

System Analysis Group

2007 Paper

	Title	Researchers	Journal
1	Economic Evaluation of the Geological Storage of CO ₂ Considering the Scale of Economy	K. Akimoto, M. Takagi T. Tomoda	International Journal of Greenhouse Gas Control, Volume 1, No. 2, Pages 271-279 (April 2007)
2	Public Perceptions on the Acceptance of Geological Storage of Carbon Dioxide and Information Influencing the Acceptance	K. Tokushige, K. Akimoto T. Tomoda	International Journal of Greenhouse Gas Control, Volume 1, No. 1, Pages 101-112 (April 2007)
3	Evaluation of Energy Saving and CO ₂ Emission Reduction Technologies in Energy Supply and End-use Sectors Using a Global Energy Model	J. Oda, K. Akimoto F. Sano, T. Homma T. Tomoda	IEEJ Transactions of Electrical & Electronic Engineering, Volume 2, No. 1, Pages 72-83 (January 2007)
4	Diffusion of Energy Efficient Technologies and CO ₂ Emission Reductions in Iron and Steel Sector	J. Oda, K. Akimoto F. Sano, T. Tomoda	Energy Economics, Volume 29, No. 4, Pages pp. 599-998 (July 2007)
5	Public Acceptance and Risk-benefit Perception of CO ₂ Geological Storage for Global Warming Mitigation in Japan	K. Tokushige, K. Akimoto T. Tomoda	Mitigation and Adaptation Strategies for Global Change, Vol.12, No.7, 1381-2386, 2007.
6	Economic Evaluation of the Geological Storage of CO ₂ in Japan	K. Akimoto, M. Takagi	Shigen Sozai Gakkai, 『Journal of the Mining and Materials Proceeing Institute of Japan』 (in Press)

2007 Oral Presentaion

	Title	Researchers	Forum
1	Evaluation of Impacts on Water Recourses due to Global Warming	A. Hayashi, F. Sano K. Akimoto, S. Mori T. Tomoda	23rd Conference on Energy, Economy, and Environment 25-26, January, 2007
2	Evaluation of technological options for mitigating climate change in transportation sector with world energy systems model	F. Sano, K. Akimoto J. Oda, T. Tomoda	23rd Conference on Energy, Economy, and Environment 25-26, January, 2007
3	Evaluations of CO ₂ Emission Reductions in Power, Steel and Cement Sectors under the Asia-Pacific Partnership	J. Oda, K. Akimoto F. Sano, T. Tomoda	23rd Conference on Energy, Economy, and Environment 25-26, January, 2007
4	Evaluations of global warming mitigation policies considering changes in structures of sectoral and regional production and trade	T. Homma, S. Mori K. Akimoto, Y. Murota T. Tomoda	23rd Conference on Energy, Economy, and Environment 25-26, January, 2007
5	Evaluation of CO ₂ emission reduction effect of energy efficiency improvement in transport sector	F. Sano, K. Akimoto J. Oda, T. Tomoda	26th Annual Meeting of Japan Society of Energy and Resources 13-14, June, 2007
6	Evaluations of CO ₂ Emission Reductions in Steel Sector under frameworks related to the Asia-Pacific Partnership	J. Oda, K. Akimoto F. Sano, T. Tomoda	26th Annual Meeting of Japan Society of Energy and Resources 13-14, June, 2007
7	Desirable long-term stabilization targets -An expert judgment of quantitative and qualitative aspects-	J. Oda, K. Akimoto, A. Hayashi T. Homma, F. Sano T. Tomoda, S. Mori	SRA-JAPAN Annual Conference, Volume20 17-18, November, 2007
8	Sectoral economic impacts of CO ₂ mitigation policies under different levels of stabilization targets:A study with the hybrid model DEARS	T. Homma, K. Akimoto T. Tomoda, S. Mori Y. Murota	10th Annual Conference on Global Economic Analysis (GTAP2007 Conference), 7-9, June, 2007
9	CO ₂ Emission Reduction Effect and Cost of Diffusion of Energy Efficient Technologies in Transport Sector	F. Sano, K. Akimoto J. Oda, T. Tomoda	International Energy Workshop 2007, 25-27, June, 2007

