

System Analysis Group

■ 2005 Paper

	Title	Researchers	Journal
1	Narrative Scenario Development Based on Cross-Impact Analysis for the Evaluation of Global-Warming Mitigation Options	A. Hayashi, K. Tokimatsu H. Yamamoto, S. Mori	Applied Energy
2	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
3	Costs and Technology Role for Different Levels of CO ₂ Concentration Stabilization	K. Akimoto, T. Tomoda	Avoiding Dangerous Climate Change

■ 2005 Oral Presentaion

	Title	Researchers	Forum
1	Costs and Technology Role for Different Levels of CO ₂ Concentration Stabilization	K. Akimoto, T. Tomoda	International Scientific Symposium: Avoiding Dangerous Climate Change 1-3, February 2005
2	A multi-regional and multi-sectoral energy-economic model for the assessment of the carbon emission reduction policy	T. Homma, S. Mori K. Akimoto, H. Yamamoto T. Kosugi, T. Tomoda	28th Annual IAEE International Conference 4-6, June 2005
3	Development of a multi-regional and multi-sectoral energy-economic model for climate policy assessments	T. Homma, S. Mori K. Akimoto, H. Yamamoto T. Kosugi, T. Tomoda	8th Annual Conference on Global Economic Analysis 9-11, June 2005
4	Analysis of subsidy effectiveness for renewables considering technology learning	F. Sano, K. Akimoto T. Homma, T. Tomoda	The 28th Annual IAEE International Conference 5, June 2005
5	Development of a Dynamic Energy-economic Assessment Model with Multi-regions and Multi-sectors for the Evaluation of the Carbon Emission Reduction Policy	T. Homma, S. Mori K. Akimoto, T. Tomoda	International Energy Workshop (IEW) 2005 7, July 2005
6	Evaluation of various international schemes for climate change mitigation after Kyoto protocol	F. Sano, K. Akimoto T. Homma, T. Tomoda	International Energy Workshop (IEW) 2005 6, July 2005

Chemical Research Group

■ 2005 Original Paper

	Title	Researchers	Journal
1	Adsorption of Carbon Dioxide on Aminosilane Modified Mesoporous Silica	N. Hiyoshi, K. Yogo, T. Yashima	Journal of the Japan Petroleum Institute. 48 (1), 29-36 (2005)
2	Adsorption Characteristics of Carbon Dioxide on Organically Functionalized SBA-15	N. Hiyoshi, K. Yogo, T. Yashima	Microporous and Mesoporous Materials, 84 357-365.(2005)
3	CO ₂ separation by membrane/absorption hybrid method	K. Okabe, M. Nakamura, H. Mano M. Teramoto, K. Yamada	Studies in Surface Science and Catalysis (in press)
4	CO ₂ capture and enrichment by novel hollow fiber facilitated transport membrane module with low energy consumption	M. Teramoto, S. Kitada, S. Shimizu N. Ohnishi, H. Matsuyama N. Matsumiya, M. Nakamura K. Okabe, H. Mano	Greenhouse Gas Control Technologies, 2567-2571 (2005)
5	Oxygen separation properties of bis(phenyl)fluorene-based cardo polymer membranes	S. Kazama, T. Teramoto, K. Haraya	High Performance Polymers. 17 (1) 3-17 (2005)
6	Cardo Polyimide Membranes for CO ₂ Capture	S. Kazama, S. Morimoto, S. Tanaka H. Mano, T. Yashima, K. Yamada K. Haraya	Greenhouse Gas Control Technologies Volume I Peer Reviewed Papers), 75-82 (2005)
7	Diesel Particulate Matter Removal Using DBD Pulsed Plasmas	S. Yao, K. Madokoro, C. Fushimi K. Yamada	Fourth International Conference on the Physics of Dusty Plasmas, ed. L. Boufendi, M. Mikikian, and P.K. Shukla, American Institute of Physics, 209-212(2005)
8	Stand biomass estimation method by canopy coverage for application to remote sensing in an arid area of Western Australia	H. Saganuma, Y. Abe, M. Taniguchi H. Tanouchi, H. Utsugi, T. Kojima K. Yamada	Forest Ecology and Management (in press)

