

2005年度 発表論文一覧

氏名	論文題目	学協会誌名・巻数・号数 発行年・頁
Y. Kato Y. Asano	Purification and characterization of aldoxime dehydratase of the head blight fungus, <i>Fusarium graminearum</i>	Biosci. Biotech. Biochem., 69, 2254-2257 (2005)
S. Nanda Y. Kato Y. Asano	A new (<i>R</i>)-hydroxynitrile lyase from <i>Prunus mume</i> : asymmetric synthesis of cyanohydrins	Tetrahedron, 61, 10908-10916 (2005)
Y. Asano S. Yamaguchi	Discovery of amino acid amides as new substrates for α -amino- ϵ -caprolactam racemase from <i>Achromobacter obae</i>	J. Molec. Catal. B: Enzymatic., 36, 22-29 (2005)
R. Villalonga S. Tachibana Y. Perez Y. Asano	Increased conformational and thermally stable properties for phenylalanine dehydrogenase by chemical glycosidation with end-group activated dextran	Biotechnol. Lett., 27, 1311-1317 (2005)
H. Komeda Y. Asano	A DmpA-homologous protein from <i>Pseudomonas</i> sp. is a dipeptidase specific for β -alanyl dipeptides	FEBS J., 272, 3075-3084 (2005)
A. Inoue H. Komeda Y. Asano	Asymmetric synthesis of L- α -methylcysteine with the amidase from <i>Xanthobacter flavus</i> NR303	Advanced Synthesis & Catalysis, 347, 1132-1138 (2005)
T. Hongpattarakere H. Komeda Y. Asano	Purification, characterization, gene cloning and nucleotide sequencing of D-stereospecific amino acid amidase from soil bacterium: <i>Delftia acidovorans</i>	J. Ind. Microbiol. Biotechnol., 32, 567-576 (2005)
Y. Asano S. Yamaguchi	Dynamic kinetic resolution of amino acid amide catalyzed by D-aminopeptidase and α -amino- ϵ -caprolactam racemase	J. Am. Chem. Soc., 127, 7696-7697 (2005)
Y. Kato S. Yoshida Y. Asano	Polymerase chain reaction for identification of aldoxime dehydratase in aldoxime- or nitrile-degrading microorganisms	FEMS Microbiol. Lett., 246, 243-249 (2005)
Y. Asano I. Kira K. Yokozeki	Alteration of substrate specificity of aspartase by directed evolution	Biomolecular Engineering, 22, 95-101 (2005)

K. Kobayashi S. Yoshioka Y. Kato Y. Asano S. Aono	Regulation of aldoxime dehydratase activity by redox-dependent change in the coordination structure of the aldoxime-heme complex	J. Biol. Chem., 280, 5486-5490 (2005)
Y. Asano	Development of D-stereoselective amino acid amide hydrolases and their application to the dynamic kinetic resolution of amino acid amides	Pharmacia, (in Japanese), 41, 881-884 (2005)
S. Okazaki T. Hikage A. Suzuki H. Komeda Y. Asano T. Yamane	Structure determination of D-stereospecific amino acid amidase	Progress in X-ray diffraction research, Nagoya University, Japan (in Japanese), pp 21-23, (2005)
H. Komeda N. Mizuguchi I. Kira K. Yokozeki Y. Asano	Cloning of isoasparaginase (α -aspartyl dipeptidase) gene from <i>Escherichia coli</i> K-12 and overexpression of the gene in <i>E. coli</i>	Bull. Toyama Pref. Univ., 15, 91-98 (2005)
Y. Mihara K. Ishikawa E. Suzuki Y. Asano	Improving the pyrophosphate-inosine phosphotransferase activity of <i>Escherichia blattae</i> acid phosphatase by sequential site-directed mutagenesis	Biosci. Biotechnol. Biochem., 68, 1046-1050 (2004)
H. Asako R. Wakita K. Matsumura M. Shimizu J. Sakai N. Itoh	Purification and cDNA cloning of NADPH-dependent aldoketoreductase, involved in asymmetric reduction of methyl 4-bromo-3-oxobutyrate, from <i>Penicillium citrinum</i> IF0463	Appl. Environ. Microbiol., 71, 1101-1104 (2005).
K. Inoue Y. Makino N. Itoh	Production of (R)-chiral alcohols by a hydrogen-transfer bioreduction with NADH-dependent <i>Leifsonia</i> alcohol dehydrogenase (LSADH)	Tetrahedron: Asymmetry, 16, 2539-2549 (2005).
K. Inoue Y. Makino N. Itoh	Purification and characterization of a novel alcohol dehydrogenase from <i>Leifsonia</i> sp. strain S749: A promising biocatalyst for an asymmetric hydrogen transfer bioreduction	Appl. Environ. Microbiol., Vol. 71, No. 7 (2005) 3633-3641