2007 Non-Journal Publication

	Title	Researchers	Magazine, Newspaper, etc.
1	Outlook of Global Warming Impacts, Mitigations and Adaptations and the Suggestions	K. Akimoto	The Japanese Geotechnical Society, 『Soils and Foundations』
2	Consider also Mitigation Costs - Global Agreement is a Top Priority	K. Akimoto	Nihon Keizai Shimbun, June 2007

Chemical Research Group

2007 Original Paper

	Title	Researchers	Journal
1	PAMAM Dendrimer Composite Membrane for CO ₂ separation: Formation of a Chitosan Gutter Layer	T. Kouketsu, S. Duan, T. Kai, S. Kazama, K. Yamada	Journal of MEMBRANE SCIENCE 287 51-59 (2007)
2	Preparation and CO ₂ separation properties of amine-modified mesoporous silica membranes	Y. Sakamoto, K. Nagata, K. Yogo, K. Yamada	Microporous and Mesoporous Materials 101 303-311 (2007)
3	Experimental Investigation on Diesel PM Removal Using Uneven DBD Reactors	S. Yao, K. Madokoro, C. Fushimi, Y. Fujioka	AIChE JOURNAL VOL.53, No.7 1891-1897 (2007)
4	Stability of Gel-supported Facilitated Transport Membrane for Carbon Dioxide Separation from Model Flue Gas	K. Okabe, N. Matsumiya, H. Mano	Separation and Purification Technology 57 242-249 (2007)

2007 International Oral Presentation

	Title	Researchers	Forum
1	Recent Development of CO ₂ Separation technologies for CCS	Y. Fujioka	Gordon Research Conference, Hydrocarbon Resources, Venture 11 January 2007
2	Development of Molecular Gate Membrane for CO ₂ Capture	S. Kazama	CSLF Workshop Paris 27 March 2007
3	Evaluation of Absorption Characteristics of Single Amines and Development of New Amine Blends	K. Goto	10th International CO ₂ Capture Network, Lyon 24 May 2007
4	A Single Channel Discharge Reactor for the Diagnosis of Dielectric Barrier Discharge Reactors	S. Yao, Y. Fujioka S. Yamamoto, K. Madokoro, C. Fushimi, Y. Fujioka	The 34th IEEE International Conference on Plasma Science, Albuquerque 19 July 2007
5	PAMAM Dendrimer Composite Membrane for CO ₂ Separation: Addition of Hyaluronic Acid in Gutter Layer and Application of Novel Hydroxyl PAMAM Dendrimer	S. Duan, F. A. Chowdhury, T. Kai, S. Kazama, Y. Fujioka	4rd Conference of Aseanian Membrane Society, Taipei 16 August 2007
6	Influence of Pulse Voltage Waveforms on Ozone Generation	S. Yao, S. Kodama,	20th Pulsed Power Symposium, Didcot 18 September 2007
7	Development of Innovative Gas Separation Membranes through Sub-Nanoscale Materials Control-Development of Novel Carbon Membranes	T. Kai, S. Kazama, Y. Fujioka	GCEP Research Symposium, Palo Alto 3 October 2007
8	Development of Innovative Gas Separation Membranes through Sub-Nanoscale Materials Control-Inorganic CO ₂ separation membranes-	K. Uoe, M. Miyamoto, N. Yamamoto, K. Yogo, Y. Fujioka	GCEP Research Symposium, Palo Alto 3 October 2007
9	Development of Innovative Gas Separation Membranes Through Sub-Nanoscale Materials Control	Y. Fujioka	GCEP Research Symposium, Palo Alto 3 October 2007
10	CO ₂ Molecular Gate Membrane Challenge to CO ₂ Capture from Pressurized Gas Stream	S. Kazama, T. Kai, I. Taniguchi, S. Duan, F. A. Chowdhury, Y. Fujioka	4th Trondheim Conference on CO ₂ capture, Transport and Storage, Trondheim 16 October 2007
11	Separation and recovery of carbon dioxide by a membrane flash process	K. Okabe, H. Mano, Y. Fujioka	4th Trondheim Conference on CO ₂ capture, Transport and Storage, Trondheim 16 October 2007
12	A New Uneven Dielectric Barrier Discharge Reactor for Removal of Diesel Particulate Matter	S. Kodama, S. Yao, C. Fushimi, S. Yamamoto, C. Mine, Y. Fujioka, K. Madokoro, Y. -H. Kim, K. Naito	2007 AIChE Annual Meeting, Salt Lake 6 November 2007
13	Novel Polymeric Gas Separation Membranes for CO ₂ Capture	S. Kazama	International Symposium on Environment, Energy and Materials (KIFEE) Otsu, Japan, 6 December 2007

