

Systems Analysis Group

■ 2006 Paper

	Title	Researchers	Journal
1	Analysis of Technological Portfolios for CO ₂ Stabilizations and Effects of Technological Changes	F. Sano, K. Akimoto T. Homma, T. Tomoda	The Energy Journal
2	Development of a multi-regional and multi-sectoral energy-economic model and assessment of the global warming mitigation policy	T. Homma, S. Mori K. Akimoto, T. Tomoda	The Energy Journal (International association for energy economics)
3	Integrated Assessment of global Warming Issues and an Overview of Project PHOENIX – A Comprehensive Approach	S. Mori, K. Akimoto, T. Homma F. Sano, J. Oda A. Hayashi, K. Dowaki, T. Tomoda	IEEJ Transactions of Electrical & Electronic Engineering
4	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
5	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
6	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
7	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

■ 2006 Oral Presentaion

	Title	Researchers	Forum
1	An Integrated Assessment of Global Warming-Project Phoenix	S. Mori, K. Akimoto, F. Sano A. Hayashi, T. Homma J. Oda, T. Tomoda	22th Conference on Energy System, Economy and Environment 26-27, January, 2006
2	Current Status of Legal Aspects on CO ₂ Geological Storage	K. Tokushige, T. Ohsumi	22th Conference on Energy System, Economy and Environment 26-27, January, 2006
3	Evaluation of technological options for mitigating climate change in paper & pulp industrial sector with a world energy system model	F. Sano, K. Akimoto J. Oda, T. Homma T. Tomoda	22th Conference on Energy System, Economy and Environment 26, January, 2006
4	Evaluation of Global Impact on Agriculture under Several GHG Emission Scenarios	K. Akimoto, F. Sano S. Mori, T. Tomoda	22th Conference on Energy System, Economy and Environment 26-27, January, 2006
5	Cost Analysis of CO ₂ Geological Storage in Japan	K. Akimoto, T. Ohsumi	22th Conference of Energy System, Economy and Environment 26-27, January, 2006
6	Effects of Transfer and Diffusion of Energy Efficient Technologies in Industrial Sectors on CO ₂ Emission Reduction	K. Akimoto	The Workshop on Globalization, Technology Transfer, and Energy-Efficiency of Energy Intensive Industries in Asia (START, UNU, IHDP) 12-13, January, 2006
7	Evaluations of Global Warming Mitigation Policy Using a Multi-sectoral and Multi-regional Energy-economic Model	T. Homma, S. Mori K. Akimoto, T. Tomoda	22th Conference on Energy System, Economy and Environment 26-27, January, 2006
8	Evaluations of Technological Options for Mitigating Climate Change in Iron & Steel Sector with a World Energy System Model	J. Oda, K. Akimoto F. Sano, T. Homma T. Tomoda	22th Conference on Energy System, Economy and Environment 26, January, 2006
9	Long-term Traget of GWM and Integrated Assessment	T. Tomoda	3rd International Workshop on Integrated Climate Models: An interdisciplinary assessment of climate impacts and policies 12-13, January, 2006
10	Evaluation of Global Warming Impact on Human Health	A. Hayashi, K. Akimoto, F. Sano S. Mori and T. Tomoda	25th Meeting on Energy and Resources 9, June, 2006
11	Economic Evaluation for CO ₂ Geological Storage Considering the Scale of Economy	K. Akimoto, M. Takagi Y. Hirota, T. Ohsumi Y. Mizuno, T. Tomoda	8th International Conference on Greenhouse Gas Control Technologies 20, June, 2006
12	Public perceptions on the acceptance of CO ₂ geological storage and the valuable information for the acceptance	K. Tokushige, K. Akimoto T. Tomoda	8th International Conference on Greenhouse Gas Control Technologies 19-22, June, 2006
13	Contribution to Climate Change by Region and Brazil Proposal (3)	A. Kurosawa, T. Tomoda	Annual Meeting on Environmnet and Economy Policy Society (2006) 4-7, July, 2006
14	Evaluation of Global Warming Mitigation Technology in Consideration of ITAcceleration	T. Homma, S. Mori, K. Akimoto T. Tomoda	25th Meeting on Energy and Resources 9-10, June, 2006
15	Evaluation of Global Warming Mitigation Policies with a Dynamic World Energy-economic Model Considering Changes in Industrial Structures by IT Penetration	T. Homma, S. Mori K. Akimoto, T. Tomoda	9th Annual Conference on Global Economic Analysis (GTAP 2006 conference) 15-17, June, 2006