C. Nakano T. Okamura T. Sato T. Dairi T. Hoshino	<i>Mycobacterium tuberculosis</i> H37Rv 3377c encodes the diterpene cyclase for producing halimane skeleton	Chem. Commun., Issue 8 (2005) 1016-1018
K. J. Puan H. Wang T. Dairi T. Kuzuyama C. T. Morita	fldA is an essential gene required in the 2-C-methyl-D-erythritol 4-phosphate pathway for isoprenoid biosynthesis	FEBS Lett., Vol. 579 (2005) 3802-3806
T. Dairi	Studies on biosynthetic genes and enzymes of isoprenoids produced by actinomycetes	Japanese J. Antibiot., Vol. 58 (2005) 87-98
T. Dairi	Studies on biosynthetic genes and enzymes of isoprenoids produced by actinomycetes	J. Antibiot., Vol. 58 (2005) 227-243
Y. Makino K. Inoue T. Dairi N. Itoh	Engineering of Phenylacetaldehyde Reductase for Efficient Substrate Conversion in Concentrated 2-Propanol	Appl. Environ. Microbiol., Vol. 71 (2005) 4713 4720
Y. Igarashi Y. Yabuta A. Sekine K. Fujii K. Harada T. Oikawa M. Sato T. Furumai T. Oki	Directed biosynthesis of fluorinated pseurotin A, synerazol and gliotoxin	Journal of Antibiotics, 57 , 748-754 (2004)
F. Hiramoto N. Nomura T. Furumai Y. Igarashi T. Oki	Pradimicin resistance of yeast is caused by a mutation of the putative N-glycosylation sites of osmosensor protein Sln1	Bioscience, Biotechnology, and Biochemistry, 69 , 238-241 (2005)
Y. Ikeda H. Nonaka T. Furumai Y. Igarashi	Cremastrine, a novel pyrrolizidine alkaloid from <i>Cremastra appendiculata</i>	Journal of Natural Products, 68 , 572-573 (2005)
Y. Igarashi K. Ootsu H. Onaka T. Fujita Y. Uehara T. Furumai	Anicemycin, a new inhibitor of anchorage-independent growth of tumor cells from <i>Streptomyces</i> sp. TP-A0648	Journal of Antibiotics, 58 , 322-326 (2005)

Y. Igarashi S. Miyanaga H. Onaka M. Takeshita T. Furumai	Revision of the structure assigned to the antibiotic BU-4664L from <i>Micromonospora</i>	Journal of Antibiotics, 58, 350-352 (2005)
Y. Ikeda, H. Nonaka T. Furumai H. Onaka Y. Igarashi	Nocardimicins A, B, C, D, E, and F, siderophores with muscarinic M3 receptor inhibiting activity from <i>Nocardia</i> sp. TP-A0674	Journal of Natural Products, 68, 1061-1065 (2005)
尾仲宏康	放線菌由来複素環抗生物質の生合成研究および新規物質創製への展開	長瀬科学技術振興財団研究報告集 2004 年度版 vol. 15, 77-86 (2005)
尾仲宏康 谷口真市 五十嵐康弘 古米保	Award for Excellence to authors publishing in <i>Bioscience, Biotechnology, and Biochemistry</i> . <i>Lechevalieria aerocolonigenes</i> ATCC39243 のレベッカマイシン生合成遺伝子群の解析	日本農芸化学会誌 vol.78, No.9, 48-49 (2004)
H. Onaka	Characterization of the biosynthetic gene cluster of goadsporin which promotes secondary metabolism and sporulation in actinomycetes.	Report of the Noda Institute for Scientific Research, 48, 127-128 (2004)
H. Onaka	Studies on goadsporin: mechanism of its action on the induction of secondary metabolism and sporulation in streptomycetes, and its application.	The Waksman Foundation of Japan INC. Report of Researches in 2003, 1-11 (2004)
Y. Igarashi Y. In T. Ishida T. Fujita T. Yamakawa H. Onaka T. Furumai	Absolute configuration of TPU-0043, a pentaene macrolide from <i>Streptomyces</i> sp.	Journal of Antibiotics, 58, 523-525 (2005)
Y. Ikeda T. Furumai Y. Igarashi	Nocardimicins G, H and I, siderophores with muscarinic M3 receptor binding inhibitory activity from <i>Nocardia nova</i> JCM 6044	Journal of Antibiotics, 58, 566-572 (2005)
H. Onaka S. Asamizu Y. Igarashi R. Yoshida	Cytochrome P450 homolog is responsible for C-N bond formation between aglycone and deoxysugar in the staurosporine biotynthesis of	Bioscience, Biotechnology and Biochemistry, 69 (9), 1753-1759 (2005)

