156-165	2005
Karita E, Yamakawa H, Mitsuhashi I, Kuchitsu K, Ohashi Y	Three types of tobacco calmodulins characteristically activate plant NAD kinase at different Ca <sup>2+</sup> concentration and pHs	Plant Cell Physiol.	45(11)	1371-1379	2004
Kadota Y, Watanabe T, Fujii S, Higashi K, Sano T, Nagata T, Hasezawa S, Kuchitsu K	Crosstalk between elicitor-induced cell death and cell cycle regulation in tobacco BY-2 cells	The Plant J.	40(10)	131-142	2004
Kurusu T, Sakurai S, Miyao A, Hirochika H, Kuchitsu K	Identification of a putative voltage-gated Ca <sup>2+</sup> permeable channel (OsTPC1) involved in Ca <sup>2+</sup> influx and regulation of growth and development in rice	Plant Cell Physiol.	45(6)	693-702	2004
Kadota Y, Furuichi T, Ogasawara Y, Goh T, Higashi K, Muto S, Kuchitsu K	Identification of a putative voltage-dependent Ca <sup>2+</sup> permeable channel involved in cryptogein-induced Ca <sup>2+</sup> transients and defense responses in tobacco BY-2 cells	Biochem. Biophys. Res. Comm.	317	823-830	2004
Kadota Y., Goh T., Tomatsu H., Tamauchi R., Higashi K., Muto S., Kuchitsu K.	Cryptogein-induced initial events in tobacco BY-2 cells: Pharmacological characterization of molecular relationship among cytosolic Ca <sup>2+</sup> transients anion efflux and production of reactive oxygen species	Plant Cell Physiol.	45(2)	160-170	2004

Kuriyama I., Asano N., Kato I., Oshige M., Sugino A., Kadota Y., Kuchitsu K., Yoshida H., Sakaguchi K., Mizushina Y.	L-Homoserylalanoethanol, a novel dipeptide alcohol inhibitor of eukaryotic DNA polymerase E from a plant cultured cells, <i>Nicotina tabacum</i> L	Bioorganic & Medicinal Chemistry	12	957-962	2004
朽津和幸	植物がストレスを感じる仕組みを「見る」ー ホルモン受容部位や情報の伝達を可視化する バイオイメージング技術の開発	バイオデザインー生物の 形と機能ー、NIASアグリ バイオサイエンスシリーズ	1	60-62	2004