	Title	Researchers	Forum
16	Evaluation of global warming mitigation policies considering changes in industrial structures and IT penetration	T. Homma, S. Mori K. Akimoto, Y. Murota T. Tomoda	Intermediate Input-Output Meetings 2006 on Sustainability, Trade & Productivity (IIOA 2006 conference) 26-28, July, 2006
17	An impact analysis on greenhouse gases including an effect of non-CO ₂ emissions.	K. Dowaki, K. Akimoto F. Sano, T. Tomoda S. Mori	Operation Research Society 6, September, 2006
18	International Cooperation on Technology-oriented Measures for Global Warming and Effect of CO ₂ Emission Reduction	K. Akimoto	Symposium on Innovative Environment Technology (RITE) 5, October, 2006 (Osaka) 18, October, 2006 (Tokyo)
19	Transition to LCS: effects of technology diffusions in both energy supply side and demand side	K. Akimoto	The Annual Energy Modelling Conference of the UKERC 6, December, 2006
20	Integrated Assessment PHOENIX – Land-use Modeling and Global Warming Impacts on Agriculture –	K. Akimoto, S. Mori T. Tomoda	Energy Modeling Forum (EMF) 22: Climate Policy Scenarios for Stabilization and In Transition, 14, December, 2006
21	Which is more effective, the setting-up of a series of short-term targets or a long-term target of emission reductions?	K. Akimoto	Japan/US Workshop on Technology Development and Policy 17, October, 2006
22	Evaluations of Technological Options for Mitigating Climate Change in Steel and Cement Sectors with a World Energy Systems Model	J. Oda, K. Akimoto F. Sano, T. Homma T. Tomoda	25th Meeting on Energy and Resources 9, June, 2006

■ 2006 Non-Journal Publication

	Title	Researchers	Magazine, Newspaper, etc.
1	Economic Developments of China and India and their Impacts on Global Energy and CO ₂ Emission	S. Mori, T. Homma and Y. Murota	Weekly Economist
2	CO ₂ Storage for Global Warming Mitigation (Chapter 1)	K. Akimoto	Illustrative Introduction to CO ₂ Storage

Chemical Research Group

■ 2006 Original Paper

	Title	Researchers	Journal
1	CO ₂ separation by membrane/absorption hybrid method	K. Okabe, M. Nakamura, H. Mano M. Teramoto, K. Yamada	Studies in Surface Science and Catalysis, 159 409–412 (2006)
2	Uneven dielectric barrier discharge reactors for diesel particulate matter removal	S. Yao, C. Fushimi, K. Madokoro K. Yamada	Plasma Chemistry and Plasma Processing, (26) 481–493 (2006)
3	A Novel High-Voltage Power Generator for Diesel Exhaust Gas Treatment	M. Okumoto, S. Yao, K. Madokoro E. Suzuki, T. Yashima	Recent Advances in Multidisciplinary Applied Physics, 291–295(2006) Elsevier
4	Diagnostics of a Pulsed Plasma Discharge	S. Yao, M. Okumoto, T. Yashima E. Suzuki	Recent Advances in Multidisciplinary Applied Physics, 313–317(2006) Elsevier
5	Development of PAMAM Dendrimer Composite Membrane for CO ₂ Separation	S. Duan, T. Kouketsu, S. Kazama K. Yamada	J. Membrane Sci, 283 2–6 (2006)

