

Osamu Shirota, Setsuko Sekita, **Motoyoshi Satake**, Hiroshi Morita, Koichi Takeya, Hideji Itokawa: Nine new Triterpene Dimers from *Maytenus chuchuhusca*, Helvetica Chemica Vol.87(2004)

芹川 忠夫	京都大学医学研究科附属動物実験施設施設長・教授
実験動物学	
An ENU-induced mutant archive for gene targeting in rats. Mashimo T, Yanagihara K, Tokuda S, Voigt B, Takizawa A, Nakajima R, Kato M, Hirabayashi M, Kuramoto T, Serikawa T Nature Genetics, 40(5):514-515, 2008	
Rat Gene mapping using PCR-analyzed microsatellites. Serikawa T, Kuramoto T, Hilbert P, Mori M, Yamada J, Dubay C.J., Lindpaintner K, Ganten D, Guenet J.L., Lathrop G.M., and Beckmann J.S. Genetics 131:701-721,1992	
Chromosomal mapping of two genetic loci associated with blood-pressure regulation in hereditary hypertensive rats. Hilbert P, Lindpaintner K, Beckmann J.S., Serikawa T, Soubrier F, Dubay C, Cartwright P, De Gouyon B, Julier C, Takahashi S, Vincent M, Georges D, and Lathrop M.G. Nature, 353:521-529,1991	

城石 俊彦	情報・システム研究機構国立遺伝学研究所、教授
哺乳動物遺伝学	
Takada T, Mita A, Maeno A, Sakai T, Shitara H, Kikkawa Y, Moriwaki K, Yonekawa H, Shiroishi T (2008). Mouse inter-subspecific consomic strains for genetic dissection of quantitative complex traits. Genome Res. 18, 590-598.	
Oka A, Aoto T, Totsuka Y, Takahashi R, Ueda, Mita A, Sakurai-Yamatani N, Yamamoto H, Kuriki S, Takagi N, Moriwaki K and Shiroishi T (2007). Disruption of genetic interaction between two autosomal regions and the X chromosome causes reproductive isolation between mouse strains derived from different subspecies. Genetics 175, 185-197.	

Abe K, Noguchi H, Tagawa K, Yuzuriha M, Toyoda A, Kojima T, Ezawa K, Saitou N, Hattori M, Skaki Y, Moriwaki K, and Shiroishi T (2004). Contribution of Asian mouse subspecies *Mus musculus molossinus* to genomic constitution of strain C57BL/6J, as defined by BAC-end sequence-SNP analysis. *Genome Res.* 14, 2439-2447.

藤本 純一郎	国立成育医療センター研究所副所長
病理学	
Inducible expression of chimeric EWS/ETS proteins confers Ewing's family tumor-like phenotypes to human mesenchymal progenitor cells. Miyagawa Y, Okita H, Nakaijima H, Horiuchi Y, Sato B, Taguchi T, Toyoda M, Katagiri YU, Fujimoto J, Hata J, Umezawa A and Kiyokawa N. <i>Mol. Cell Biol.</i> 2008 28(7):2125-37.	
Acute onset of diabetic pathological changes in transgenic mice with human aldose reductase cDNA. Yamaoka T, Nishimura C, Yamashita K, Itakura M, Yamada T, Fujimoto J, Kokai Y. <i>Diabetologia</i> 1995 38:255-61.	
Elevation of lymphocyte and hematopoietic stem cell numbers in mice transgenic for human granulocyte CSF. Yamada T, Kaneko H, Iizuka K, Matsubayashi Y, Kokai Y, Fujimoto J. 1996 <i>Lab Invest</i> 74:384-94.	

柳澤 勝彦	国立長寿医療センター研究所・副所長
分子神経病理学	
GM1 ganglioside-bound amyloid β -protein (A β): A possible form of preamyloid in Alzheimer's disease. <u>Yanagisawa K.</u> , Odaka A., Suzuki N., and Ihara Y. <i>Nature Med.</i> 1995. 1:1062-1066.	
A seed for Alzheimer amyloid in the brain. Hayashi H., Kimura N., Yamaguchi H., Hasegawa K., Yokoseki T., Shibata M., Yamamoto N., Michikawa M., Yoshikawa Y., Terao K., Matsuzaki K., Lemere C.A., Selkoe D.J., Naiki H. and <u>Yanagisawa K.</u> <i>J Neurosci</i> 2004. 24: 4894-4902.	

A ganglioside-induced toxic soluble A β assembly: Its enhanced formation from A β bearing the Arctic mutation. Yamamoto N., Matsubara E., Maeda S., Minagawa H., Takashima A., Maruyama W., Michikawa M. and Yanagisawa K.
 J Biol Chem 2007. 282: 2646-2656.

