

- Beraprost sodium enhances neovascularization in ischemic myocardium by mobilizing bone marrow cells in rats. *Biochem Biophys Res Commun*, 349(4): 1242-1249, 2006.
33. Miyahara Y, Nagaya N, Kataoka M, Yanagawa B, Tanaka K, Hao H, Ishino K, Ishida H, Shimizu T, Kangawa K, Sano S, Okano T, Kitamura S, Mori H: Monolayered mesenchymal stem cells repair scarred myocardium after myocardial infarction. *Nat Med*, 12(4): 459-465, 2006.
  34. Mori H, Mochizuki N, Takeda S, Inoue H, Nakamura S, Tsuchiya T: [Nano -level imaging for analyzing protein structure and function]. *Nippon Rinsho*, 64(2): 358-364, 2006.
  35. Nakamura TY, Jeromin A, Smith G, Kurushima H, Koga H, Nakabeppu Y, Wakabayashi S, Nabekura J: Novel Role of Neuronal Ca<sup>2+</sup> Sensor-1 as a Survival Factor Up-Regulated in Injured Neurons. *J. Cell Biol.*, 172(7): 1081-1091, 2006.
  36. Park W, Lim W, Cho J, Inoue H, Rhyu MR, Lee Y: Inhibitory effects of ginsenoside-Rb1 on activation of the 12-O-tetradecanoylphorbol 13-acetate-induced cyclooxygenase-2 promoter. *Planta Med*, 72(3): 272-275, 2006.
  37. Sakurai A, Fukuhara S, Yamagishi A, Sako K, Kamioka Y, Masuda M, Nakaoka Y, Mochizuki N: MAGI-1 is required for Rap1 activation upon cell-cell contact and for enhancement of vascular endothelial cadherin-mediated cell adhesion. *Mol Biol Cell*, 17(2): 966-976, 2006.
  38. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Onagawa J: Characteristic X-ray Generator Utilizing Angle Dependence of Bremsstrahlung X-ray Distribution. *Japanese Journal of Applied Physics*, 45(No. 4A): 2845-2849, 2006.
  39. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Izumisawa M, Takahashi K, Sato S, Ichimaru T, Takayama K: Demonstration of enhanced K-edge angiography utilizing a samarium x-ray generator. *Proc. of World Congress on Med. Phys. And Biomedical Engineering 2006*, 1250-1253, Souel, 2006.
  40. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Izumisawa M, Takahashi K, Sato S, Ichimaru T, Takayama K: Real time magnification radiography utilizing a 100- $\mu$ m-focus x-ray generator. *Proc. of World Congress on Med. Phys. And Biomedical Engineering 2006*, 1415-1418, Souel, 2006.
  41. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Izumisawa M, Takahashi K, Sato S, Ichimaru T, Takayama K: Enhanced magnification angiography utilizing a 100- $\mu$ m-focus tungsten tube in conjunction with gadolinium-based media. *Proc. of World Congress on Med. Phys. And Biomedical Engineering 2006*, 1427-1430, Souel, 2006.
  42. Sato E, Sugiyama H, Ando M, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Takayama K, Onagawa J, Ido H: Tunable narrow-photon-energy X-ray generator utilizing a tungsten-target tube. *Jpn. J. Appl. Phys.*, 45: 8005-8009, 2006.
  43. Sato E, Hayasi Y, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Onagawa J, Ido H: Preliminary study for producing higher harmonic hard x-rays from weakly ionized nickel plasma. *Rad.Phys.Chem.*, 75: 1812-1818, 2006.
  44. Sato E, Hayasi Y, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Ido H: K-edge angiography utilizing a tungsten plasma x-ray generator in conjunction with gadolinium-based contrast media. *Rad.Phys.Chem.*, 75: 1841-1849, 2006.
  45. Sato E, Hayashi Y, Germer R, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Onagawa J: X-ray Spectra from Weakly Ionized

- Linear Copper Plasma. *Japanese Journal of Applied Physics*, 45(6A): 5301-5306, 2006.
46. Schwenke DO, Pearson JT, Mori H, Shirai M: Does central nitric oxide elicit pulmonary hypertension in conscious rats? *Respir Physiol Neurobiol*, 2006.
  47. Schwenke DO, Pearson JT, Mori H, Shirai M: Long-term monitoring of pulmonary arterial pressure in conscious, unrestrained mice. *J Pharmacol Toxicol Methods*, 53(3): 277-283, 2006.
  48. Takahama H, Minamino T, Hirata A, Ogai A, Asanuma H, Fujita M, Wakeno M, Tsukamoto O, Okada K, Komamura K, Takashima S, Shinozaki Y, Mori H, Mochizuki N, Kitakaze M: Granulocyte colony-stimulating factor mediates cardioprotection against ischemia/reperfusion injury via phosphatidylinositol-3-kinase/Akt pathway in canine hearts. *Cardiovasc Drugs Ther*, 20(3): 159-165, 2006.
  49. Takeda S, Igarashi T, Mori H, Araki S: Crystal structures of VAP1 reveal ADAMs' MDC domain architecture and its unique C-shaped scaffold. *Embo J*, 25(11): 2388-2396, 2006.
  50. Yada T, Shimokawa H, Hiramatsu O, Haruna Y, Morita Y, Kashihara N, Shinozaki Y, Mori H, Goto M, Ogasawara Y, Kajiya F: Cardioprotective role of endogenous hydrogen peroxide during ischemia-reperfusion injury in canine coronary microcirculation in vivo. *Am J Physiol Heart Circ Physiol*, 291(3): H1138-1146, 2006.
  51. Suenaga M, Kaneko Y, Kadokawa J, Nishikawa T, Mori H, Tabata M: Amphiphilic poly(N-propargylamide) with galactose and lauryloyl groups: synthesis and properties. *Macromol Biosci*, 6(12): 1009-1018, 2006.
  52. Ben Ammar Y, Takeda S, Sugawara M, Miyano M, Mori H, Wakabayashi S: Crystallization and preliminary crystallographic analysis of the human calcineurin homologous protein CHP2 bound to the cytoplasmic region of the Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1. *Acta Cryst. F*, F61: 956-958, 2005.
  53. Chen J, Zhao M, Rao R, Inoue H, Hao CM: C/EBP {beta} and its binding element are required for NF{kappa}B-induced COX2 expression following hypertonic stress. *J Biol Chem*, 280(16): 16354-16359, 2005.
  54. Cherukuri DP, Goulet AC, Inoue H, Nelson MA: Selenomethionine regulates cyclooxygenase-2 (COX-2) expression through nuclear factor-kappa B (NF-kappaB) in colon cancer cells. *Cancer Biol Ther*, 4(2): 175-180, 2005.
  55. Cho CH, Kim KE, Byun J, Jang HS, Kim DK, Baluk P, Baffert F, Lee GM, Mochizuki N, Kim J, Jeon BH, McDonald DM, Koh GY: Long-term and sustained COMP-Ang1 induces long-lasting vascular enlargement and enhanced blood flow. *Circ Res*, 97(1): 86-94, 2005.
  56. Fujii T, Nagaya N, Iwase T, Murakami S, Miyahara Y, Nishigami K, Ishibashi-Ueda H, Shirai M, Itoh T, Ishino K, Sano S, Kangawa K, Mori H: Adrenomedullin enhances therapeutic potency of bone marrow transplantation for myocardial infarction in rats. *Am J Physiol Heart Circ Physiol*, 288(3): H1444-1450, 2005.
  57. Fujita H, Fukuhara S, Sakurai A, Yamagishi A, Kamioka Y, Nakaoka Y, Masuda M, Mochizuki N: Local activation of Rap1 contributes to directional vascular endothelial cell migration accompanied by extension of microtubules on which RAP1, a Rap1-associating molecule, localizes. *J Biol Chem*, 280(6): 5022-5031, 2005.
  58. Fukuhara S, Sakurai A, Sano H, Yamagishi A, Somekawa S, Takakura N, Saito Y, Kangawa K, Mochizuki N: Cyclic AMP potentiates vascular endothelial cadherin-mediated cell-cell contact to