■ 2006 Oral Presentation

	Title	Researchers	Forum
1	Development of PAMAM Dendrimer Composite Membrane for CO ₂ Separation	T. Kai, S. Duan, T. Kouketsu S. Matsui, S. Kazama, K. Yamada	North American Membrane Society (NAMS) 17th Annual Meeting, Chicago 17 May 2006
2	Novel Absorbents for CO ₂ Capture from gas stream	K. Goto	9th International CO ₂ Capture Network, Copenhagen 16 June 2006
3	Separation and recovery of CO ₂ by membrane/absorption hybrid method	H. Mano, K. Okabe, M. Nakamura M. Teramoto, K. Yamada	GHGT-8, Trondheim 20 June 2006
4	Novel Absorbents for CO ₂ Capture from gas stream	S. Shimizu, M. Onoda, K. Goto K. Yamada, T. Mimura	GHGT-8, Trondheim 20 June 2006
5	Molecular gate functionalized dendrimer membrane for CO ₂ capture	S. Kazama, T. kai, T. Kouketsu S. Duan, F.A. Chowdhury K. Yamada	GHGT-8, Trondheim 21 June 2006
6	Design and Evaluation of a New CO ₂ Fixation Process Using Alkaline-earth Metal Wastes	S. Kodama, K. Yogo, K. Yamada T. Nishimoto	GHGT-8, Trondheim 21 June 2006
7	Preparation and CO ₂ separation properties of amine modified mesoporous silica membrane	Y. Sakamoto, K. Yogo, K. Yamada K. Nagata	Symposium on Zeolites and Microporous Crystals, Yonago 1 August 2006
8	Development of PAMAM Dendrimer Composite Membrane for CO ₂ Separation	S. Duan, T. Kouketsu, T. Kai S. Matsui, S. Kazama, Y. Fujioka K. Yamada	3rd Conference of Aseanian Membrane Society, Beijing 25 August 2006
9	Regeneration of CO ₂ absorbent solution by accelerated desorption method	K. Okabe, H. Mano, K. Yamada	17th International Congress of Chemical and Process Engineering, Prague 29 August 2006
10	Evaluation of an uneven dielectric barrier discharge reactor for particulate matter removal from a diesel engine	C. Fushimi, K. Madokoro, S. Yao K. Yamada	11th Asian Pacific Confederation of Chemical Engineering (APCChE), Kuala Lumpur August 2006
11	Development of Innovative Gas Separation Membranes through Sub-Nanoscale Materials Control	Y. Fujioka	GCEP Research Symposium, Pittsburgh 20 September 2006
12	Development of Innovative Gas Separation Membranes through Sub-Nanoscale Materials Control	S. Kazama, T. Kai, N. Yamamoto K. Uoe, K. Yogo, Y. Fujioka K. Yamada	GCEP Research Symposium, Pittsburgh 20 September 2006 (Poster)
13	Experimental Investigation of a Molecular Gate Membrane for Separation of Carbon Dioxide from Flue Gas	S. Kazama, T. Kai, T. Kouketsu S. Matsui, K. Yamada J.S. Hoffman, H.W. Pennline	Pittsburgh Coal Conference 27 September 2006
14	Characterization of a non-thermal plasma system at atmospheric pressure	S. Yao, C. Fushimi, K. Madokoro Y. Fujioka	48th Annual Meeting of the Division of Plasma Physics, Philadelphia 1 November 2006

CO₂ Sequestration Research Group■ 2006 Original Paper [CO₂ 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, September 2006, submitted
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, July 2006(submitted), in press
3	Public Perceptions on the Acceptance of Geological Storage of Carbon Dioxide and Information Influencing the Acceptance	Kohko Tokushige, Keigo Akimoto Toshimasa Tomoda	International Journal of Greenhouse Gas Control, submitted
4	Modeling and analysis of the pressure response in the CO ₂ injection experiment conducted at Iwanohara at Nagaoka, Japan	White, s., Xue, Z. and Satp, T.	International Journal of Greenhouse Gas Control, submitted
5	Pressure transient analysis of a long-term supercritical CO ₂ injection experiment at Nagaoka, Japan	Horne, R. and Xue, Z.	Energy Conversion and Management, submitted

■ 2006 Oral Presentation [CO₂ Geological Storage Project]