CO Storage Research Group

2007 Original Paper [CO Geological Storage Project]

	Title	Researchers	Journal
1	Seismic monitoring and modelling of supercritical CO ₂ injection into a water-saturated sandstone: interpretation of P-wave velocity data	Ji-Quan Shi, Ziqiu Xue, Sevjet Durucan	International Journal of Greenhouse Gas Control, Vol. 1, No.3, October, 2007
2	Economic Evaluation for the Geological Storage of CO ₂ Considering the Scale of Economy	Keigo Akimoto, Masato Takagi, Toshimasa Tomoda	International Journal of Greenhouse Gas Control, Vol.1, No.2, April, 2007
3	Case study of geochemical reactions at the Nagaoka CO ₂ injection site, Japan	Saeko Mito, Ziqiu Xue, Takashi Ohsumi	International Journal of Greenhouse Gas Control, in press
4	Pressure transient analysis of a long-term supercritical CO ₂ injection experiment at Nagaoka Japan	Ronald Horne, Ziqiu Xue	Energy Conversion and Management, 査読中
5	Modeling and Analysis of the Pressure Response in the CO ₂ Injection Experiment Conducted at Iwanohara, Niigata Prefecture, Japan	Sephen White, Ziqiu Xue, Tetuya Saito	International Journal of Greenhouse Gas Control, 査読中
6	Case Story: Time-Lapse Seismic Crosswell Monitoring of CO ₂ injected in an Onshore Sandstone Aquifer	Jespe Spetzler, Ziqiu Xue, Hideki Saito, Dai Nobuoka, Hiroyuki Azuma, Osamu Nishizawa	Geophysical Journal International, in press

2007 Articles [CO Geological Storage Project]

	Title	Researchers	Journal
1	Japan's first pilot-scale saline aquifer CO ₂ injection experiment	Ziqiu Xue	Greenhouse Issues, Vol. 86, June, 2007
2	Development of CO ₂ geological storage technology	Shigeo Murai	Economy, Culture & History JAPAN SPOTLIGHT Bimonthly, Setember/October, 2007

2007 Oral Presentation [CO Geological Storage Project]

	Title	Researchers	Forum
1	Pilot CO ₂ injection into an onshore aquifer in Nagaoka, Japan	Susumu Kimishima	Sour Oil & Gas Advanced Technology 2007, 3rd International Conference, Workshop & Exhibition, incorporation the International CO ₂ Forum, April, 2007
2	Evaluation of CO ₂ geochemical reactions at an onshore saline aquifer, Nagaoka, Japan	Saeko Mito, Ziqiu Xue, Takashi Ohsumi	European Geosciences Union General Assembly, April, 2007
3	Experimental study of residual CO ₂ saturation in the sandstones with different pore structures	Keigo Kitamura, Ziqiu Xue	Sixth annual conference of carbon capture & sequestration, May, 2007
4	Laboratory measurements of resistivity and SP for monitoring of CO ₂ storage	Kenji Kubota, Koichi Suzuki, Ziqiu Xue	SEG Conference, November, 2007
5	Japanese CO ₂ Storage initiatives and J-Power's R & D activities	Shigetaka Nakanishi	Callide Oxyfuel Project-CO ₂ Storage Site Selection Workshop, Maech, 2007
6	Time-lapse CO ₂ monitor logging at the first pilot-scale CO ₂ injection site in Japan	Ziqiu Xue, Daiji Tanase, Jiro Watanabe	The Challenges in Seismic Rock Physics, June, 2007
7	Assessment of geochemical reactivity of rocks at the Niigata CO ₂ injection test site, Niigata, Japan	Masao Sorai, Yasuko Okuyama, Toshiyuki Toshi, Saeko Mito, Takashi Ohsumi	Water Rock Interaction, July, 2007
8	Formation-water database on saline aquifers in Japan: toward geochemical modeling in underground sequestration of CO ₂	Y. Okuyama, M. Sasaki, M. Sorai, N. Kaneko, H. Muraoka, N. Yanagisawa, T. Toshi	WRI-12(12th international symposium on water-rock interaction), August, 2007
9	Assessment of geochemical reactivity of rocks at the Nagaoka CO ₂ injection test site, Niigata, Japan	M. Sorai, Y. Okuyama, T. Toshi, S. Mito, T. Ohsumi	WRI-12(12th international symposium on water-rock interaction), August, 2007
10	Hot-springs associated with calcareous deposits in Japan, and their implications for future CO ₂ underground geological storage	M. Sasaki, Y. Okuyama, M. Sorai, N. Kaneko, N. Yanagisawa	WRI-12(12th international symposium on water-rock interaction), August, 2007