■ 2005 Oral Presentation

	Title	Researchers	Forum
1	Adsorption/desorption properties of carbon dioxide on aminosilane-modified mesoporous silica	K. Yogo, A. Thujimoto, Y. Sakamoto K. Yamada	Pacificchem 2005 December 19, 2005
2	Inorganic and Organic membrane development	K. Yogo	Australia-JapanWorkshop - CO ₂ Capture Enabling Technologies for Coal-fired Power Generation -, Australian Pavilion Aichi Expo Site, Nagoya September 16, 2005
3	CO ₂ separation by membrane/chemical absorption hybrid method	H. Mano	Australia-Japan Workshop, Australian Pavilion, Aichi Expo Site, Japan September 16, 2005
4	CO ₂ separation by membrane/absorption hybrid method	K. Okabe, M. Nakamura, H. Mano M. Teramoto, K. Yamada	ICOM 2005, Seoul,Korea August 21-26, 2005
5	CO ₂ separation by membrane/absorption hybrid method	K. Okabe, M. Nakamura, H. Mano M. Teramoto, K. Yamada	APCRE'05, Gyeongju, Korea June 12-15, 2005
6	Development of a new chemical absorption system for CO ₂ capture	K. Goto	The International CO ₂ Capture Network (University of Texas, Austin Texas,USA) October 3, 2005
7	Novel absorbents for removal of CO ₂ from gas stream	K. Goto	Australia-Japan Workshop, Australian Pavilion, Aichi Expo Site, Japan September 16, 2005
8	Polymeric CO ₂ Separation Membrane for Mitigating Global Warming	S. Kazama, K. Yamada	Pacificchem 2005, 19, December, 2005
9	Formation and Characterization of Dendrimer Composite Membrane for CO ₂ Separation	S. Duan, T. Kouketsu, S. Kazama K. Yamada, K. Nagai, B. D. Freeman	ICOM 2005, 21-26, August, 2005, Seoul, Korea
10	CO ₂ Separation Membrane Of Modified PAMAM Dendrimer	F. A. Chowdhury, Y. Shimada, H. Oku S. Kazama, K. Yamada	ICOM 2005, 21-26, August, 2005, Seoul, Korea
11	Fundamental study on diesel particulate matter removal using a dielectric barrier discharge reactor	C. Fushimi, K. Madokoro, S. Yao K. Yamada	6th Workshop on Fine Particle Plasmas, National Institute for Fusion Science, Toki, Japan December 16, 2005
12	Kinetic Study of ZnO Carbonation	S. Yao, Y. Kashima, C. Mine K. Yamada	China/USA/Japan Joint Chemical Engineering Conference, Beijing October 12, 2005
13	Diesel Particulate Matter Removal Using DBD Pulsed Plasmas	S. Yao, K. Madokoro, C. Fushimi K. Yamada	International Conference on the Physics DustyPlasmas, ICPDP 2005, Orleans, France June 17, 2005
14	How to Promote an Afforestation Project as a CO ₂ Sequestration Measure	K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27-December 2, 2005
15	Death of Trees at Wheat Belt in Western Australia; Identification of its Causes by Chemical Analysis of Soil	H. Hamano, N. Saito, T. Kojima S. Kato, M. Saito, A. Kinnear K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27-December 2, 2005