	Title	Researchers	Forum
1	Modeling and Analysis of the Pressure Response in the CO ₂ Injection Experiment Conducted at Iwanohara, Niigata Prefecture, Japan	Stephen White, Ziqiu Xue Tatsuya Sato	GHGT-8(Trondheim, Norway), June 2006
2	Seismic Monitoring and Numerical Simulation of Supercritical CO ₂ Migration in Water-Saturated Sandstone	Ji-Quan Shi, Ziqiu Xue Sevjet Durucan	GHGT-8(Trondheim, Norway), June 2006
3	Experimental study on resistivity and SP monitoring during CO ₂ injection into water-saturated porous sandstone	Kerji Kubota, Koichi Suzuki and Ziqiu Xue	GHGT-8(Trondheim, Norway), June 2006
4	Time Lapse Well Logging to Monitor the Injected CO ₂ in an onshore aquifer, Nagaoka, Japan	Ziqiu Xue, Jiro Watanabe Nozomu Inoue, Daiji Tanase	GHGT-8(Trondheim, Norway), June 2006
5	Monitoring of Pilot CO ₂ Injection in Nagaoka Using Time Lapse Well Logs	Jiro Watanabe	JFES(Japan Formation Evaluation Society)55th Chapter Meeting, May 2006
6	Economic Evaluation for CO ₂ Geological Storage Considering the Scale of Economy	Keigo Akimoto, Masato Takagi Yoshitsugu Hirota, Takashi Ohsumi Yasunobu Mizuno Toshimasa Tomoda	GHGT-8(Trondheim, Norway), June 2006
7	Public perceptions on the acceptance of CO ₂ geological storage and the valuable information for the acceptance	Kohiko Tokushige, Keigo Akimoto Toshimasa Tomoda	GHGT-8(Trondheim, Norway), June 2006
8	Mineral trapping of CO ₂ at Nakagoka test site	Saeko Mito, Ziqiu Xue Takashi Osumi	GHGT-8(Trondheim, Norway), June 2006
9	Pilot CO ₂ injection into an onshore aquifer in Nagaoka, Japan and its simulation study	Daiji Tanase, Hiroshi Okuma Nozomi Inoue, Yuko Kawata Takashi Ohsumi	GHGT-8(Trondheim, Norway), June 2006
10	Time-Lapse Crosswell Seismic Tomography for Monitoring the pilot CO ₂ injection into an onshore aquifer, Nagaoka Japan	Hideki Saito, Hiroyuki Azuma Dai Nobuoka, Daiji Tanase Ziqiu Xue	GHGT-8(Trondheim, Norway), June 2006
11	An experimental study of Residual Gas Saturation of Carbon Dioxide in water-saturated porous sandstone by using multi-channel seismic wave imaging method	Keigo Kitamura, Ziqiu Xue	2006 AAPG International Conference & Exhibition, December 2006
12	Quantifying CO ₂ Saturation from Time-lapse Well Logging in An Onshore Saline Aquifer, Nagaoka, Japan	Ziqiu Xue, Jiro Watanabe Daiji Tanase	2006 AAPG International Conference & Exhibition, December 2006
13	An Overview of the Nagaoka Project	Daiji Tanase	1st CO ₂ ReMoVe-SP4 Workshop, September 2006
14	Time-lapse well logging to monitor injected CO ₂ in an aquifer at Nagaoka (Part I)	Daiji Tanase, Jiro Watanabe Ziqiu Xue, Hiroyuki Azuma	2nd Monitoring Network Meeting of IEA, October 2006

■ 2006 Oral Presentation [CO₂ Ocean Sequestration Project]

	Title	Researchers	Forum
1	Effect of High CO ₂ on Benthic Communities in the Norwegian Fjord	Hiroshi Ishida, Tatsuo Fukuhara Yuji Watanabe, Yoshihisa Shirayama and Lars Golmen	European network CO ₂ GEONET workshop 1 April
2	System Plan Considering Spare Capacity Allowed for Weather Conditions for CO ₂ Marine Transport and Release in Deep Waters	Masahiko Ozaki, Junichi Minamiura Makoto Ohta, Yuichi Sasaki Masami Matsuura	OMAE(25th International Conf.on Offshore Mechanics and Arctic Eng'g) 4-9 June 2006, Hamburg, Germany