2007 Others [CO Geological Storage Project]

	Title	Researchers	Forum
1	Overview of Japan's First Pilot-Scale Saline Aquifer CO ₂ Injection Experiment	Ziqi Xue, Hideaki Saito, Jiro Watanabe	Post-Convention Workshop (CO ₂ Sequestration Monitoring) SEG 2007, September, 2007
2	CO ₂ Saturation and Movement during Post-Injection Period, Nagaoka Project	Tsukasa Yoshimura, Koji Kano, Jiro Watanabe, Hiroyuki Azuma, Ziqi Zue, Saeko Mito	4th Monitoring Network Meeting of IEA, November, 2007
3	Monitoring Concept for the R&D CCS in Japan	Daiji Tanase, Koji Kano, Hironori Furukawa	4th Monitoring Network Meeting of IEA, November, 2007

2007 Original Paper [CO Ocean Sequestration Project]

	Title	Researchers	Journal
1	CO ₂ tolerance of juveniles of three marine invertebrates, <i>Sepia lycidas</i> , <i>Sepioteuthis lessoniana</i> , and <i>Marsupenaeus japonicus</i>	Takashi Kikkawa, Yuji Watanabe, Youichi Katayama, Jun Kita, and Atsushi Ishimatsu	Plankton and Benthos Research, submitted
2	A numerical study with an eddy-resolving model to evaluate chronic impacts in CO ₂ ocean sequestration	Yoshio Masuda, Yasuhiro Yamanaka, Yoshikazu Sasai, Michimasa Magi	International Journal of Greenhouse Gas Control 2007

2007 Oral Presentation [CO Ocean Sequestration Project]

	Title	Researchers	Forum
1	CO ₂ Ocean Sequestration by Dissolution Method-Biological Impact Modelling and Trial of Risk Communication	Toru Sato	International Symposium on CO ₂ Storage 2007.3
2	Time Domain VIV Analysis of Inclined Towed Pipe Based on Lookup Table of VIV Hydrodynamic Force	Hideyuki Suzuki, Junichi Minamiura, Masahiko Ozaki	Fifth Conference on Bluff Body Wakes and Vortex-Induced Vibrations, 2007, Brasil
3	Emission of CO ₂ from seafloor hydrothermal systems at Mariana Trough	K. Shitasima, and Y. Maeda	2007 AGU Fall Meeting