T. Furumai	<i>Streptomyces</i> sp. TP-A0274	
H. Onaka M. Nakaho K. Hayashi Y. Igarashi T. Furumai	Cloning and characterization of goadsporin biosynthetic gene cluster from <i>Streptomyces</i> sp. TP-A0584.	Microbiology, 151: 3923-3933 (2005)
S. Asamizu Y. Kato Y. Igarashi T. Furumai H. Onaka	Direct formation of chromopyrrolic acid from indole-3-pyruvic acid by StaD, a novel hemoprotein in indolocarbazole biosynthesis.	Tetrahedron Letters <i>in press</i>
A. Saito Y. Mizushina H. Ikawa H. Yoshida Y. Doi A. Tanaka N. Nakajima	Systematic synthesis of galloyl-substituted procyanidin B1 and B2, and their ability of DPPH radical scavenging activity and inhibitory activity of DNA polymerases	Bioorg. Med. Chem., 2005, 13, 2759-2771.
Y. Mizushina A. Saito A. Tanaka N. Nakajima I. Kuriyama M. Takemura T. Takeuchi F. Sugawara H. Yoshida	Structural analysis of catechin derivatives as mammalian DNA polymerase inhibitors	Biochim. Biophys. Res. Commun. 333 (2005) 101-109
齊藤安貴子・中島範行	プロアントシアニジンの立体選択的合成研究とその生物活性	有機合成化学協会誌, 63 (2005) 982-994
S. Fukunishi M. Ubukata N. Nakajima	Synthetic studies of liposidomycin degradation product: attempt for introduction of an uracil group	Heterocycles, 66, (2005) <i>in press.</i>
K. Matsubara A. Saito A. Tanaka N. Nakajima R. Akagi M. Mori Y. Mizushina	Catechin conjugated with fatty acid inhibits DNA polymerase and angiogenesis	DNA & Cell Biol. <i>in press.</i>
H. Sakuda A. Saito Y. Mizushina H. Yoshida A. Tanaka	Synthesis of galloyl-substituted procyanidin B4 series, and their DPPH radical scavenging activity and DNA polymerase inhibitory activity	Heterocycles, 67, (2006) <i>in press.</i>

N. Nakajima M. Umehara S. Ogita H. Sasamoto, H. Koshino T. Asami S. Fujioka S. Yoshida H. Kamada	Identification of a novel factor, vanillyl benzyl ether, which inhibits somatic embryogenesis of Japanese Larch (<i>Larix leptolepis</i> GORDON)	Plant and Cell Physiology, Vol.46, No.3 (2005) 445-453
S. Ogita H. Uefuji Y. Tatsumi M. Morimoto, P. Kaothien-Nakayama S. Ogita, H. Sano	Callus and cell suspension culture of Bamboo plant, <i>Phyllostachys nigra</i> Caffeine production in tobacco plants by simultaneous expression of three coffee N-methyltrasferases and its potential as a pest repellant	Plant Biotechnology, Vol.22, No.2 (2005) 119-125 Plant Molecular Biology, Vol.59 (2005) 221-227
M. Umehara S. Ogita H. Sasamoto Chang-Ho Eun Y. Matsubayashi Y. Sakagami H. Kamad	Two stimulatory effects of the peptidyl growth factor phytosulfokine during somatic embryogenesis in Japanese larch (<i>Larix leptolepis</i> Gordon)	Plant Science, Vol.169, No.5 (2005) 901-907
S. Ogita H. Uefuji M. Morimoto H. Sano	Metabolic engineering of caffeine production	Plant Biotechnology, Vol.22, No.5(2005) 461-468
荻田信二郎	現代の竹取物語：竹のバイオテクノロジー	Bamboo Voice No.23 (2005) 7-10
荻田信二郎	遺伝子組換え植物の展望：GM デカフェコーヒーのその後	植物の生長調節 Vol.40 No.1, 106-107 (2005)
M. Kamakura M. Maebuchi S. Ozasa M. Komori T. Ogawa T. Sakaki T. Moriyama	Influence of royal jelly on mouse hepatic gene expression and safety assessment with a DNA Microarray	J. Nutr. Sci. Vitaminol., 51, 148-155 (2005)
M. Kamakura M. Fukushima T. Iso	Inhibition of specific degradation of 57-kDa protein in royal jelly during storage by citrate buffer	J. Nutr. Sci. Vitaminol., 51, 207-210 (2005)