	Title	Researchers	Forum
3	Development of environmental assessment technique for CO ₂ ocean sequestration	Kiminori Shitashima, Takashi Ohsumi	OMAE (25th International Conf.on Offshore Mechanics and Arctic Eng'g) 4-9 June 2006, Hamburg, Germany
4	A Study of Effectiveness of CO ₂ Ocean Sequestration for Acidification of the Ocean	Michimasa Magi, Shigeo Murai Masao Sorai, Takashi Ohsumi	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
5	Ecosystem model for assessment of CO ₂ effect on deep-sea planktonic communities	Kishi Yasuyuki, Yuji Watanabe Hiroshi Ishida, Kisaburo Nakata	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
6	Assess the effect of high concentration of CO ₂ on deep-sea benthic microorganisms using a benthic chamber system	Hiroshi Ishida, Tatsuo Fukuhara Yuji Watanabe, Yoshihisa Shirayama Lars Golmen	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
7	Fate of liquid CO ₂ discharged from the hydrothermal area in the Okinawa Trough	Kiminori Shitashima, Yoshiaki Maeda Yuichi Koike, Takashi Ohsumi	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
8	System Plan and Possible Merits of Locating Plural Sites for CO ₂ Ocean Storage	Masahiko Ozaki, Junichi Minamiura Kazuhisa Takeuchi, Yuichi Sasaki	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
9	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 Takashi Ohsumi	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
10	Impact assessment of high-CO ₂ environment on marine organisms	Jun Kita, Yuji Watanabe	GHGT8 (8th International Conf.on Greenhouse Gas Control technologies) 19-22 June, Trondheim, Norway
11	Preliminary study of CO ₂ ocean sequestration technology for ocean acidification control	Michimasa Magi, Shigeo Murai	WPGM (Western Pacific Geophysics Meeting 2006) 24-27 July, Beijing, China
12	Strategy of environmental assessment for CO ₂ ocean sequestration	K.Shitashima, Y.Maeda and T.Ohsumi	WPGM (Western Pacific Geophysics Meeting 2006) 24-27 July, Beijing, China
13	Natural analogue of CO ₂ dispersion at deep-sea hydrothermal system	K.Shitashima, Y.Maeda and T.Ohsumi	2006 AGU Fall Meeting 2006

Plant Research Group

■ 2006 Paper

	Title	Researchers	Journal
1	Stomatal development in new leaves is related to the stomatal conductance of mature leaves in poplar (<i>Populus trichocarpa</i> x <i>P. deltoides</i>).	S.-I. Miyazawa, N.J. Livingston D.H. Turpin	Journal of Experimental Botany 57(2): 373-380
2	Ferredoxin limits cyclic electron flow around PSI (CEF-PSI) in higher plants- Stimulation of CEF-PSI enhances non-photochemical quenching of Chl fluorescence in transplastomic tobacco-	H. Yamamoto, H. Kato, Y. Shinzaki S. Horiguchi, T. Shikanai, T. Hase T. Endo, M. Nishioka, A. Makino K.-I. Tomizawa, C. Miyake	Plant Cell Physiol. 47(5): 1355-1371
3	Efficient and Stable Transformation of <i>Lactuca sativa</i> L. cv. Cisco (lettuce) Plastids.	H. Kanamoto, A. Yamashita, H. Asao S. Okumura, H. Takase, M. Hattori A. Yokota, K. Tomizawa.	Transgenic Research 15(2): 205-217
4	A strategy for desert afforestation using plastid transformation technique for CO ₂ sequestration	S. Okumura, M. Sawada, M. Shimamura Y. W. Park, T. Hayashi, A. Yamashita M. Hattori, H. Kanamoto, H. Takase C. Miyake, K. Tomizawa	Journal of Arid Land Studies 15: 505-508
5	Singlet oxygen inhibits the repair of photosystem II by suppressing the translation elongation of the D1 protein in <i>Synechocystis</i> sp. PCC 6803	Y. Nishiyama, SI Allakhverdiev H. Yamamoto, H. Hayashi N. Murata	Biochemistry. 2004 Sep 7; 43(35): 11321-30
6	Photoinactivation of Ascorbate Peroxidase in Intact Chloroplasts from Tobacco Leaves - <i>Galdieria partita</i> -APX maintains the activity of the Water-Water Cycle in Transplastomic Tobacco Plants.-	C. Miyake, M. Okamura, M. Miyata Y. Shinzaki, M. Nishioka, S. Kitajima A. Yokota, K. Tomizawa	Plant Cell. submitted
7	Massive accumulation of green fluorescent protein in tobacco chloroplasts by transplastomic transformation.	K. Tomizawa, A. Yokota	Nature biotech. submitted
8	Sporophyte anatomy of <i>Cavicularia densa</i> Steph. (Blasiaceae)	M. Shimamura, T. Furuki H. Deguchi	Bryologist submitted