	Title	Researchers	Forum
16	Effect of Temperature and Light on Germination of 12 Afforested Trees in South Western Australia	S.Kawasaki, S.Kaneoya, H. Tanouchi, H. Hamano, T. Kojima K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
17	Soil mite (Acari) Assemblages in Early Stage Reafforested, Highly Degraded Semiarid Landscapes in Western Australia	A. Kinneer, P. Curry, T. Kojima K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
18	Litter and Soil Carbon Dynamics in Arid Forest Ecosystems and its Implication to Carbon Sequestration by Arid Land Afforestation	T. Kawanishi, S. Kumada, Y. Hayashi, K. Ogomori, Y. Kobayashi, N. Takahashi, M. Saito, H. Hamano, T. Kojima K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
19	A Modeling Methodology of Large Scale Water Balance and Salt Accumulation for Afforestation in Arid Land	T. Hirukawa, N. Asaka, H. Hamano K. Yamada, T. Kojima	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
20	Stand Growth Estimation of an Afforestation and Natural Forests in Arid Land of Western Australia	K. Shiono, H. Suganuma, Y. Abe H. Tanouchi, H. Utsugi, M. Saito N. Takahashi, T. Kojima, K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
21	Development of Tree Growth Simulator based on a Process Model of Photosynthesis for Eucalyptus camaldulensis in arid land	Y. Egashira, M. Shibata, K. Ueyama H. Utsugi, T. Kojima N. Takahashi, S. Kawarasaki K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
22	Vegetation Limiting Factors as Salt Accumulation and Soil Thickness in Leonora Western Australia	M. Saito, H. Tanouchi, T. Saito D. Naito, Y. Abe, K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
23	Water Use Efficiency of the Trees in Arid Lands –The Plasticity for Fluctuation of Water Conditions–	H. Tanouchi, H. Utsugi, N. Takahashi H. Hamano, S. Kawarasaki, T. Kojima K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005
24	Effects of Calcined Bauxite as a Water-holding Material and a Way of Mixing it with Soil on Tree Growth	N. Takahashi, H. Hamano, Y. Abe T. Kojima, K. Yamada	8th International Conference on Desert Technology, Nasu, Japan November 27–December 2, 2005

■ 2005 Non-Journal Publication

	Title	Researchers	Magazine, Newspaper, etc.
1	Mineral carbonation and industrial uses of carbon dioxide	M. Mazzotti, J. C. Abandades R. Allam, K. S. Lackner F. Meunier, E. Rubin J. C. Sanchez, K. Yogo R. Zevenhoven	"IPCC Special Report on Carbon Dioxide Capture and Storage: Chapter 7, IPCC, Cambridge University Press (2005).

CO₂ Sequestration Research Group■ 2005 Original Paper [CO₂ Geological Storage Project]

	Title	Researchers	Journal
1	FIELD TEST OF CO ₂ INJECTION IN NAGAOKA, JAPAN	Katsuhiko Kikuta, Seiji Hongo, Daiji Tanase and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P1367-1372, 5-9 September 2004, Vancouver, Canada (printed in 2005)
2	DOES CARBON DIOXIDE REMAIN DISSOLVED IN AQUIFER?	Ikuo Okamoto, Ziqiu Xue and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P2195-2198, 5-9 September 2004, Vancouver, Canada (printed in 2005)
3	COAL MATRIX SWELLING CAUSED BY ADSORPTION OF CARBON DIOXIDE AND ITS IMPACT ON PERMEABILITY	Ziqiu Xue and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P2253-2256, 5-9 September 2004, Vancouver, Canada (printed in 2005)
4	EFFECTS OF BEDDING PLANE ON CO ₂ MIGRATION AND DEFORMATION STRAIN IN WATER-SATURATED POROUS SANDSTONE	Ziqiu Xue and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P2203-2206, 5-9 September 2004, Vancouver, Canada (printed in 2005)
5	NUMERICAL SIMULATIONS OF THE INJECTION AND MIGRATION BEHAVIOR OF CARBON DIOXIDE	Yukio Imaseki, Takashi Ohsumi, Toshimasa Tomoda, Motoo Uno, and Hiroshi Okuma	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P2181-2184, 5-9 September 2004, Vancouver, Canada (printed in 2005)
6	CO ₂ SEQUESTRATION INTO GEOTHERMAL FIELDS	Akira Ueda, Tatsuya Yajima, Hideshi Kaieda and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P2007-2010, 5-9 September 2004, Vancouver, Canada (printed in 2005)
7	EXPERIMENTAL STUDY REGARDING PUBLIC PERCEPTION OF CO ₂ UNDERGROUND SEQUESTRATION TECHNOLOGIES	Motoo Uno, Yasuko Mori and Yoko Endo	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P2481-2484, 5-9 September 2004, Vancouver, Canada (printed in 2005)
8	EXPLORATION OF PUBLIC ACCEPTANCE REGARDING CO ₂ UNDERGROUND SEQUESTRATION TECHNOLOGIES	Motoo Uno, Yasuko Mori, Kohko Tokushige & Akira Furukawa	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P1705-1710, 5-9 September 2004, Vancouver, Canada (printed in 2005)