Microbiology Research Group

2007 Original Paper

	Title	Researchers	Journal
1	Synthesis of <i>Clostridium cellulovorans</i> minicellulosomes by intercellular complementation.	T. Arai, S. Matsuoka, H-Y. Cho, H. Yukawa, M. Inui, S-L. Wong and R.H. Doi.	Proc. Natl. Acad. Sci. USA. 104:1456-1460. 2007.
2	Efficient induction of formate hydrogen lyase of aerobically grown <i>Escherichia coli</i> in a three-step biohydrogen production process.	A. Yoshida, T. Nishimura, H. Kawaguchi, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 74:754-760. 2007.
3	Effect of lignocellulose-derived inhibitors on growth of and ethanol production by growth-arrested <i>Corynebacterium glutamicum</i> R.	S. Sakai, Y. Tsuchida, H. Nakamoto, S. Okino, O. Ichihashi, H. Kawaguchi, T. Watanabe, M. Inui and H. Yukawa.	Appl. Environ. Microbiol. 73:2349-2353. 2007.
4	Random segment deletion based on IS 31831 and Cre/loxP excision system in <i>Corynebacterium glutamicum</i> .	Y. Tsuge, N. Suzuki, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 74:1333-1341. 2007.
5	Comparative analysis of the <i>Corynebacterium glutamicum</i> group and complete genome sequence of strain R.	H. Yukawa, C.A. Omumasaba, H. Nonaka, P. Kós, N. Okai, N. Suzuki, M. Suda, Y. Tsuge, J. Watanabe, Y. Ikeda, A.A. Vertès and M. Inui.	Microbiology. 153:1042-1058. 2007.
6	Anaerobic growth of <i>Corynebacterium glutamicum</i> using nitrate as a terminal electron acceptor.	T. Nishimura, A.A. Vertès, Y. Shinoda, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 75:889-897. 2007.
7	Expression of <i>Corynebacterium glutamicum</i> glycolytic genes varies with carbon source and growth phase.	S.O. Han, M. Inui and H. Yukawa.	Microbiology 153:2190-2202. 2007.
8	Transcriptional profiling of <i>Corynebacterium glutamicum</i> metabolism during organic acid production under oxygen deprivation conditions.	M. Inui, M. Suda, S. Okino, H. Nonaka, L.G. Puskás, A.A. Vertès and H. Yukawa.	Microbiology 153:2491-2504. 2007.
9	Isolation of a new insertion sequence, IS 13655, and its application to <i>Corynebacterium glutamicum</i> genome mutagenesis.	Y. Tsuge, N. Suzuki, K. Ninomiya, M. Inui and H. Yukawa.	Biosci. Biotechnol. Biochem. 71:1683-1690. 2007.
10	Alternative technologies for biotechnological fuel ethanol manufacturing.	A.A. Vertès, M. Inui and H. Yukawa.	J. Chem. Technol. Biotechnol. 82:693-697. 2007.
11	Transcriptionally regulated <i>adhA</i> gene encodes alcohol dehydrogenase required for ethanol and <i>n</i> -propanol utilization in <i>Corynebacterium glutamicum</i> R.	A. Kotrbova-Kozak, P. Kotrba, M. Inui, J. Sajdok and H. Yukawa.	Appl. Microbiol. Biotechnol. 76:1347-1356. 2007.
12	Synergistic interaction of <i>Clostridium cellulovorans</i> cellulosomal cellulases and HbpA.	S. Matsuoka, H. Yukawa, M. Inui and R.H. Doi.	J. Bacteriol. 189:7190-7194. 2007.
13	Analyses of the acetate-producing pathways in <i>Corynebacterium glutamicum</i> under oxygen-deprived conditions.	K. Yasuda, T. Jojima, M. Suda, S. Okino, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 77:853-860. 2007.
14	Site-directed integration system using a combination of mutant <i>lox</i> sites for <i>Corynebacterium glutamicum</i> .	N. Suzuki, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 77:871-878. 2007.
15	Effect of the multiple copies of cohesins on cellulase and hemicellulase activities of <i>Clostridium cellulovorans</i> minicellulosome.	J. Cha, S. Matsuoka, H. Chan, H. Yukawa, M. Inui and R.H. Doi.	J. Microbiol. Biotechnol. 17:1782-1788. 2007.
16	Regulation of the expression of phosphoenolpyruvate: carbohydrate phosphotransferase system (PTS) genes in <i>Corynebacterium glutamicum</i> R.	Y. Tanaka, N. Okai, H. Teramoto, M. Inui and H. Yukawa.	Microbiology 154:264-274. 2008.
17	Engineering of an L-arabinose metabolic pathway in <i>Corynebacterium glutamicum</i> .	H. Kawaguchi, M. Sasaki, A.A. Vertès, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 77:1053-1062. 2008.
18	DivS, a novel SOS inducible cell-division suppressor in <i>Corynebacterium glutamicum</i> .	H. Ogino, H. Teramoto, M. Inui and H. Yukawa.	Mol. Microbiol. 67:597-608. 2008.
19	Production of isopropanol by metabolically engineered <i>Escherichia coli</i> .	T. Jojima, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 77:1219-1224. 2008.
20	Expression of <i>Clostridium acetobutylicum</i> butanol synthetic genes in <i>Escherichia coli</i> .	M. Inui, M. Suda, S. Kimura, K. Yasuda, H. Suzuki, H. Toda, S. Yamamoto, S. Okino, N. Suzuki and H. Yukawa.	Appl. Microbiol. Biotechnol. 77:1305-1316. 2008.
21	Technological options for biological fuel ethanol.	A.A. Vertès, M. Inui and H. Yukawa.	J. Mol. Microbiol. Biotechnol. (in press)
22	Transcription of <i>Corynebacterium glutamicum</i> genes involved in tricarboxylic acid cycle and glyoxylate cycle.	S.O. Han, M. Inui and H. Yukawa.	J. Mol. Microbiol. Biotechnol. (in press)