■ 2006 Oral Presentation

	Title	Researchers	Forum
1	Reduction of plastoquinone in low-light conditions functioned as a signal for high-light adaptation in transplastomic plants. -Physiological function of plastoquinone as the redox sensor-	Kato H, Shinzaki Y, Horiguchi S Yamamoto H, Nishioka M, Takase A Hase T, Makino A, Miyake C Tomizawa K	2006 ASPB meeting

Microbiology Research Group

■ 2006 Original Paper

	Title	Researchers	Journal
1	Complete genome sequence of the dehalorespiring bacterium <i>Desulfitobacterium hafniense</i> Y51 and comparison with <i>Dehalococcoides ethenogenes</i> 195.	H. Nonaka, G. Keresztes, Y. Shinoda, Y. Ikenaga, M. Abe, K. Naito, K. Inatomi, K. Furukawa, M. Inui and H. Yukawa.	J. Bacteriol. 188: 2262–2274. 2006.
2	Properties of cellulosomal family 9 cellulases from <i>Clostridium cellulovorans</i> .	T. Arai, A. Kosugi, H. Chan, R. Koukiekolo, H. Yukawa, M. Inui and R.H. Doi.	Appl. Microbiol. Biotechnol. 71: 654–660. 2006.
3	Phototrophic growth of a Rubisco-deficient mesophilic purple nonsulfur bacterium harboring a Type III Rubisco from a hyperthermophilic archaeon.	S. Yoshida, M. Inui, H. Yukawa, T. Kanao, K. Tomizawa, H. Atomi and T. Imanaka.	J. Biotechnol. 124: 532–544. 2006.
4	High throughput transposon mutagenesis of <i>Corynebacterium glutamicum</i> and construction of a single-gene disruptant mutant library.	N. Suzuki, N. Okai, H. Nonaka, Y. Tsuge, M. Inui and H. Yukawa.	Appl. Environ. Microbiol. 72: 3750–3755. 2006.
5	Engineering of a Xylose Metabolic Pathway in <i>Corynebacterium glutamicum</i> .	H. Kawaguchi, A.A. Vertès, S. Okino, M. Inui and H. Yukawa.	Appl. Environ. Microbiol. 72: 3418–3428. 2006.
6	Enhanced hydrogen production from glucose using <i>ldh</i> - and <i>frd</i> -inactivated <i>Escherichia coli</i> strains.	A. Yoshida, T. Nishimura, H. Kawaguchi, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 73: 67–72. 2006.
7	Implementing biofuels on a global scale.	A.A. Vertès, M. Inui and H. Yukawa.	Nat. Biotechnol. 24: 761–764. 2006.
8	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. 17. Nov. 2006. [Epub ahead of print]
9	Technological Options for Biological Fuel Ethanol.	A.A. Vertès, M. Inui and H. Yukawa.	J. Mol. Microbiol. Biotechnol. (in press)
10	Random segment deletion based on <i>IS31831</i> and <i>Cre/loxP</i> excision system in <i>Corynebacterium glutamicum</i> .	Y. Tsuge, N. Suzuki, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. (in press)
11	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. (in press)