- enhance endothelial barrier function through an Epac-Rap1 signaling pathway. *Mol Cell Biol*, 25(1): 136-146, 2005.
59. Hattan N, Kawaguchi H, Ando K, Kuwabara E, Fujita J, Murata M, Suematsu M, Mori H, Fukuda K: Purified cardiomyocytes from bone marrow mesenchymal stem cells produce stable intracardiac grafts in mice. *Cardiovasc Res*, 65(2): 334-344, 2005.
  60. Hirata A, Minamino T, Asanuma H, Sanada S, Fujita M, Tsukamoto O, Wakeno M, Myoishi M, Okada K, Koyama H, Komamura K, Takashima S, Shinozaki Y, Mori H, Tomoike H, Hori M, Kitakaze M: Erythropoietin just before reperfusion reduces both lethal arrhythmias and infarct size via the phosphatidylinositol-3 kinase-dependent pathway in canine hearts. *Cardiovasc Drugs Ther*, 19(1): 33-40, 2005.
  61. Ichimaru T, Sato E, Tanaka E, Mori H, Kawai T, Sato S, Takayama K: Quasi-monochromatic fine polycapillary imaging utilizing a computed radiography system. *Bull. Health, Sci. Hiroasaki*, 4: 83-91, 2005.
  62. Ichimaru T, Yamadera A, Sato E, Tanaka E, Mori H, Kawai T, Sato S, Takayama K: Cone-beam K-edge angiography utilizing cerium x-ray tube in conjunction with cerium oxide filter. *Bull. Health, Sci. Hiroasaki*, 4: 93-100, 2005.
  63. Inoue S, Hori S, Adachi T, Miyazaki K, Kyotani S, Fukuda K, Mori H, Nakazawa H, Aikawa N, Ogawa S: Flow-independent myocardial ischemia induced by endothelin-1: an NADH fluorescence analysis. *J Cardiovasc Pharmacol*, 46(6): 810-816, 2005.
  64. Iwata Y, Shigekawa M, Wakabayashi S: Cardiac syntrophin isoforms: species-dependent expression, association with dystrophin complex and subcellular localization. *Mol Cell Biochem*, 268(1-2): 59-66, 2005.
  65. Katanosaka Y, Iwata Y, Kobayashi Y, Shibasaki F, Wakabayashi S, Shigekawa M: Calcineurin inhibits Na<sup>+</sup>/Ca<sup>2+</sup> exchange in phenylephrine-treated hypertrophic cardiomyocytes. *J Biol Chem*, 280(7): 5764-5772, 2005.
  66. Kawada T, Yamazaki T, Akiyama T, Shishido T, Mori H, Sugimachi M: Myocardial interstitial choline and glutamate levels during acute myocardial ischaemia and local ouabain administration. *Acta Physiol Scand*, 184(3): 187-193, 2005.
  67. Kitagawa H, Yamazaki T, Akiyama T, Sugimachi M, Sunagawa K, Mori H: Microdialysis separately monitors myocardial interstitial myoglobin during ischemia and reperfusion. *Am J Physiol Heart Circ Physiol*, 289(2): H924-930, 2005.
  68. Komatsu K, Buchanan FG, Katkuri S, Morrow JD, Inoue H, Otaka M, Watanabe S, DuBois RN: Oncogenic potential of MEK1 in rat intestinal epithelial cells is mediated via cyclooxygenase-2. *Gastroenterology*, 129(2): 577-590, 2005.
  69. Kuroko Y, Fujii T, Yamazaki T, Akiyama T, Ishino K, Sano S, Mori H: Contribution of catechol O-methyltransferase to the removal of accumulated interstitial catecholamines evoked by myocardial ischemia. *Neurosci Lett*, 388(2): 61-64, 2005.
  70. Lim WC, Park M, Bahn JJ, Inoue H, Lee YJ: Hypertonic sodium chloride induction of cyclooxygenase-2 occurs independently of NF-kappaB and is inhibited by the glucocorticoid receptor in A549 cells. *FEBS Lett*, 579(24): 5430-5436, 2005.
  71. Marwaha V, Chen YH, Helms E, Arad S, Inoue H, Bord E, Kishore R, Sarkissian RD, Gilchrest BA, Goukassian DA: T-oligo treatment decreases constitutive and UVB-induced COX-2 levels

- through p53- and NFkappaB-dependent repression of the COX-2 promoter. *J Biol Chem*, 280(37): 32379-32388, 2005.
72. Na HK, Inoue H, Surh YJ: ET-18-O-CH3-induced apoptosis is causally linked to COX-2 upregulation in H-ras transformed human breast epithelial cells. *FEBS Lett*, 579(27): 6279-6287, 2005.
  73. Nagaya N, Kangawa K, Itoh T, Iwase T, Murakami S, Miyahara Y, Fujii T, Uematsu M, Ohgushi H, Yamagishi M, Tokudome T, Mori H, Miyatake K, Kitamura S: Transplantation of mesenchymal stem cells improves cardiac function in a rat model of dilated cardiomyopathy. *Circulation*, 112(8): 1128-1135, 2005.
  74. Nagaya N, Mori H, Murakami S, Kangawa K, Kitamura S: Adrenomedullin: angiogenesis and gene therapy. *Am J Physiol Regul Integr Comp Physiol*, 288(6): R1432-1437, 2005.
  75. Obara H, Sato E, Hayasi Y, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Takayama K, Ido H: Superposition of x-ray spectra using a brass-target plasma triode. *SPIE*, 5920(59200W): 1-8, 2005.
  76. Obara H, Sato E, Tanaka E, Mori H, Kawai T, Sato S, Ojima H, Takayama K, Ido H: Superposition of x-ray spectra using double-target plasma triode. *SPIE*, 5580: 824-831, 2005.
  77. Okawa T, Naomoto Y, Nobuhisa T, Takaoka M, Motoki T, Shirakawa Y, Yamatsuji T, Inoue H, Ouchida M, Gunduz M, Nakajima M, Tanaka N: Heparanase is involved in angiogenesis in esophageal cancer through induction of cyclooxygenase-2. *Clin Cancer Res*, 11(22): 7995-8005, 2005.
  78. Park SW, Sung MW, Heo DS, Inoue H, Shim SH, Kim KH: Nitric oxide upregulates the cyclooxygenase-2 expression through the cAMP-response element in its promoter in several cancer cell lines. *Oncogene*, 24(44): 6689-6698, 2005.
  79. Sagae M, Sato E, Obara H, Tanaka E, Mori H, Kawai T, Sato S, Ojima H, Takayama K, Ido H: Intense quasi-monochromatic flash x-ray generator utilizing molybdenum-target diode. *SPIE*, 5580: 674-680, 2005.
  80. Sagae M, Sato E, Tanaka E, Hayasi Y, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H: Quasi-Monochromatic X-Ray Generator Utilizing Graphite Cathode Diode with Transmission-Type Molybdenum Target. *Jpn. J. Appl. Phys.*, 44(1A): 446-449, 2005.
  81. Sato E, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Ojima H, Takayama K, Ido H: Quasi-monochromatic cerium flash angiography. *SPIE*, 5580: 146-152, 2005.
  82. Sato E, Hayashi Y, Germer R, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Ichimaru T, Takayama K, Onagawa J, Ido H: Monochromatic flash x-ray generator utilizing a disk-cathode silver tube. *Opt. Eng.*, 44(9): 6, 2005.
  83. Sato E, Hayasi Y, Germer R, Kimura K, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Ido H: Enhanced K-edge plasma angiography achieved with tungsten K $\alpha$  rays utilizing gadolinium-based contrast media. *SPIE*, 5920(592012): 1-8, 2005.
  84. Sato E, Hayasi Y, Germer R, Kimura K, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Ido H: Energy-selective gadolinium angiography utilizing a stroboscopic x-ray generator. *SPIE*, 5920(59200V): 1-8, 2005.
  85. Sato E, Hayasi Y, Germer R, Obara H, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Ido H: Preliminary study for producing higher harmonic hard x-rays from weakly ionized

- copper plasma. SPIE, 5920(59200U): 1-7, 2005.
86. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Ojima H, Takayama K, Ido H: Weakly ionized linear plasma x-ray generator with molybdenum-target triode. SPIE, 5580: 535-542, 2005.
  87. Sato E, Hayasi Y, Kimura K, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Onogawa J, Ido H: Enhanced K-edge Angiography Utilizing Tantalum Plasma X-ray Generator in Conjunction with Gadolinium-Based Contrast Media. Jpn. J. Appl. Phys., 44(12): 8716-8721, 2005.
  88. Sato E, Sagae M, Komatsu M, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Ojima H, Takayama K, Ido H: Monochromatic flash x-ray generator utilizing copper-target diode. SPIE, 5580: 579-585, 2005.
  89. Sato E, Sagae M, Obara H, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Ojima H, Takayama K, Ido H: Demonstration of flash K-edge angiography utilizing gadolinium-based contrast medium. SPIE, 5580: 817-823, 2005.
  90. Sato E, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H: Compact monochromatic flash x-ray generator utilizing a disk-cathode molybdenum tube. Med. Phys., 32(1): 49-54, 2005.
  91. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Ichimaru T, Takayama K, Ido H: Monochromatic x-ray generator utilizing angle dependence of bremsstrahlung x-ray distribution. SPIE, 5918(591819): 1-7, 2005.
  92. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Ido H: High-speed K-edge angiography achieved with tantalum K-series characteristic x rays (Honorable Mention Poster Award). SPIE, 5745: 810-817, 2005.
  93. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Sato S, Takayama K, Ido H: Preliminary experiment for producing higher harmonic x rays utilizing copper plasma triode. 原子核研究, 49(5): 61-67, 2005.
  94. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Takahashi K, Sato S, Takayama K: Measurement of cerium x-ray spectra using a cerium oxide powder filter and enhanced K-edge angiography. Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci., 40: 9-15, 2005.
  95. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Takahashi K, Sato S, Takayama K: X-ray spectra from characteristic x-ray generator with a molybdenum tube. Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci., 40: 1-7, 2005.
  96. Sato E, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, Yamadera A, Sato S, Ito F, Takayama K, Onogawa J, Ido H: Variations in Cerium X-ray Spectra and Enhanced K-Edge Angiography. Jpn. J. Appl. Phys., 44(11): 8204-8209, 2005.
  97. Sato E, Tanaka E, Mori H, Kawai T, Sato S, Ojima H, Takayama K, Ido H: Energy-selective high-speed radiography utilizing stroboscopic x-ray generator. SPIE, 5580: 765-771, 2005.
  98. Sato E, Tanaka E, Mori H, Kawai T, Sato S, Takayama K: Clean monochromatic x-ray irradiation from weakly ionized linear copper plasma. Opt. Eng., 44(049002): 1-6, 2005.
  99. Sato E, Tanaka E, Mori H, Kawai T, Sato S, Takayama K: High-speed enhanced K-edge angiography utilizing cerium plasma x-ray generator. Opt. Eng., 44(049001): 1-6, 2005.
  100. Sato E, Tanaka E, Mori H, Kawakami H, Kawai T, Inoue T, Ogawa A, Sato S, Ichimaru T, Takayama K, Ido H: Enhanced magnification angiography including phase-contrast effect using a 100- $\mu$ m focus x-ray tube. SPIE, 5918(591811): 1-9, 2005.