山口 照英	国立医薬品食品衛生研究所・生物薬品部長
バイオテクノロジー応用医薬品	
Kanayasu-Toyoda T, Ishii-Watabe A, Suzuki T, Oshizawa T, and Yamaguchi T. A new role of thrombopoietin enhancing ex vivo expansion of endothelial precursor cells derived from AC133 positive cells. J Biol Chem., 282, 33507-33514 (2007)	
Noritaka Hashii, Nana Kawasaki, Satsuki Itoh, Yukari Nakajima, Toru Kawanishi, and Teruhide Yamaguchi: Alteration of N-glycosylation in the kidney in a mouse model of systemic lupus erythematosus: Relative quantification of N-glycans using an isotope tagging method, Immunology, 2009, (in press)	
Satsuki Itoh, Akiko Hachisuka, Nana Kawasaki, Noritaka Hashii, Reiko Teshima, Takao Hayakawa, Toru Kawanishi, and Teruhide Yamaguchi: Glycosylation Analysis of IgLON Family Proteins in Rat Brain by Liquid Chromatography and Multiple-Stage Mass Spectrometry, Biochemistry, 47, 10132-10154, (2008)	

吉木 淳	理化学研究所バイオリソースセンター・実験動物開発室長
実験動物学、動物遺伝学	
<u>Yoshiki, A.</u> , Ike, F., Mekada, K., Kitaura, Y., Nakata, H., Hiraiwa, N., Mochida, K., Ijuin, M., Kadota, M., Murakami, A., Ogura, A., Abe, K., Moriwaki, K., and Obata, Y. (2009) The Mouse Resources at the RIKEN BioResource Center. <i>Exp Anim</i> 58 (2) in press.	
Mekada, K., Abe, K., Murakami, A., Nakamura, S., Nakata, H., Moriwaki, K., Obata, Y., and <u>Yoshiki, A.</u> (2009) Genetic Differences among C57BL/6 Substrains. <i>Exp Anim</i> 58 (2) in press.	

Araki, K., Takeda, N., Yoshiki, A., Obata, Y., Nakagata, N., Shiroishi, T., Moriwaki, K., and Yamamura, K. (2009) Establishment of germline-competent embryonic stem cell lines from the MSM/Ms strain. *Mamm Genome* 20, 14-20.

渡邊 治雄	国立感染症研究所 副所長
細菌学, 分子遺伝学	
Mitobe, J., Tomoko Ishihara, Akira Ishihama and <u>Haruo Watanabe.</u> Involvement of RNA binding protein Hfq in the post-transcriptional regulation of <i>invE</i> gene expression of <i>Shigella sonnei</i> . J. Biol. Chem. 283:5738-5747. 2008.	
Saitoh, T., Sunao Iyoda, Shouji Yamamoto, Yan Lu, Ken Shimuta, Makoto Ohnishi, Jun Terajima, and <u>Haruo Watanabe.</u> Transcription of enterohemolysin gene is positively regulated by GrlA, a global regulator encoded within the locus of enterocyte effacement in enterohemorrhagic <i>Escherichia coli</i> . J. Bacteriol. 190:4822-4830. 2008.	
Takahashi Hideyuki, Russel W. Carlson, Muszynski A, Choudhury B, Kim KS, Stephens DS and <u>Haruo Watanabe.</u> Modification of lipooligosaccharide (LOS) with phosphoethanolamine by LptA in <i>Neisseria meningitidis</i> enhances meningococcal adhesion to human endothelial and epithelial cells. Infect Immun. 76: 5777-5789. 2008	

(官職指定)

大臣官房厚生科学課長
医政局研究開発振興課

ナノメディシン研究事業中間・事後評価委員名簿

(○ : 委員長)

石川 正道	東京工業大学大学院総合理工学研究科教授
材料科学	
Precise Fabrication of Nanomaterials: a Nonlinear dynamics approach. M. Ishikawa, Chaos, 15, 047503, 2005.	

<p>文書クラスタリングによるトピック抽出および課題発見. 橋本泰一, 村上浩司, 乾孝司, 内海和夫, 石川正道, 社会技術研究論文集, 5, 216-226, 2008.</p>
<p>「ナノテク&ビジネス入門」石川正道、オーム社、2002.</p>

梶谷 文彦	川崎医療福祉大学 副学長・教授
循環器ナノメディシン	
<p>Measurements of endothelial cell-to-cell and cell-to-substrate gaps and micromechanical properties of endothelial cells during monocytes adhesion. N. Kataoka, K. Iwaki, K. Hashimoto, S. Mochizuki, Y. Ogasawara, M. Sato, K. Tsujioka, <u>F. Kajiya</u>. Proc. Natl. Acad. Sci. USA 99(24): 15638-15643, 2002</p>	
<p>X-ray diffraction from a left ventricular wall of rat heart. N. Yagi, J. Shimizu, S. Mohri, J. Araki, K. Nakamura, H. Okuyama, H. Toyota, T. Morimoto, Y. Morizane, M. Kurusu, T. Miura, K. Hashimoto, K. Tsujioka, H. Suga, <u>F. Kajiya</u>. Biophysical J. 86(4): 2286-2294, 2004</p>	
<p>Global heterogeneity of glomerular volume distribution in early diabetic nephropathy. E. Toyota, Y. Ogasawara, K. Fujimoto, T. Kajita, F. Shigeto, T. Asano, N. Watanabe, <u>F. Kajiya</u>. Kidney Int. 66(2): 855-861, 2004</p>	