■ 2006 Oral Presentation

	Title	Researchers	Forum
1	Growth-Arrested Corynebacteria as Whole-Cell Biocatalysts for Commodity Chemicals Production in a Biorefinery	H. Yukawa, A.A. Vertès and M. Inui.	Pacific Rim Summit on Industrial Biotechnology and Bioenergy, 12–13 January 2006.
2	The growth-independence bioprocess for ethanol production using <i>Corynebacterium glutamicum</i>	M. Inui, A.A. Vertès, S. Okino, T. Watanabe and H. Yukawa.	The 28th Symposium on Biotechnology for Fuels and Chemicals, 30 April – 3 May 2006.
3	Succinic Acid Production by genetically modified <i>Corynebacterium glutamicum</i> under Oxygen-Deprivation	S. Okino, A.A. Vertès, M. Inui and H. Yukawa.	The 28th Symposium on Biotechnology for Fuels and Chemicals, 30 April – 3 May 2006.
4	Molecular Characterization of Microbial Communities in a Niigata Oil Well	K. Inatomi, S. Ishii, M. Inui and H. Yukawa.	American Society for Microbiology 106th General Meeting, 21–25 May 2006.
5	Random Genome Deletion Studies of <i>Corynebacterium glutamicum</i>	Y. Tsuge, N. Suzuki, M. Inui and H. Yukawa.	American Society for Microbiology 106th General Meeting, 21–25 May 2006.
6	Genome engineering and analysis of <i>Corynebacterium glutamicum</i>	M. Inui, N. Suzuki, Y. Tsuge, N. Okai, M. Suda, A.A. Vertès and H. Yukawa.	10th International Symposium on the Genetics of Industrial Microorganisms, 24–28 June 2006.
7	Oxygen-Deprived Bioprocesses for Biorefining Mixed Sugars using Growth-Arrested Corynebacteria	M. Inui, A.A. Vertès and H. Yukawa.	The 3rd Annual World Congress on Industrial Biotechnology and Bioprocessing, 11–14 July 2006.
8	Regulation of Expression of Cellulosomes in <i>Clostridium cellulovorans</i> During Growth on Different Composition Biomass	S.O. Han, M. Inui, R.H. Doi and H. Yukawa.	The 3rd Annual World Congress on Industrial Biotechnology and Bioprocessing, 11–14 July 2006.
9	A Simple, Robust, and Economical Process for Biorefineries: Efficient Production of Ethanol and Organic Acids by Growth-Arrested Corynebacteria	M. Inui, S. Okino, M. Suda, H. Teramoto, T. Jyojima, A.A. Vertès and H. Yukawa.	Society for Industrial Microbiology Annual Meeting and Exhibition 2006, 30 July – 3 August 2006.
10	Towards biorefineries and cellulosic ethanol or organic acids: Efficient production from mixed sugars by growth-arrested bioprocesses using Corynebacteria	M. Inui, S. Okino, M. Suda, H. Teramoto, T. Jyojima, A.A. Vertès and H. Yukawa.	232nd ACS National Meeting, 10–14 September 2006.
11	Genome sequencing of dechlorinating bacterium <i>Desulfitobacterium hafniense</i> Y51 and development of its DNA microarray	K. Inatomi, S. Yamamoto, X. Peng, H. Nonaka, M. Inui, K. Furukawa and H. Yukawa.	14th Annual International Meeting on Microbial Genomics, 24–28 September 2006.

	Title	Researchers	Forum
12	Biorefining Mixed Sugars using High Densities of Growth-Arrested <i>Corynebacteria</i>	H. Yukawa, M. Inui and A.A. Vertès	AICHE 2006 Annual Meeting, 12-17 November 2006.
13	Conversion of Mixed Sugars into Ethanol by Recombinant <i>Corynebacterium glutamicum</i>	M. Inui, H. Kawaguchi, S. Okino, M. Suda, M. Sasaki, A.A. Vertès and H. Yukawa	AICHE 2006 Annual Meeting, 12-17 November 2006.
14	Efficient conversion of glucose and xylose mixtures by growth-arrested <i>Corynebacterium glutamicum</i> cells under oxygen-deprivation conditions	H. Teramoto, H. Kawaguchi, S. Okino, A.A. Vertès, M. Inui and H. Yukawa.	International Symposium on Biocatalysis and Biotechnology, 6-8 December 2006.