101. Sato E, Yamadera A, Ichimaru T, Tanaka E, Mori H, Kawai T, Inoue T, Ogawa A, et al.: Conventional Enhanced K-edge angiography Utilizing cerium x-ray generator. *原子核研究*, 49: 69-74, 2005.
102. Sato E, Yamadera A, Tanaka E, Mori H, Kawai T, Ito F, Inoue T, Ogawa A, Sato S, Takayama K, Onagawa J, Ido H: X-ray spectra from a cerium target and their application to cone beam K-edge angiography. *Opt. Eng.*, 44(096502): 1-6, 2005.
103. Schwenke DO, Pearson JT, Tsuchimochi H, Mori H, Shirai M: Exogenous nitric oxide centrally enhances pulmonary reactivity in the normal and hypertensive rat. *Clin Exp Pharmacol Physiol*, 32(11): 952-959, 2005.
104. Somekawa S, Fukuhara S, Nakaoka Y, Fujita H, Saito Y, Mochizuki N: Enhanced functional gap junction neofunction by protein kinase A-dependent and Epac-dependent signals downstream of cAMP in cardiac myocytes. *Circ Res*, 97(7): 655-662, 2005.
105. Takeda S: Crystal structure of troponin and the molecular mechanism of muscle regulation. *J Electron Microsc (Tokyo)*, 54(suppl\_1): i35-i41, 2005.
106. Woo KJ, Jeong YJ, Inoue H, Park JW, Kwon TK: Chrysin suppresses lipopolysaccharide-induced cyclooxygenase-2 expression through the inhibition of nuclear factor for IL-6 (NF-IL6) DNA-binding activity. *FEBS Lett*, 579(3): 705-711, 2005.
107. Wu C, Wang C, Tseng C, Chen H, Wu M, Lin J, Inoue H, Chen G: Helicobacter pylori promote gastric cancer cells invasion through a NF- $\kappa$ B and COX-2-mediated pathway. *World J Gastroenterol*, 11(21): 3197-3203, 2005.
108. Yada T, Shimokawa H, Hiramatsu O, Kajita T, Shigeto F, Tanaka E, Shinozaki Y, Mori H, Kiyooka T, Katsura M, Ohkuma S, Goto M, Ogasawara Y, Kajiya F: Beneficial effect of hydroxyfasudil, a specific Rho-kinase inhibitor, on ischemia/reperfusion injury in canine coronary microcirculation in vivo. *J Am Coll Cardiol*, 45(4): 599-607, 2005.
109. Yokota C, Kuge Y, Inoue H, Tamaki N, Minematsu K: Bilateral induction of the S-100A9 gene in response to spreading depression is modulated by the cyclooxygenase-2 activity. *J Neurol Sci*, 234(1-2): 11-16, 2005.
110. Akazawa H, Kudoh S, Mochizuki N, Takekoshi N, Takano H, Nagai T, Komuro I: A novel LIM protein Cal promotes cardiac differentiation by association with CSX/NKX2-5. *J Cell Biol*, 164(3): 395-405, 2004.
111. 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(1): R161-166, 2004.
112. 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(7): 497-503, 2004.
113. Asanuma H, Minamino T, Sanada S, Takashima S, Ogita H, Ogai A, Asakura M, Liao Y, Asano Y, Shintani Y, Kim J, Shinozaki Y, Mori H, Node K, Kitamura S, Tomoike H, Hori M, Kitakaze M:  $\beta$ -adrenoceptor blocker carvedilol provides cardioprotection via an adenosine-dependent mechanism in ischemic canine hearts. *Circulation*, 109(22): 2773-2779, 2004.
114. Asanuma H, Sanada S, Ogai A, Minamino T, Takashima S, Asakura M, Ogita H, Shinozaki Y, Mori H, Node K, Tomoike H, Hori M, Kitakaze M: Methotrexate and MX-68, a new derivative of methotrexate, limit infarct size via

- adenosine-dependent mechanisms in canine hearts. *J Cardiovasc Pharmacol*, 43(4): 574-579, 2004.
115. Chang YJ, Wu MS, Lin JT, Sheu BS, Muta T, Inoue H, Chen CC: Induction of cyclooxygenase-2 overexpression in human gastric epithelial cells by *Helicobacter pylori* involves TLR2/TLR9 and c-Src-dependent nuclear factor-kappaB activation. *Mol Pharmacol*, 66(6): 1465-1477, 2004.
116. Chen BC, Yu CC, Lei HC, Chang MS, Hsu MJ, Huang CL, Chen MC, Sheu JR, Chen TF, Chen TL, Inoue H, Lin CH: Bradykinin B2 receptor mediates NF-kappaB activation and cyclooxygenase-2 expression via the Ras/Raf-1/ERK pathway in human airway epithelial cells. *J Immunol*, 173(8): 5219-5228, 2004.
117. Endo A, Surks HK, Mochizuki S, Mochizuki N, Mendelsohn ME: Identification and characterization of zipper-interacting protein kinase as the unique vascular smooth muscle myosin phosphatase-associated kinase. *J Biol Chem*, 279(40): 42055-42061, 2004.
118. Fujii T, Yamazaki T, Akiyama T, Sano S, Mori H: Extraneuronal enzymatic degradation of myocardial interstitial norepinephrine in the ischemic region. *Cardiovasc Res*, 64(1): 125-131, 2004.
119. Fujii T, Yamazaki T, Akiyama T, Sano S, Mori H: In vivo assessment of catechol O-methyltransferase activity in rabbit skeletal muscle. *Auton Neurosci*, 111(2): 140-143, 2004.
120. Hsamitsu T, Pang T, Shigekawa M, Wakabayashi S: Dimeric interaction between the cytoplasmic domains of the Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1 revealed by symmetrical intermolecular cross-linking and selective co-immunoprecipitation. *Biochemistry*, 43(34): 11135-11143, 2004.
121. Bhida J, Hashimoto T, Hashimoto Y, Nishiwaki S, Iguchi T, Harada S, Sugaya T, Matsuzaki H, Yamamoto R, Shiota N, Okunishi H, Kihara M, Umemura S, Sugiyama F, Yagami K, Kasuya Y, Mochizuki N, Fukamizu A: Regulatory roles for APJ, a seven-transmembrane receptor related to angiotensin-type 1 receptor in blood pressure in vivo. *J Biol Chem*, 279(25): 26274-26279, 2004.
122. Iwata Y, Sampaolesi M, Shigekawa M, Wakabayashi S: Syntrophin is an actin-binding protein the cellular localization of which is regulated through cytoskeletal reorganization in skeletal muscle cells. *Eur J Cell Biol*, 83(10): 555-565, 2004.
123. Kaji T, Kuge Y, Yokota C, Tagaya M, Inoue H, Shiga T, Minematsu K, Tamaki N: Characterisation of [123I]iomazenil distribution in a rat model of focal cerebral ischaemia in relation to histopathological findings. *Eur J Nucl Med Mol Imaging*, 31(1): 64-70, 2004.
124. Kamioka Y, Fukuhara S, Sawa H, Nagashima K, Masuda M, Mochizuki N: A novel dynamin-associating molecule, formin-binding protein 17, induces tubular membrane invaginations and participates in endocytosis. *J Biol Chem*, 279(38): 40091-40099, 2004.
125. Kokubo Y, Inamoto N, Tomoike H, Kamide K, Takiuchi S, Kawano Y, Tanaka C, Katanosaka Y, Wakabayashi S, Shigekawa M, Hishikawa O, Miyata T: Association of genetic polymorphisms of sodium-calcium exchanger 1 gene, NCX1, with hypertension in a Japanese general population. *Hypertens Res*, 27(10): 697-702, 2004.
126. Nagaya N, Fujii T, Iwase T, Ohgushi H, Itoh T, Uematsu M, Yamagishi M, Mori H, Kangawa K, Kitamura S: Intravenous administration of mesenchymal stem cells improves cardiac function in rats with acute myocardial infarction through angiogenesis and myogenesis. *Am J Physiol Heart Circ Physiol*, 287(6): H2670-2676, 2004.

127. Nagaya N, Kyotani S, Uematsu M, Ueno K, Oya H, Nakanishi N, Shirai M, Mori H, Miyatake K, Kangawa K: Effects of adrenomedullin inhalation on hemodynamics and exercise capacity in patients with idiopathic pulmonary arterial hypertension. *Circulation*, 109(3): 351-356, 2004.
128. Nakatani K, Yamakuni T, Kondo N, Arakawa T, Oosawa K, Shimura S, Inoue H, Ohizumi Y: gamma-Mangostin inhibits inhibitor-kappaB kinase activity and decreases lipopolysaccharide-induced cyclooxygenase-2 gene expression in C6 rat glioma cells. *Mol Pharmacol*, 66(3): 667-674, 2004.
129. Nshimori T, Inoue H, Hirata Y: Involvement of the 3'-untranslated region of cyclooxygenase-2 gene in its post-transcriptional regulation through the glucocorticoid receptor. *Life Sci*, 74(20): 2505-2513, 2004.
130. Nbrata GD, Callegari E, Inoue H, Catapano AL: HDL3 induces cyclooxygenase-2 expression and prostacyclin release in human endothelial cells via a p38 MAPK/CRE-dependent pathway: effects on COX-2/PGI-synthase coupling. *Arterioscler Thromb Vasc Biol*, 24(5): 871-877, 2004.
131. Nbrata GD, Pirillo A, Pellegatta F, Inoue H, Catapano AL: Native LDL and oxidized LDL modulate cyclooxygenase-2 expression in HUVECs through a p38-MAPK, NF-kappaB, CRE dependent pathway and affect PGE2 synthesis. *Int J Mol Med*, 14(3): 353-359, 2004.
132. Ohki T, Mikhailenko SV, Morales MF, Onishi H, Mochizuki N: Transmission of force and displacement within the myosin molecule. *Biochemistry*, 43(43): 13707-13714, 2004.
133. Onishi H, Mochizuki N, Morales MF: On the myosin catalysis of ATP hydrolysis. *Biochemistry*, 43(13): 3757-3763, 2004.
134. Pang T, Hisamitsu T, Mori H, Shigekawa M, Wakabayashi S: Role of calcineurin B homologous protein in pH regulation by the Na<sup>+</sup>/H<sup>+</sup> exchanger 1: tightly bound Ca<sup>2+</sup> ions as important structural elements. *Biochemistry*, 43(12): 3628-3636, 2004.
135. Pearson JT, Shirai M, Ito H, Tokunaga N, Tsuchimochi H, Nishiura N, Schwenke DO, Ishibashi-Ueda H, Akiyama R, Mori H, Kangawa K, Suga H, Yagi N: In situ measurements of crossbridge dynamics and lattice spacing in rat hearts by x-ray diffraction: sensitivity to regional ischemia. *Circulation*, 109(24): 2976-2979, 2004.
136. Sagae M, Sato E, Hayashi Y, Tanaka E, Mori H, Kawai T, Obara H, Ichimaru T, Takayama K, Ido H: Monochromatic polycapillary imaging utilizing a computed radiography system. *Igaku Butsuri*, 24(2): 78-85, 2004.
137. Sanada S, Asanuma H, Minamino T, Node K, Takashima S, Okuda H, Shinozaki Y, Ogai A, Fujita M, Hirata A, Kim J, Asano Y, Mori H, Tomoike H, Kitamura S, Hori M, Kitakaze M: Optimal windows of statin use for immediate infarct limitation: 5'-nucleotidase as another downstream molecule of phosphatidylinositol 3-kinase. *Circulation*, 110(15): 2143-2149, 2004.
138. Sato E, Hayasi Y, Germer R, Koorikawa Y, Murakami K, Tanaka E, Mori H, Kawai T, Ichimaru T, Obata F, Takahashi K, Sato S, Takayama K, Ido H: Weakly ionized cerium plasma radiography. *SPIE*, 5210: 12-21, 2004.
139. Sato E, Hayasi Y, Germer R, Murakami K, Koorikawa Y, Tanaka E, Mori H, Kawai T, Ichimaru T, Obata F, Takahashi K, Sato S, Takayama K, Ido H: Weakly ionized plasma flash x-ray generator and its distinctive characteristics. *SPIE*, 5196: 383-392, 2004.
140. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H:



- Quasi-monochromatic parallel radiography utilizing a computed radiography system. *J. Electron Spectroscopy and Related Phenomena*, 137-140: 705-711, 2004.
141. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H: Portable X-ray generator utilizing a cerium-target radiation tube for angiography. *J. Electron Spectroscopy and Related Phenomena*, 137-140: 699-704, 2004.
142. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Ido H: Sharp characteristic X-ray irradiation from weakly ionized linear plasma. *J. Electron Spectroscopy and Related Phenomena*, 137-140: 713-720, 2004.
143. Sato E, Hayasi Y, Tanaka E, Mori H, Kawai T, Ichimaru T, Obata F, Takahashi K, Sato S, Takayama K, Ido H: Quasi-monochromatic polycapillary imaging utilizing a computed radiography system. *SPIE*, 5196: 412-420, 2004.
144. Sato E, Obata F, Takahashi K, Sato S, Tanaka E, Mori H, Kawai T, Ichimaru T, Takayama K, Ido H: Extremely soft x-ray generator and its applications. *SPIE*, 5537: 38-44, 2004.
145. Sato E, Sagae M, Tanaka E, Hayasi Y, Germer R, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H: Quasi-Monochromatic Flash X-Ray Generator Utilizing Disk-Cathode Molybdenum Tube. *Jpn. J. Appl. Phys.*, 43(10): 7324-7328, 2004.
146. Sato E, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H: Bremsstrahlung x-ray spectra for enhanced K-edge angiography. *Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci.*, 39: 11-17, 2004.
147. Sato E, Tanaka E, Mori H, Kawai T, Ichimaru T, Sato S, Takayama K, Ido H: Demonstration of enhanced K-edge angiography using a cerium target x-ray generator. *Med Phys*, 31(11): 3017-3021, 2004.
148. Sato E, Tanaka E, Mori H, Kawai T, Ito F, Ichimaru T, Sato S, Takayama K, Ido H: Compact x-ray generator utilizing cerium-target tube for angiography. *SPIE*, 5537: 75-81, 2004.
149. Sato E, Yamadera A, Sagae M, Ichimaru T, Morino Y, Ikeda M, Sasaki C, Tanaka E, Mori H, Kawai T, Ito F, Sato S, al. e: Cerium x-ray spectra without filtering and their application to high-contrast angiography. *Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci.*, 39: 1-9, 2004.
150. Tōkunaga N, Nagaya N, Shirai M, Tanaka E, Ishibashi-Ueda H, Harada-Shiba M, Kanda M, Ito T, Shimizu W, Tabata Y, Uematsu M, Nishigami K, Sano S, Kangawa K, Mori H: Adrenomedullin gene transfer induces therapeutic angiogenesis in a rabbit model of chronic hind limb ischemia: benefits of a novel nonviral vector, gelatin. *Circulation*, 109(4): 526-531, 2004.
151. Yamagishi A, Masuda M, Ohki T, Onishi H, Mochizuki N: A novel actin bundling/filopodium-forming domain conserved in insulin receptor tyrosine kinase substrate p53 and missing in metastasis protein. *J Biol Chem*, 279(15): 14929-14936, 2004.
152. Yokota C, Kaji T, Kuge Y, Inoue H, Tamaki N, Minematsu K: Temporal and topographic profiles of cyclooxygenase-2 expression during 24 h of focal brain ischemia in rats. *Neurosci Lett*, 357(3): 219-222, 2004.
153. Yokota C, Kuge Y, Hasegawa Y, Inoue H, Tagaya M, Abumiya T, Kito G, Tamaki N, Minematsu K: Neuronal cyclooxygenase-2 expression during spreading depression and focal brain ischemia. *脳循環代謝*, 16(2): 89-95, 2004.
154. Yokota C, Kuge Y, Hasegawa Y, Inoue H, Tagaya M,

- Abumiya T, Kito G, Tamaki N, Minematsu K: Neuronal cyclooxygenase-2 induction associated with spreading depression and focal brain ischemia in primates, International Congress series 1264, (Ed by: 191-196, 2004.
155. Yshizaki H, Ohba Y, Parrini MC, Dulyaninova NG, Bresnick AR, Mochizuki N, Matsuda M: Cell type-specific regulation of RhoA activity during cytokinesis. *J Biol Chem*, 279(43): 44756-44762, 2004.
156. (proceeding). *Proc J Symp High Speed Photography and Photonics 2003*, 247-252, Morioka, 2003.
157. 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(2): 65-73, 2003.
158. Endo A, Fukuhara S, Masuda M, Ohmori T, Mochizuki N: Selective inhibition of vascular endothelial growth factor receptor-2 (VEGFR-2) identifies a central role for VEGFR-2 in human aortic endothelial cell responses to VEGF. *J Recept Signal Transduct Res*, 23(2-3): 239-254, 2003.
159. Han S, Inoue H, Flowers LC, Sidell N: Control of COX-2 gene expression through peroxisome proliferator-activated receptor gamma in human cervical cancer cells. *Clin Cancer Res*, 9(12): 4627-4635, 2003.
160. Inoue H, Taba Y, Miwa Y, Yokota C, Miyagi M, Sasaguri T: Induction of cyclooxygenase-2 expression by fluid shear stress in vascular endothelial cells. *Adv Exp Med Biol*, 525: 141-144, 2003.
161. Inoue H, Jiang XF, Katayama T, Osada S, Umesono K, Namura S: Brain protection by resveratrol and fenofibrate against stroke requires peroxisome proliferator-activated receptor alpha in mice. *Neurosci Lett*, 352(3): 203-206, 2003.
162. Kasahara H, Tanaka E, Fukuyama N, Sato E, Sakamoto H, Tabata Y, Ando K, Iseki H, Shinozaki Y, Kimura K, Kuwabara E, Koide S, Nakazawa H, Mori H: Biodegradable gelatin hydrogel potentiates the angiogenic effect of fibroblast growth factor 4 plasmid in rabbit hindlimb ischemia. *J Am Coll Cardiol*, 41(6): 1056-1062, 2003.
163. 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 Suppl 1: S111-114, 2003.
164. Kitagawa H, Yamazaki T, Akiyama T, Mori H, Sunagawa K: Effects of ketamine on exocytotic and non-exocytotic noradrenaline release. *Neurochem Int*, 42(3): 261-267, 2003.
165. Kogata N, Masuda M, Kamioka Y, Yamagishi A, Endo A, Okada M, Mochizuki N: Identification of Fer tyrosine kinase localized on microtubules as a platelet endothelial cell adhesion molecule-1 phosphorylating kinase in vascular endothelial cells. *Mol Biol Cell*, 14(9): 3553-3564, 2003.
166. Komatsu M, Sato E, Hayasi Y, Usuki T, Sato K, Tanaka E, Mori H, Ojima H, Takayama K, Ido H: Low-photon-energy plasma flash x-ray generator (LPFXG-2002). *SPIE*, 4948: 574-579, 2003.
167. Komatsu M, Sato E, Hayasi Y, Usuki T, Sato K, Tanaka E, Mori H, Ojima H, Takayama K, Ido H: Compact flash x-ray generator (MFXG-02) and its applications. *SPIE*, 4948: 640-645, 2003.
168. Nagaya N, Okumura H, Uematsu M, Shimizu W, Ono F, Shirai M, Mori H, Miyatake K, Kangawa K: Repeated inhalation of adrenomedullin ameliorates pulmonary hypertension and survival in monocrotaline rats. *Am J Physiol Heart Circ Physiol*, 285(5): H2125-2131, 2003.