M. Kamakura K. Tamaki T. Sakaki Y. Yoneda	Increase of AMPA receptor glutamate receptor 1 subunit and B-cell receptor associated protein 31 gene expression in hippocampus of fatigued mice	Neurosci Lett., 387, 1-4 (2005)
T. Sakaki N. Kagawa K. Yamamoto K. Inouye	Metabolism of vitamin D3 by cytochromes P450	Frontiers in Bioscience 10, 119-134 (2005)
N. Kasai T. Sakaki R. Shinkyo S. Ikushiro T. Iyanagi M. Ohta K. Inouye	Metabolism of 26, 26, 26, 27, 27, 27-F6-1a, 23S, 25-trihydroxyvitamin D3 by human UDP-glucuronosyltransferase 1A3	Drug Metabolism and Disposition 33, 102-107 (2005)
M. Kamao S. Hatakeyama T. Sakaki N. Sawada K. Inouye N. Kubodera S. Reddy T. Okano	Measurement and characterization of C-3 epimerization activity toward vitamin D3	Archives of Biochemistry and Biophysics 436, 196-205 (2005)
D. Abe T. Sakaki T. Kusudo A. Kittaka N. Saito Y. Suhara T. Fujishima H. Takayama H. Hamamoto M. Kamakura M. Ohta K. Inouye	Metabolism of 2a-propoxy-1a, 25-dihydroxyvitamin D3 and 2a-(3-hydroxypropoxy)-1a, 25-dihydroxyvitamin D3 by human CYP27A1 and CYP24A1	Drug Metabolism and Disposition 33, 778-784 (2005)
K. Orihara T. Yamazaki R. Shinkyo T. Sakaki K. Inouye A. Tsukamoto J. Sugiura K. Shishido	Ratcytochrome P450-mediated transformation of dichlorodibenzo-p-dioxins by recombinant white-rotbasidiomycete <i>Coriolus hirsutus</i>	Applied Microbiol. Biotechnol. 69, 22-28 (2005)
K. Yamamoto E. Uchida	Identification of the amino acid residue of CYP27B1 responsible for	Journal of Biological Chemistry 280, 30511-30516 (2005)

N. Urushino T. Sakaki N. Kagawa N. Sawada M. Kamakura S. Kato K. Inouye S. Yamada	binding of 25-hydroxyvitamin D3 whose mutation causes vitamin D-dependent rickets type 1	
N. Tanaka R. Shinkyo T. Sakaki M. Kasamatsu S. Imaoka Y. Funae H. Yokota	Cytochrome P450 2E polymorphism in feline liver	Biochim Biophys Acta. 1726, 194-205 (2005)
N. Nishimura J. Yonemoto C. Yokoi Y. Takeuchi S. Ikushiro H. Nishimura C. Tohyama	Disruption of Thyroid Hormone Homeostasis at Weaning of Holtzman Rats by Lactational but not in utero Exposure to 2, 3, 7, 8-Tetrachlorodibenzo-p-dioxin	Toxicological Sciences, 85, 607-614 (2005)
P. I. Mackenzie K. Walter Bock B. Burchell C. Guillemette S. Ikushiro T. Iyanagi J. O. Miners I. S. Owens D. W. Nebert	Nomenclature Update for the Mammalian UDP Glycosyltransferase (UGT) Gene Superfamily	Pharmacogenetics and Genomics, 10, 677-685 (2005)
Y. Emi K. Ueda A. Ohnishi S. Ikushiro T. Iyanagi	Transcriptional Enhancement of UDP-glucuronosyltransferase Form 1A2 (UGT1A2) by Nuclear Factor I-A (NFI-A) in Rat Hepatocytes	Journal of Biochemistry, 138, 313-325 (2005)
Y. Kato H. Suzuki S. Ikushiro M. Ema J. Kanno S. Yamada M. Degawa	Decrease in Serum Thyroxine Level by Phenobarbital in Rats is not Dependent on Increase in Hepatic UDP-Glucuronosyltransferase	Drug Metabolism and Disposition, 33, 1608-1612 (2005)
M. Ikeda K. Kida S. Ikushiro M. Sakaguchi	Manipulation of Membrane Protein Topology by Specific Ligand on the Endoplasmic Reticulum in Living Cells	Journal of Biochemistry, 138, 613-617 (2005)

<p>I. Sato N.Yamamoto H.Yamazaki S.Hashimoto M.Hino F.Sakai A.Fujie</p> <p>M.Kobayashi S.Yoshimura T.Kinoshita M.Hashimoto S.Hashimoto S.Takase A.Fujie M.Hino Y.Hori</p>	<p>Prevention of cryptic epitope, SLAYGLR within osteopontin does not influence the susceptibility towards <i>Candida albicans</i>.</p> <p>FR207944, an Antifungal Antibiotic from <i>Chaetomium</i> sp. No. 217 II. Isolation and Structure Elucidation.</p>	<p>Antimicrobial Agents and Chemotherapy, 49, 3053-3055 (2005)</p> <p>Bioscience, Biotechnology and Biochemistry, 69, 1029-1032 (2005)</p>
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