	Title	Researchers	Journal
23	Regulation of expression of general components of the phosphoenolpyruvate:carbohydrate phosphotransferase system (PTS) by the global regulator SugR in <i>Corynebacterium glutamicum</i>	Y. Tanaka, H. Teramoto, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 78:309-318. 2008
24	Production of D-lactic acid by <i>Corynebacterium glutamicum</i> under oxygen deprivation.	S. Okino, M. Suda, K. Fujikura, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 78:449-454. 2008

2007 International Oral Presentation

	Title	Researchers	Forum
1	Ethanol Producing using RITE Bioprocess.	H. Yukawa	The 4th World Congress on Industrial Biotechnology and Bioprocessing, 22 March 2007.
2	Ethanol production from mixed sugars by genetically engineered <i>Corynebacterium glutamicum</i> .	S. Okino, S. Sakai, H. Kawaguchi, M. Sasaki, M. Suda, M. Inui and H. Yukawa.	The 4th World Congress on Industrial Biotechnology and Bioprocessing, 21-24 March 2007.
3	Ethanol production from mixed sugars derived from lignocellulosic biomass by the RITE bioprocess.	H. Yukawa	AIChE Spring National Meeting, 24 April 2007.
4	Improved ethanologenic <i>Corynebacterium glutamicum</i> strains for fuel ethanol production from lignocellulosic biomass.	H. Teramoto, H. Kawaguchi, S. Okino, M. Inui and H. Yukawa.	The 29th Symposium on Biotechnology for Fuels and Chemicals, 29 April-2 May 2007.
5	Ethanol production from lignocellulosic biomass by the RITE bioprocess.	H. Yukawa	BIO 2007 International Convention, 7 May, 2007.
6	Regulation of the expression of phosphoenolpyruvate: Carbohydrate phosphotransferase system (PTS) genes in <i>Corynebacterium glutamicum</i> R.	Y. Tanaka, N. Okai, H. Teramoto, M. Inui and H. Yukawa.	American Society for Microbiology 107th General Meeting, 21-25 May 2007.
7	Identification of a novel SOS inducible cell-division inhibitor in <i>Corynebacterium glutamicum</i> .	H. Ogino, H. Teramoto, M. Inui and H. Yukawa.	American Society for Microbiology 107th General Meeting, 21-25 May 2007.
8	Anaerobic growth of <i>Corynebacterium glutamicum</i> using nitrate as a terminal electron acceptor.	T. Nishimura, A.A. Vertès, Y. Shinoda, M. Inui and H. Yukawa.	American Society for Microbiology 107th General Meeting, 21-25 May 2007.
9	Enhanced biohydrogen production from biomass-derived substrates.	A. Yoshida, M. Inui, and H. Yukawa.	SIM Annual Meeting, 31 July 2007.
10	Efficient ethanol production from glucose and xylose mixture using growth-arrested <i>Corynebacteria</i> .	S. Sakai, M. Sasaki, M. Suda, S. Okino, T. Jyojima, Y. Tsuchida, M. Inui and H. Yukawa.	234th ACS National Meeting, 19-23 August 2007.
11	Production of D-lactic acid by the RITE bioprocess using genetically engineered <i>Corynebacterium glutamicum</i> .	S. Okino, M. Suda, M. Inui and H. Yukawa.	234th ACS National Meeting, 19-23 August 2007.
12	Engineering of an L-arabinose metabolic pathway in <i>Corynebacterium glutamicum</i> .	M. Sasaki, H. Kawaguchi, S. Okino, T. Jyojima, M. Inui and H. Yukawa.	234th ACS National Meeting, 19-23 August 2007.
13	Transcriptional profiling of <i>Corynebacterium glutamicum</i> metabolism during organic acid production under oxygen deprivation conditions.	M. Suda, S. Okino, H. Nonaka, L.G. Puskás, A.A. Vertès, M. Inui and H. Yukawa.	2007 AIChE Annual Meeting, 4-9 November 2007.
14	Analyses and suppression of acetate formation for development of efficient biorefining process by growth-arrested <i>Corynebacteria</i> .	K. Yasuda, T. Jyojima, M. Suda, S. Okino, M. Inui and H. Yukawa.	2007 AIChE Annual Meeting, 4-9 November 2007.
15	Ethanol production from mixed sugars derived from lignocellulosic biomass by the "RITE-bioprocess" using <i>Corynebacteria</i>	H. Yukawa	2007 Pacific Rim Summit on Industrial Biotechnology and Bioenergy, 14 November 2007.
16	Production of biofuels from soft biomass by the RITE Bioprocess	H. Yukawa	Asia Biofuels Conference & EXPO V, 13 December 2007.