169. Nagaya N, Kangawa K, Kanda M, Uematsu M, Horio T, Fukuyama N, Hino J, Harada-Shiba M, Okumura H, Tabata Y, Mochizuki N, Chiba Y, Nishioka K, Miyatake K, Asahara T, Hara H, Mori H: Hybrid cell-gene therapy for pulmonary hypertension based on phagocytosing action of endothelial progenitor cells. *Circulation*, 108(7): 889-895, 2003.
170. Obara H, Zuguchi M, Sato E, Tanaka E, Mori H, Usuki T, Sato K, Ojima H, Takayama K: Applications of stroboscopic x-ray generators to high-speed radiographies including biomedical applications. *SPIE*, 4948: 269-274, 2003.
171. Obara H, Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Usuki T, Sato K, Ojima H, Takayama K, Ido H: High speed stroboscopic x-ray generators and their image evaluations in medical radiography (proceeding). *Proc J Symp High Speed Photography and Photonics 2003*, 241-246, Morioka, 2003.
172. Ogita H, Kunimoto S, Kamioka Y, Sawa H, Masuda M, Mochizuki N: EphA4-mediated Rho activation via Vsm-RhoGEF expressed specifically in vascular smooth muscle cells. *Circ Res*, 93(1): 23-31, 2003.
173. Sato E, Sagae M, Komatsu M, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Usuki T, Sato K, Ojima H, Takayama K, Ido H: Compact quasi-monochromatic flash x-ray generator.
174. Sato E, Obata F, Takahashi K, Sato S, Tanaka E, Mori H, Kawai T, Ichimaru T, Takayama K: Development of an extremely soft x-ray generator. *Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci.*, 38: 23-29, 2003.
175. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Obara H, Ichimaru T, Takayama K, Ido H: Irradiation of intense characteristic x-rays from weakly ionized linear molybdenum plasma. *Igaku Butsuri*, 23(2): 123-131, 2003.
176. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Usuki T, Sato K, Ojima H, Takayama K, Ido H: New x-ray irradiations and their applications to monochromatic radiography. (Proceeding). *Proc J Symp High Speed Photography and Photonics*, 35-40, Morioka, 2003.
177. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Takayama K, Ido H: Quasi-monochromatic flash x-ray generator utilizing weakly ionized linear copper plasma. *Rev Sci Instrum*, 74(12): 5236-5240, 2003.
178. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Obata F: Quasi-monochromatic x-ray irradiation from weakly ionized linear nickel plasma. *Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci.*, 38: 13-22, 2003.
179. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Obara H, Obata F, Takahashi K, Usuki T, Sato K, Ojima H, Takayama K, Ido H: Intense monochromatic x-ray irradiation from weakly ionized linear plasma and flash radiography. (Proceeding). *Proc J Symp High Speed Photography and Photonics 2003*, 93-98, Morioka, 2003.
180. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Kawai T, Ichimaru T, Obara H, Obata F, Takahashi K, Sato S, Usuki T, Sato K, Ojima H, Takayama K, Ido H: Development of a weakly-ionized cerium plasma x-ray generator and its application to high speed angiography. (proceeding). *Proc J Symp High Speed Photography and Photonics 2003*, 261-266, Morioka, 2003.
181. Sato E, Hayashi Y, Gerner R, Tanaka E, Mori H, Kawai T, Obara H, Ichimaru T, Takayama K, Ido H: Intense Characteristic X-ray Irradiation from Weakly Ionized Linear Plasma and Applications. *Medical Imaging and Information Sciences (医用画像情報学*

- 会・MII), 20): 154-161, 2003.
182. Sato E, Germer RK, Hayasi Y, Tanaka E, Mori H, Kawai T, Usuki T, Sato K, Obara H, Zuguchi M, Ichimaru T, Ojima H, Takayama K, Ido H: Quasi-monochromatic parallel flash radiography achieved with a plane-focus x-ray tube. *SPIE*, 4948: 646-651, 2003.
  183. Sato E, Germer RK, Hayasi Y, Tanaka E, Mori H, Kawai T, Usuki T, Sato K, Obara H, Zuguchi M, Ichimaru T, Ojima H, Takayama K, Ido H: Plasma flash x-ray generator (PFXG-02). *SPIE*, 4948: 604-609, 2003.
  184. Sato E, Toriyabe H, Hayasi Y, Tanaka E, Mori H, Kawai T, Usuki T, Sato K, Obara H, Ichimaru T, Takayama K, Ido H, Tamakawa Y: Fundamental study on parallel-beam radiography using a polycapillary plate. *SPIE*, 4682: 298-310, 2002.
  185. Shinohara M, Terada Y, Iwamatsu A, Shinohara A, Mochizuki N, Higuchi M, Gotoh Y, Ihara S, Nagata S, Itoh H, Fukui Y, Jessberger R: SWAP-70 is a guanine-nucleotide-exchange factor that mediates signalling of membrane ruffling. *Nature*, 416(6882): 759-763, 2002.
  186. Shirai M, Pearson JT, Shimouchi A, Nagaya N, Tsuchimochi H, Ninomiya I, Mori H: Changes in functional and histological distributions of nitric oxide synthase caused by chronic hypoxia in rat small pulmonary arteries. *Br J Pharmacol*, 139(5): 899-910, 2003.
  187. Su X, Pang T, Wakabayashi S, Shigekawa M: Evidence for involvement of the putative first extracellular loop in differential volume sensitivity of the Na<sup>+</sup>/H<sup>+</sup> exchangers NHE1 and NHE2. *Biochemistry*, 42(4): 1086-1094, 2003.
  188. Taba Y, Miyagi M, Miwa Y, Inoue H, Takahashi-Yanaga F, Morimoto S, Sasaguri T: 15-deoxy-delta 12,14-prostaglandin J2 and laminar fluid shear stress stabilize c-IAP1 in vascular endothelial cells. *Am J Physiol Heart Circ Physiol*, 285(1): H38-46, 2003.
  189. Takeda S, Yamashita A, Maeda K, Maeda Y: Structure of the core domain of human cardiac troponin in the Ca (2+)-saturated form. *Nature*, 424(6944): 35-41, 2003.
  190. Takeda S, et al.: Crystal structure of troponin ternary complex. *Biophys. J.*, 82: 170a, 2002.
  191. Tokunaga N, Yamazaki T, Akiyama T, Sano S, Mori H: Acute limb ischemia does not facilitate but inhibits norepinephrine release from muscle sympathetic nerve endings in anesthetized rabbit. *J Cardiovasc Pharmacol*, 42 Suppl 1: S7-10, 2003.
  192. Tokunaga N, Yamazaki T, Akiyama T, Sano S, Mori H: In vivo monitoring of norepinephrine and its metabolites in skeletal muscle. *Neurochem Int*, 43(6): 573-580, 2003.
  193. Tokunaga N, Yamazaki T, Akiyama T, Mori H: Detection of 3-methoxy-4-hydroxyphenylglycol in rabbit skeletal muscle microdialysate. *J Chromatogr B Analyt Technol Biomed Life Sci*, 798(1): 163-166, 2003.
  194. Wakabayashi S, Hisamitsu T, Pang T, Shigekawa M: Mutations of Arg440 and Gly455/Gly456 oppositely change pH sensing of Na<sup>+</sup>/H<sup>+</sup> exchanger 1. *J Biol Chem*, 278(14): 11828-11835, 2003.
  195. Wakabayashi S, Hisamitsu T, Pang T, Shigekawa M: Kinetic dissection of two distinct proton binding sites in Na<sup>+</sup>/H<sup>+</sup> exchangers by measurement of reverse mode reaction. *J Biol Chem*, 278(44): 43580-43585, 2003.
  196. Yokota C, Kuge Y, Inoue H, Tagaya M, Kito G, Susumu T, Tamaki N, Minematsu K: Post-ischemic cyclooxygenase-2 expression is regulated by the extent of cerebral blood flow reduction in non-human primates. *Neurosci Lett*, 341(1): 37-40,

- 2003.
197. Yokota C, Inoue H, Kuge Y, Abumiya T, Tagaya M, Hasegawa Y, Ejima N, Tamaki N, Minematsu K: Cyclooxygenase-2 expression associated with spreading depression in a primate model. *J Cereb Blood Flow Metab*, 23(4): 395-398, 2003.
198. Yoshizaki H, Ohba Y, Kurokawa K, Itoh RE, Nakamura T, Mochizuki N, Nagashima K, Matsuda M: Activity of Rho-family GTPases during cell division as visualized with FRET-based probes. *J Cell Biol*, 162(2): 223-232, 2003.
199. Akiyama T, Yamazaki T, Mori H: Acetylcholinesterase inhibitor elicits muscarinic receptor-mediated cholinergic transmission in the rat adrenal medulla. *Adv in Beh Biol*, 53: 65-68, 2002.
200. Endo A, Nagashima K, Kurose H, Mochizuki S, Matsuda M, Mochizuki N: Sphingosine 1-phosphate induces membrane ruffling and increases motility of human umbilical vein endothelial cells via vascular endothelial growth factor receptor and CrkII. *J Biol Chem*, 277(26): 23747-23754, 2002.
201. Ginghammar B, Inoue H, Rafter JJ: Deoxycholic acid causes DNA damage in colonic cells with subsequent induction of caspases, COX-2 promoter activity and the transcription factors NF- $\kappa$ B and AP-1. *Carcinogenesis*, 23(5): 839-845, 2002.
202. Inoue H, Taba Y, Miwa Y, Yokota C, Miyagi M, Sasaguri T: Transcriptional and posttranscriptional regulation of cyclooxygenase-2 expression by fluid shear stress in vascular endothelial cells. *Arterioscler Thromb Vasc Biol*, 22(9): 1415-1420, 2002.
203. Itoh RE, Kurokawa K, Ohba Y, Yoshizaki H, Mochizuki N, Matsuda M: Activation of rac and cdc42 video imaged by fluorescent resonance energy transfer-based single-molecule probes in the membrane of living cells. *Mol Cell Biol*, 22(18): 6582-6591, 2002.
204. Kawada T, Yamazaki T, Akiyama T, Mori H, Inagaki M, Shishido T, Takaki H, Sugimachi M, Sunagawa K: Effects of brief ischaemia on myocardial acetylcholine and noradrenaline levels in anaesthetized cats. *Auton Neurosci*, 95(1-2): 37-42, 2002.
205. Kawada T, Yamazaki T, Akiyama T, Mori H, Uemura K, Miyamoto T, Sugimachi M, Sunagawa K: Disruption of vagal efferent axon and nerve terminal function in the postischemic myocardium. *Am J Physiol Heart Circ Physiol*, 283(6): H2687-2691, 2002.
206. Kitagawa H, Yamazaki T, Akiyama T, Yahagi N, Kawada T, Mori H, Sunagawa K: Modulatory effects of ketamine on catecholamine efflux from in vivo cardiac sympathetic nerve endings in cats. *Neurosci Lett*, 324(3): 232-236, 2002.
207. Koide Y, Hasegawa T, Takahashi A, Endo A, Mochizuki N, Nakagawa M, Nishida A: Development of novel EDG3 antagonists using a 3D database search and their structure-activity relationships. *J Med Chem*, 45(21): 4629-4638, 2002.
208. Kuwabara E, Furuyama F, Ito K, Tanaka E, Hattan N, Fujikura H, Kimura K, Goto T, Hayashi T, Taira H, Shinozaki Y, Umetani K, Hyodo K, Tanioka K, Mochizuki R, Kawai T, Koide S, Mori H: Inhomogeneous vasodilatory responses of rat tail arteries to heat stress: evaluation by synchrotron radiation microangiography. *Jpn J Physiol*, 52(5): 403-408, 2002.
209. Nagashima K, Endo A, Ogita H, Kawana A, Yamagishi A, Kitabatake A, Matsuda M, Mochizuki N: Adaptor protein Crk is required for ephrin-B1-induced membrane ruffling and focal complex assembly of human aortic endothelial cells. *Mol Biol Cell*, 13(12): 4231-4242, 2002.