菊地 眞	防衛医科大学校・副校長（教育担当）、医用工学講座/教授
医用工学	
<p>Enhanced photodynamic cancer treatment by supramolecular nanocarriers changed with dendrimer phthalocyanine. Nobuhiro Nishiyama, Yoshinori Nakagishi, Yuji Morimoto, Ping-Shan Lai, Kozo Miyazaki, Kyoko Urano, Souta Horie, Michiaki Kumagai, Shigeno Fukkushima, YU</p>	

Cheng, Woo-Dong Jang, <u>Makoto Kikuchi</u> , Kazunori Kataoka, Journal of Controlled Release 133:pp245-251, 2008
Liposome-encapsulated hemoglobin transfusion rescues rats undergoing progressive hemodilution from lethal organ hypoxia without scavenging nitric oxide. Yashiro Nogami, Manabu Kinoshita, Bonpei Takase, Yoshitaka Ogata, Daizoh Saitoh, <u>Makoto Kikuchi</u> , Masayuki Ishihara, Tadaaki Maehara, Annals of Surgery 248(2):pp. 310-319, 2008
Nanotechnology Impact towards Biomedical Engineering (生体医用工学におけるナノテクノロジーの影響). <u>Kikuch Makoto</u> , Biocybernetics and Biomedical Engineering, 27(1-2):pp. 27-32, 2007

清水 公治	島津製作所経営戦略室 専門部長
“Visualization of moving fluid: Quantitative analysis of blood flow velocity using MR imaging”, K. Shimizu, T. Matsuda, et al., Radiology; 159:195-199, 1986	
“Three-dimensional probabilistic anatomical cranio-cerebral correlation via the international 10-20 system oriented for transcranial functional brain mapping”, M. Okamoto, H. Dan, K. Shimizu, et al., NeuroImage; 21:99-111, 2004	
“Temporal Classification of Multi-channel Near Infrared Spectroscopy Signals of Motor Imagery for Developing a Brain-Computer Interface”, R. Sitaram, H. Zhang, K. Shimizu, et al., NeuroImage; 15:1416-1427, 2007	

鈴木 紘一	東レ株式会社先端融合研究所・専任理事・所長
生物化学、蛋白質科学	

<p>Strobl S., Fernandez-Catalan C., Braun M., Huber R., Masumoto H., Nakagawa K., Irie A., Sorimachi H., Bourenkow G., Bartunik H., <u>Suzuki K.</u>, Bode W. The crystal structure of calcium-free human m-calpain suggests an electrostatic switch mechanism for activation by calcium. Proc Natl Acad Sci USA 2000; 97: 588-592</p>
<p>Suzuki K, Hata S, Kawabata Y, Sorimachi H Structure, Activation, and Biology of Calpain. Diabetes 2004; 53, Supp 1: S12-S18</p>
<p>Ono Y, Torii F, Ojima K, Doi N, Yoshioka K, Kawabata Y, Labeit D, Labeit S, <u>Suzuki K.</u>, Abe K, Maeda T, Sorimachi H. J Biol Chem 2006;281:18519-18531</p>

砂川 賢二	九州大学大学院医学研究院 循環器内科 教授
循環器内科学 生体医工学 バイオニック医学	
<p>Egashira K, Nakano K, Ohtani K, Funakoshi K, Zhao G, Ihara Y, Koga J, Kimura S, Tominaga R, Sunagawa K. Local delivery of anti-monocyte chemoattractant protein-1 by gene-eluting stents attenuates in-stent stenosis in rabbits and monkeys. Arterioscler Thromb Vasc Biol. 27(12): 2563-2568, 2007.</p>	
<p>Nozoe M, Hirooka Y, Koga Y, Sagara Y, Kishi T, Engelhardt JF, Sunagawa K. Inhibition of Rac1-derived reactive oxygen species in nucleus tractus solitarius decreases blood pressure and heart rate in stroke-prone spontaneously hypertensive rats. Hypertension. 50(1): 62-68, 2007.</p>	
<p>Ohtani K, Egashira K, Nakano K, Zhao G, Funakoshi K, Ihara Y, Kimura S, Tominaga R, Morishita R, Sunagawa K. Stent-based local delivery of nuclear factor-kappaB decoy attenuates in-stent restenosis in hypercholesterolemic rabbits. Circulation. 114(25): 2773-2779, 2006.</p>	

湯元 昇	産業技術総合研究所・理事
生化学、蛋白質科学、蛋白質工学	