2007 International Publication etc.

	Title	Researchers	Journal
1	Genomes and Genome-Level Engineering of Amino Acid-Producing Bacteria.	H. Yukawa, M. Inui and A.A. Vertès.	Amino Acid Biosynthesis Pathways, Regulation and Metabolic Engineering

Plant Research Group

2007 Paper

	Title	Researchers	Journal
1	Histidine kinases plays important roles in the perception and signal transduction of H ₂ O ₂ in the cyanobacterium, <i>Synechocystis</i> .	Y. Kanesaki, H. Yamamoto, K. Paithoonrangsarid, M. Shoumskaya, I. Suzuki, H. Hayashi, N. Murata	The Plant Journal 49(2): 313-324
2	Overexpression of Ferredoxin in Tobacco Chloroplasts stimulates Cyclic Electron Flow around Photosystem I (CEF-PSI) and enhances Non-Photochemical Quenching (NPQ) of Chl Fluorescence	H. Yamamoto, C. Miyake	Photosynthesis 2007 Proceedings "Photosynthesis: Energy from the Sun"
3	Relationship between mesophyll conductance to CO ₂ diffusion and contents of aquaporin localized at plasma membrane in tobacco plants grown under drought conditions.	Shin-Ichi Miyazawa, Satomi Yoshimura, Yuki Shinzaki, Masayoshi Maeshima, Chikahiro Miyake	In "Photosynthesis: Energy from the Sun". pp. 809-812. Springer (Dordrecht). 2008.

2007 Meeting

	Title	Researchers	Meeting
1	Stimulation of Cyclic Electron Flow around Photosystem I (CEF-PSI) by Overexpression of Ferredoxin in Transplastomic Tobacco enhances Non-Photochemical Quenching (NPQ) of Chlorophyll Fluorescence	H. Yamamoto, C. Miyake	Plant Biology & Botany 2007 Joint Congress (Chicago, USA)
2	Overexpression of Ferredoxin in Tobacco Chloroplasts stimulates Cyclic Electron Flow around Photosystem I (CEF-PSI) and enhances Non-Photochemical Quenching (NPQ) of Chl Fluorescence.	H. Yamamoto, C. Miyake	Photosynthesis 2007 (Glasgow, Scotland)
3	Internal resistance to CO ₂ diffusion in the leaves and its relationship with water-use efficiency under drought	Shin-Ichi Miyazawa, Satomi Yoshimura, Yuki Shinzaki, Masayoshi Maeshima, Chikahiro Miyake	Phenotypic plasticity in response to environmental change: from the molecular to ecosystem level. Oct 23-26 2007. Tochigi, Japan.