210. Ogita H, Node K, Asanuma H, Sanada S, Liao Y, Takashima S, Asakura M, Mori H, Shinozaki Y, Hori M, Kitakaze M: Amelioration of ischemia- and reperfusion-induced myocardial injury by the selective estrogen receptor modulator, raloxifene, in the canine heart. *J Am Coll Cardiol*, 40(5): 998-1005, 2002.
211. Onishi H, Ohki T, Mochizuki N, Morales MF: Early stages of energy transduction by myosin: roles of Arg in switch I, of Glu in switch II, and of the salt-bridge between them. *Proc Natl Acad Sci U S A*, 99(24): 15339-15344, 2002.
212. Pang T, Wakabayashi S, Shigekawa M: Expression of calcineurin B homologous protein 2 protects serum deprivation-induced cell death by serum-independent activation of Na<sup>+</sup>/H<sup>+</sup> exchanger. *J Biol Chem*, 277(46): 43771-43777, 2002.
213. Pearson JT, Yagi N, Shirai M, Nishiura N, Kanada M, Tokunaga N, Suga H, Mori H: Future investigations of micro-macro level cardiac functions using X-ray diffraction. *BME*, 16: 29-35, 2002.
214. Post GR, Swiderski C, Waldrop BA, Salty L, Glembotski CC, Wolthuis RM, Mochizuki N: Guanine nucleotide exchange factor-like factor (Rlf) induces gene expression and potentiates alpha 1-adrenergic receptor-induced transcriptional responses in neonatal rat ventricular myocytes. *J Biol Chem*, 277(18): 15286-15292, 2002.
215. Sato E, Hayasi Y, Germer R, Tanaka E, Mori H, Obara H, Ichimaru T, Takayama K: New x-ray irradiation from weakly ionized linear plasma. *Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci.*, 37: 13-22, 2002.
216. Sato E, Hayasi Y, Tanaka E, Mori H, Kawai T, Usuki T, Sato K, Obara H, Ichimaru T, Takayama K, Ido H, Tamakawa Y: Quasi-monochromatic radiography using a high-intensity quasi-x-ray laser generator. *SPIE*, 4682: 538-548, 2002.
217. Sato E, Hayasi Y, Tanaka E, Mori H, Komatsu M, Obara H, Ichimaru T, Takayama K: Quasi-monochromatic parallel radiography achieved with a plane-focus x-ray tube. *Ann. Rep. Iwate Med. Univ. Lib. Arts and Sci.*, 37: 23-32, 2002.
- 【総説】なし
- 【著書】
1. Takeda S: Preparation of protein crystals for X-ray structural study, *Method in Molecular Medicine: Cardiovascular Disease*, (Ed by Wang Q), Humana Press, 129: 291-303, 2006.
  2. Mori H, Matsuda H: *Cardiovascular Regeneration Therapies Using Tissue Engineering Approaches*. Springer, Tokyo, p248, 2005.
  3. Wakabayashi S, Pang T, Hisamitsu T, Shigekawa M: Two Fundamental Regulatory Factors of the Na<sup>+</sup>/H<sup>+</sup> Exchangers: The Proton and CHP. *The Sodium-Hydrogen Exchange From Molecule to its Role in Disease* (Ed by Karmazyn M, Avkiran M, Fliegel L), Kluwer Academic Publishers, 2003.
- (研究業績「和文」)
- 【原著】
1. 井上裕康: PPAR とプロスタグランジン. *医学のあゆみ*, 220(1), 93-98, 2007.
  2. 井上裕康, 中田理恵子, 竹内悠, 塚本朋子, 堀田真理子, 名村尚武: 植物性ポリフェノールによる核内受容体 PPAR の活性化. *脂質生化学研究*, 48: 131-134, 2006.
  3. 久光隆, 若林繁夫: トランスポータ研究のいま—Na<sup>+</sup>/H<sup>+</sup>交換輸送体を中心に. *化学と生物*, 44(1): 56-65, 2006.
  4. 井上裕康: PPARs の内因性リガンド. *日本臨牀*, 63(4): 578-583, 2005.

5. 井上裕康: 「フレンチパラドックス」と核内受容体 PPAR との新しい接点. 化学と生物, 43(9): 619-624, 2005.
  6. 佐藤英一, 林保臣, 小原春雄, 田中越郎, 盛英三, 河合敏昭, 井上敬, 小川彰, 佐藤成大, 市丸俊夫, 高山和喜, 白杵辰巳, 佐藤公悦: シンクロトロンにかかわる医用単色 X 線装置の開発と応用. 医学物理, 25: 25-38, 2005.
  7. 井上裕康: 赤ワインに含まれるポリフェノール・レスベラトロールに関する最近の話題. ビタミン, 78(12): 621-623, 2004.
  8. 岩田裕子, 片野坂友紀, 若林繁夫, 重川宗一: Ca<sup>2+</sup>-permeable カチオンチャネルと筋変性. ゲノム医学, 4(1): 35-43, 2004.
  9. 若林繁夫, 隆久, 天翔 彪: Na<sup>+</sup>/H<sup>+</sup>交換輸送体: 生体プロトン環境を制御するイオントランスポーター. Otolaryngology Japan (日本耳科学会), 14(3): 262-267, 2004.
  10. 増田道隆, 小形尚子, 望月直樹: PECAM-1 を介した血管内皮細胞のメカノセンシング. 日薬理誌, 124: 311-318, 2004.
  11. 秋山剛, 山崎登自, 盛英三: 虚血部心臓交感神経終末におけるノルエピネフリン動態. 呼吸と循環, 51(3): 269-275, 2003.
  12. 井上裕康: 核内受容体 PPAR を介する誘導型シクロオキシゲナーゼの発現調節に関する研究. ビタミン, 77(8): 449-458, 2003.
  13. 増田道隆: ずり応力センサー分子としての PECAM-1. 血管医学, 4: 259-266, 2003.
  14. 若林繁夫, 天翔 彪, 重川宗一: Na<sup>+</sup>/H<sup>+</sup>交換輸送体の構造と機能—活性に必須な因子としての CHP. 心臓, 34: 333-340, 2002.
- 【総説】
1. 菅弘之, 盛英三, 馬場嘉信, 杉町勝. ナノメディスン・プロジェクト—厚生労働省指定型ナノメディスン・プロジェクトを中心にして—. 東京: 先端医学社; 2006.
  2. 盛英三, 武田壮一, 五十嵐智子, 柴田洋之: 特発性心筋症の原因解明と治療法開発に向けた構造生物学的アプローチ. 医学のあゆみ, 217(8): 819-824, 2006.
  3. 盛英三, 武田壮一, 若林繁夫, 井上裕康, ユーセフベンアマー, 松原孝宜, 五十嵐智子, 柴田洋之: 疾患関連蛋白のサブナノ構造イメージングと分子標的薬剤の開発; ナノイメージング構造. 分子心血管病, 先端医学社, 東京, 2006.
  4. 盛英三, 望月直樹, 武田壮一, 井上裕康, 中村俊, 土屋利江: 特集: ナノテクノロジーと医療—ナノレベルイメージングによる分子構造と機能の解析. 日本臨床, 64: 358-364, 2006.
  5. 宮原義典, 盛英三, 永谷憲歳: 特集Ⅱ 第 68 回日本循環器学会学術集会 2. 日本型移植医療をどう作るか—細胞・組織・臓器—心血管疾患における細胞—遺伝子ハイブリッド治療. 循環器専門医, 13: 33-39, 2005.
  6. 河合敏昭, 鈴木克彦, 高瀬欣治, 川上博己, 望月亮, 山口孝一, 田中越郎, 笠原啓史, 福山直人, 篠崎芳郎, 盛英三, 東将浩, 西上和宏, 田中良一, 内藤博昭: 微小血管撮影装置開発と再生血管の可視化. Radioisotopes, 52(1): 53-56, 2003.
  7. 前田雄一郎, 武田壮一, 森本幸生, 大槻磐男: トロポニンの結晶構造とカルシウム調節のメカニズム. 蛋白質・核酸・酵素, 48(14): 1877-1889, 2003.
  8. 武田壮一: 筋収縮・弛緩を調節するタンパク質トロポニンの結晶構造, *Bio Medical Quick Review Net*, メディカルドゥ, 8, 2003.
  9. 武田壮一, 前田雄一郎: ヒト心筋トロポニンの結晶構造. SPring-8 利用者情報, 最近の研究から, 8(8), 2003.
  10. 武田壮一, 前田雄一郎: トロポニンの結晶構造と筋収縮調節機構. 生化学, 75(12): 1540-1545, 2003.

## 【著書】

1. 知久正明, 西上和宏, 佐藤英一, 盛英三: 放射光および普及型 X 線源を用いた微小血管造影による再生血管の評価. 機能・代謝画像診断法と分子画像 (Ed by 西村恒彦), 南山堂, 2003.
2. 藤井隆文, 永谷憲歳, 徳永宣之, 神田宗武, 福山直人, . . . , 盛英三: 遺伝子を用いた再生医療 1)ゼラチンによる遺伝子の徐放化と細胞—遺伝子ハイブリッド治療への応用—, ドラッグデリバリーシステム DDS 技術の新たな展開とその活用法, 遺伝子医学別冊, (Ed by 田畑泰彦), メディカルドゥ, 大阪: 194-199, 2003.
3. 國本聡, 笠原啓史, 福山直人, 田中越郎, . . . . , 盛英三: 遺伝子による血管新生, 再生医療の実際, (Ed by 田畑泰彦), 羊土社: 116-123, 2003.

## ② 学会発表

1. Masuda M, Takeda S, Sone M, Ohki T, Mori H, Kamioka Y, Mochizuki N: "Endophilin-A1 BAR Domain Uses Two Mechanisms to Drive Membrane Curvature (ポスター)", American Society of Cell Biology, San Diego, 2006.12.
2. Ammar YB, Takeda S, Hisamitsu T, Mori H, Wakabayashi S: "Crystal structure reveals the mechanism for high specific interaction between CHP and NHE family and its role in pH regulation", EABS&BSJ(East Asian Biophysics Symposium & Annual Meeting of the Biophysical Society Japan), Okinawa, 2006.11.
3. Amino M, Yoshioka K, Matsuzaki A, Tanabe T, Tanaka E, Mori H, Furusawa Y, Zareba W, Honjo H, Yamazaki M, Nakagawa H, Yasui K, Kodama I: "Antiarrhythmic Cx43 up-regulation by radiation in rabbit", Scientific Sessions 2006, Illinois (Chicago), 2006.11.
4. Inoue H: "Relationship between cyclooxygenase-2 and nuclear receptor PPAR as a target against lifestyle-related diseases (Invited speaker)", Symposium on Cell Signaling and Gene Regulation, Tainan (Taiwan), 2006.11.
5. Igarashi T, Araki S, Mori H, Takeda S: "ADAMs' architecture revealed by VAPs: Molecular mechanism of ectodomain shedding by ADAMs", EABS&BSJ(East Asian Biophysics Symposium & Annual Meeting of the Biophysical Society Japan), Okinawa, 2006.11.
6. Masuda M, Takeda S, Sone M, Ohki T, Mori H, Kamioka Y, Mochizuki N: "Endophilin BAR domain drives membrane curvature by two newly identified structure-based mechanism", EABS&BSJ(East Asian Biophysics Symposium & Annual Meeting of the Biophysical Society Japan), Okinawa, 2006.11.
7. Obata H, Sakai Y, Ohnishi S, Takeshita S, Mori H, Kodama M, Aizawa Y, Nagaya N: "Single administration of novel sustained-release prostacyclin analogue attenuates monocrotaline-induced pulmonary hypertension in rats", Scientific sessions 2006, Illinois (Chicago), 2006.11.
8. Sukmawan R, Yada T, Toyota E, Neishi Y, Kume T, Haruna Y, Kashihara N, Mori H, Shinozaki Y, Ogasawara Y, Okura H, Yoshida K: "Edaravone preserves coronary microvascular nitric oxide availability and myocardial eNOS on ischemia/reperfusion injury in canine heart", Scientific sessions 2006, Illinois (Chicago), 2006.11.
9. Yada T, Shimokawa H, Hiramatsu O, Shinozaki Y, Mori H, Goto M, Ogasawara Y, Kajiya F: "Crucial role of hydrogen peroxide as an endogenous endothelium-derived hyperpolarizing factor during pacing-induced metabolic dilatation in canine coronary microvessels in vivo", Scientific sessions



- 2006, Illinois (Chicago), 2006.11.
10. Mori H: "Structural Biological Approach to Fundamental Protein in Human Diseases Explores Nanophysiology and Nanomedicine", 2nd Annual Meeting of the American Academy of Nanomedicine, Washington DC, 2006.9.
  11. Ben Ammar Y, Takeda S, Hisamitsu T, Mori H, Wakabayashi S: "Crystal structure of an essential cofactor CHP2 complexed with the cytosolic region of Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1", 20th IUBMB International Congress of Biochemistry and Molecular Biology and 11th FAOBMB congress, Kyoto Japan, 2006.6.
  12. Masuda M, Takeda S, Sone M, Ohki T, Kamioka Y, Mori H, Mochizuki N: "Endophilin BAR domain uses two mechanisms to drive membrane curvature (ポスター)", 20th IUBMU (International Congress of Biochemistry and Molecular Biology), 京都, 2006.6.
  13. Inoue H: "Possible linkage between "French Paradox" and PPAR (Poster presentation, selected)", 20th IUBMU 2006, Kyoto (Japan), 2006.6.
  14. Inoue H: "Possible linkage between cyclooxygenase-2 and nuclear receptor PPAR", 第14回武田科学振興財団生命科学シンポジウム, Kyoto (Japan), 2006.4.
  15. Amino M, Yoshioka K, Matsuzaki A, Tanabe T, Mori H, Tanaka E, Furusawa Y, Yamazaki M, Nakagawa H, Honjou H, Lee J-k, Yasui K, Kamiya K, Kodama I: "Heavy Ion Radiation Upregulates Connexin43 and Ameliorates the Substrates for VT/VF in Rabbit Hearts after Myocardial Infarction", 第70回日本循環器学会・学術集会, 415, 名古屋, 2006.03.
  16. Kataoka M, Nagaya N, Tanaka K, Miyahara Y, Mori H: "Transplantation of Adipose Tissue-derived Endothelial Like Cells Improves Cardiac Function in Rats with Acute Myocardial Infarction through Angiogenesis and Myogenesis", 第70回日本循環器学会・学術集会, 52, 名古屋, 2006.3.
  17. Kataoka M, Nagaya N, Tanaka K, Miyahara Y, Mori H: "Adipose Tissue-derived Endothelial Like Cells for Treatment of Pulmonary Hypertension in Rats", 第70回日本循環器学会・学術集会, 279, 名古屋, 2006.03.
  18. Miyahara Y, Nagaya N, Mori H: "Therapeutic Potency of Intramyocardial Sustained Delivery of Insulin-like Growth Factor-1 for Myocardial Infarction", 第70回日本循環器学会・学術集会, 315, 名古屋, 2006.03.
  19. Miyahara Y, Nagaya N, Mori H: "Insulin-like Growth Factor-1 Enhances Therapeutic Potency of Mesenchymal Stem Cell Transplantation for Myocardial Infarction", 第70回日本循環器学会・学術集会, 408, 名古屋, 2006.03.
  20. Miyamoto K, Takeshita S, Kasai S, Akutsu K, Hayashi T, Chiku M, Nishigami K, Mori H, Nakatani T, Nonogi H, Tomoike H: "Long-term Results of Autologous Transplantation of Bone Marrow Mononuclear Cells for Patients with Thromboangiitis Obliterans", 第70回日本循環器学会・学術集会, 630-631, 名古屋, 2006.03.
  21. Akiyama T, Yamazaki T, Mori H: "Intravenous Mg<sup>2+</sup> infusion inhibits adrenal catecholamine release by acting on both pre- and post-ganglionic sites", 第83回日本生理学会大会, S134, 群馬, 2006.3.
  22. Nishiura N, Mori H: "The modification of traditional device to record the force and length in small animal's isolated papillary muscle", 第83回日本生理学会大会, S134, 群馬, 2006.3.
  23. Schwenke DO, Pearson JT, Mori H, Shirai M: "Long-term monitoring of pulmonary arterial pressure in conscious, unrestrained mice", 第83回日本生理学会大会, S134, 群馬, 2006.3.

24. Sukmawan R, Yada T, Toyota E, Kume T, Mori H, Ogasawara Y, Yoshida K: "Scavenging Reactive Oxygen Species by Edaravone Preserves Coronary Microvascular Endothelial Function Myocardial eNOS Expression on Ischemia/Reperfusion Injury In Vivo Beating Canine Heart", 第70回日本循環器学会・学術集会, 52, 名古屋, 2006.03.
25. Yada T, Shimokawa H, Hiramatsu O, Shinozaki Y, Mori H, Goto M, Ogasawara Y, Kajiya F: "Cardioprotective Role of Hydrogen Peroxide as an Endogenous EDHF during Ischemia-reperfusion Injury in Canine Coronary Microvessels in Vivo", 第70回日本循環器学会・学術集会, 472, 名古屋, 2006.03.
26. Yada T, Shimokawa H, Hiramatsu O, Shinozaki Y, Mori H, Goto M, Ogasawara Y, Kajiya F: "Crucial Role of Hydrogen Peroxide as an Endogenous EDHF during Pacing-Induced Metabolic Dilatation in Canine Coronary Microvessels in Vivo", 第70回日本循環器学会・学術集会, 201, 2006.03.
27. Tanaka K, Mori H, Nagaya N: "Mesenchymal Stem Cells Not Only Regenerate Functional Cardiomyocytes but Also Have Paracrine Effects on Resident Myocytes in the Infarcted Myocardium", 第70回日本循環器学会・学術集会, 558, 名古屋, 2006.03.
28. 小幡裕明, 酒井芳紀, 大西俊介, 竹下聡, 盛英三, 小玉誠, 相澤義房, 永谷憲歳: "長期作用型プロスタサイクリンアゴニストの開発と肺高血圧モデルに対する効果の検討", 第79回日本内分泌学会学術総会, 511, 神戸, 2006.05.
29. 福島和人, 盛英三, 杉村和朗: "脈管画像診断の最近の進歩 放射光微小血管造影装置による諸臓器の微細血管構築の観察", 第47回日本脈管学総会, S78, 神戸, 2006.10.21.
30. 福島和人, 盛英三, 川嶋成乃亮, 杉村和朗: "糖尿病ラットおよび高血圧ラットにおける冠血管機能の評価:放射光単色 X線微小血管造影法による検討", 第47回日本脈管学総会, S122, 神戸, 2006.10.21.
31. 松原孝宜, 金相佑, 盛英三, 井上裕康: "Expression and purification of proteins related to arachidonate cascade for development of novel drugs", 第4回ナノテクノロジー総合シンポジウム, 東京, 2006.02.
32. Ben Ammar Y, Takeda S, Hisamitsu T, Mori H, Wakabayashi S: "Crystal Structure of CHP2 in Complex with its Binding Region in the Na<sup>+</sup>/H<sup>+</sup> Exchanger and Insights into the Mechanism of pH regulation", Japanese Bioenergetics meeting, 2005.12.19-21.
33. Ben Ammar Y, Takeda S, Hisamitsu T, Mori H, Wakabayashi S: "Structural insights into the functional interaction of CHP2 with the Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1", Tunisian-Japanese Seminar on Culture, Science and Technology, 6th Edition (TJCST 2005), Tunisia, 2005.11.7-12.
34. Wakabayashi S: "Structure-function relationship of the mammalian Na<sup>+</sup>/H<sup>+</sup> exchanger and its regulatory cofactor CHP", International Symposium on Biological Membrane Transport, 淡路, 2005.8.8-10.
35. Ben Ammar Y, Takeda S, Mori H, Wakabayashi S: "Crystal structure of CHP2 complexed with cytoplasmic binding region of Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1", 第五回日本蛋白質科学会, 福岡市, 2005.06.
36. Masuda M, Takeda S, Sone M, Kamioka Y, Ohki T, Mori H, Mochizuki N: "Endophilin BAR domain uses two mechanisms to drive membrane curvature", 日本細胞生物学会, 大宮市, 2005.06.
37. Takeda S, Masuda M, Sone M, Kamioka Y, Ohki T, Mori H, Mochizuki N: "Crystal structure of Endophilin BAR domain: two mechanisms to drive

- membrane curvature", 第五回日本蛋白質科学会, 福岡市, 2005.06.
38. Takeda S: "Crystal structure of troponin and the molecular mechanism of muscle regulation (invited lecture)", International Symposium on the creation of novel nanomaterials(ISCNN), Osaka, 2004.
39. Wakabayashi S, Pang T, Hisamitsu T, Ben Ammar Y, Shigekawa M: "Intracellular pH Regulation by the Na<sup>+</sup>/H<sup>+</sup> Exchanger: Calcineurin Homologous Protein 2 as a Potential Target for Anticancer Therapy (シンポジウム)", 第76回日本生化学会, パシフィコ横浜, 2003.10.
40. Pang T, Hisamitsu T, Shigekawa M, Wakabayashi S: "Role of Calcineurin B Homologous Protein in pH Regulation by the Na<sup>+</sup>/H<sup>+</sup> Exchanger", 第76回日本生化学会大会, パシフィコ横浜, 2003.10.
41. Hisamitsu T, Pang T, Shigekawa M, Wakabayashi S: "Homodimer of the Na<sup>+</sup>/H<sup>+</sup> Exchanger Detected by Symmetric Cross-linking at the Extracellular Sites", 第76回日本生化学会大会, パシフィコ横浜, 2003.10.
42. Wakabayashi S: "Structure, Function and Regulation of the Na<sup>+</sup>/H<sup>+</sup> Exchanger: Role of Interacting Proteins", the 9th Southeast Asian-Western Pacific Regional Meeting of Pharmacologists (第9回東南アジア - 西太平洋地域・薬理学会), 韓国釜山, 2003.8.
43. Pearson JT, 他: "ラット左室心筋におけるクロスブリッジ動態の in situ 評価", 第80回日本生理学会大会, 2003.3.
44. 井上裕康: "植物ポリフェノールによる PPAR 活性化の検討: フレンチパラドックスとの関連", 情報計算化学生物学会 (CBI 学会) 第270回研究講演会, 2006.12.
45. 井上裕康, 竹内悠, 中田理恵子, 松原孝宜, 金相佑, 名村尚武: "フレンチパラドックスと核内受容体 PPAR の新しい接点", 日本栄養食糧学会, 2006.
46. 井上裕康, 中田理恵子: "植物油による誘導型シクロオキシゲナーゼ発現抑制の検討", 日本家政学会, 2006.
47. 井上裕康, 中田理恵子, 竹内悠, 塚本朋子, 堀田真理子, 名村尚武: "植物性ポリフェノールによる核内受容体 PPAR の活性化", 日本脂質生化学会, 2006.
48. 井上裕康, 中田理恵子, 竹内悠, 名村尚武: "赤ワインに含まれるポリフェノール・レスベラトロールの核内受容体 PPAR を介する生活習慣病予防効果", 第9回 秋田応用生命科学研究会, 2006.
49. 金相佑, 田中秀明, 土持裕胤, 盛英三, 井上裕康, 月原富武: "膜貫通型膜蛋白質 5-リポキシゲナーゼ活性化タンパク質の精製と結晶化", 第6回蛋白質科学会, 2006.
50. 若林繁夫: "Na<sup>+</sup>/H<sup>+</sup>交換輸送体の調節因子 CHP の構造と pH センシング機構", バイオ分子センサー研究会, 生理学研究所・岡崎バイオサイエンスセンター, 2006.6.
51. 松原孝宜, 金相佑, 盛英三, 井上裕康: "Expression and Purification of Proteins Related to Arachidonate Cascade for Development of Novel Drugs (ポスター)", 第4回ナノテクノロジー総合シンポジウム, 2006.
52. 松原孝宜, 竹内悠, 金相佑, 盛英三, 井上裕康: "植物性ポリフェノールと核内受容体 PPAR の相互作用の検討", 日本ビタミン学会第58回大会, 2006.
53. 武田壮一: "タンパク質の形から機能が見えてくる", 第3回次世代光源計画ワークショップー先端的リング型光源が開くサイエンスー, 岡崎カンファレンスセンター, 2006.8.
54. 武田壮一: "蛇毒ホモログの結晶構造から見えてきた ADAM 型膜結合プロテアーゼの基本構造とその作用", 第5回ケモゲノミクス研究会, 京

- 都大学薬学部記念講堂, 2006.5.
55. 武田壮一: "蛇毒プロテアーゼの結晶構造", 大阪大学蛋白質研究所セミナー・膜近傍におけるプロテオリシス研究の最先端, 大阪大学蛋白質研究所講堂, 2006.2.
  56. 五十嵐智子, 武田壮一, 盛英三: "Crystal structure of the N-terminal domain of human cardiac troponin C in complex with a calcium-sensitizer; trifluoperazine", The 22nd Annual Meeting of the Japanese Section of the International Society of Heart Research, 大阪, 2005.12.
  57. 五十嵐智子, 武田壮一, 荒木聡彦, 大石裕子, 盛英三: "血管内皮細胞のアポトーシスを誘導するヘビ毒メタロプロテアーゼの X 線結晶構造解析", 日本生物物理学会第 43 回年会, 北海道, 2005.11.
  58. 武田壮一, 増田道隆, 曾根麻奈美, 上岡雄治, 大木高志, 盛英三, 望月直樹: "エンドフィリン BAR ドメインの結晶構造: 脂質二重膜を曲げる二つの機構", 日本生物物理学会第 43 回年会, 札幌市, 2005.11.
  59. 武田壮一: "「バイオシグナルの統合と治療応用に関する研究会」招待講演「構造を放射光で見る」", 第 44 回 日本エム・イー学会大会 (日本生体医工学会), 筑波, 2005.04.
  60. Igarashi T, Takeda S, Araki S, Oishi Y, Mori H: "血管内皮細胞のアポトーシスを誘導するヘビ毒メタロプロテアーゼの X 線結晶構造解析", 第五回日本蛋白質科学会年会, 福岡, 2005.06.
  61. 盛英三, 他: "ナノレベルイメージングによる分子の機能および構造解析", ナノメデイシンフォーラム 2004, 2004.
  62. 盛英三, 他: "日本型移植医療をどう作るか—細胞・組織・臓器— (プレナリセッション)", 第 68 回日本循環器学会総会, 2004.3.
  63. 若林繁夫, 久光隆, パン・テンシャン, ヨセフ・ベンアマー: "動物細胞 Na<sup>+</sup>/H<sup>+</sup> exchanger の pH センシング機構", 第 29 回生体エネルギー研究会, 東工大, 2003.12.
  64. 久光隆, パン・テンシャン, 若林繁夫: "動物細胞 Na<sup>+</sup>/H<sup>+</sup> exchanger のオリゴマー形成と活性調節", 第 29 回生体エネルギー研究会, 東工大, 2003.12.
  65. 若林繁夫: "イオントランスポータの最前線: Na<sup>+</sup>/H<sup>+</sup> アンチポータを中心に", 第 22 回聴覚生理研究会, 幕張メッセ, 2003.10.
  66. 武田壮一, 前田雄一郎: "トロポニンの結晶構造と筋収縮制御機構", 日本結晶学会年会, 2003.
  67. 武田壮一, 山下敦子, 前田佳代, 前田雄一郎: "トロポニンの結晶構造と筋収縮制御の分子機構", 第 3 回日本蛋白質科学会年会, 2003.
  68. 武田壮一: "筋収縮・制御機構の新しい視点—1 分子生理からシステムへ—「ヒト心筋トロポニンの結晶構造」(シンポジウム)", 第 80 回日本生理学会, 2003.3.
  69. 前田雄一郎, 武田壮一, 小田俊郎: "原子構造から見たアクチンフィラメントの柔らかさ (シンポジウム)", 第 41 回生物物理学会年会, 2003.
  70. 松原孝宜, 五十嵐智子, 武田壮一, 前田雄一郎, 盛英三: "心筋トロポニンのリン酸化型変異体の結晶構造解析", 第 41 回日本生物物理学会年会, 2003.
  71. 西浦直亀, 他: "多層心筋モデルの X 線回折について", 第 80 回日本生理学会大会, 2003.3.
  72. 盛英三, 他: "循環器疾患制圧に向けたナノメデイシンの開発", 第 26 回日本医学会総会学術講演会 (シンポジウム: ナノテクノロジーと医療), 2003.
  73. 南方志帆, 武田壮一, 若林克三, 前田雄一郎: "トロポニン T1/トロポミオシン複合体の結晶化", 第 41 回日本生物物理学会年会, 2003.
  74. 南方志帆, 武田壮一, 若林克三, 前田雄一郎: "トロポニン T1/トロポミオシン複合体の結晶化", 第 40 回日本生物物理学会年会, 2002.