■ 2005 Original Paper [CO₂ Ocean Sequestration Project]

	Title	Researchers	Journal
1	OCEAN UPTAKE POTENTIAL FOR CARBON DIOXIDE SEQUESTRATION	Masao Sorai and Takashi Ohsumi	Geochemical Journal, Vol.39, No.1, 29-43, 2005
2	EVALUATION OF BENEFITS OF CO ₂ OCEAN SEQUESTRATION	Koji Tokimatsu, Masao Sorai, Yoichi Kaya, Michimasa Magi and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P773-781, 5-9 September 2004, Vancouver, Canada (printed in 2005)
3	BIOLOGICAL IMPACT ASSESSMENT OF DIRECT CO ₂ INJECTION INTO THE OCEAN	Jun Kita and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P783-789, 5-9 September 2004, Vancouver, Canada (printed in 2005)
4	CO ₂ RELEASE IN DEEP OCEAN BY MOVING SHIP	Junichi Minamiura, Hideyuki Suzuki, Baixin Chen, Masahiro Nishio and Masahiko Ozaki	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P809-817, 5-9 September 2004, Vancouver, Canada (printed in 2005)
5	A LAGRANGIAN METHOD COMBINED WITH HIGH RESOLUTION OCEAN GENERAL CIRCULATION MODEL TO EVALUATE CO ₂ OCEAN SEQUESTRATION	Yoshio Masuda, Yasuhiro Yamanaka, Taketo Hashioka, Michimasa Magi, Shigeo Murai and Takashi Ohsumi	Proceedings of the 7th International Conference on Greenhouse Gas Control Technologies, P819-827, 5-9 September 2004, Vancouver, Canada (printed in 2005)

■ 2005 Oral Presentation [CO₂ Geological Storage Project]

	Title	Researchers	Forum
1	Geophysical Monitoring of CO ₂ Sequestration at an Onshore Saline Aquifer in Nagaoka, Japan	Daiji Tanase, Ziqiu Xue, Hiroyuki Azuma	2nd Monitoring Network Meeting of IEA, October 2005
2	Pilot Test of CO ₂ Injection in Nagaoka, Japan	Daiji Tanase, Hiroshi Okuma, Hideki Saito	CO ₂ Store Group Steering Committee Meeting, October 2005
3	Time-lapse Cross-well Seismic Tomography for the Monitoring of CO ₂	Hideki Saito, Dai Nobuoka, Daiji Tanase	CO ₂ Store Group Steering Committee Meeting, October 2005
4	Simulation Study of PilotCO ₂ Injection in Iwanohara, Nagaoka City, Japan	Hiroshi Okuma	CO ₂ Store Group Steering Committee Meeting, October 2005
5	Development of Simulator for Geological CO ₂ Sequestration	Hiroshi Okuma	CO ₂ Store Group Steering Committee Meeting, October 2005

	Title	Researchers	Forum
6	An Overview of the Nagaoka Project in Japan	Masanori Abe, Ziqiu Xue, Keigo Akimoto, Daiji Tanase, Yasunobu Mizuno	Society of Petroleum Engineers–Applied Technology Workshop, November 2005
7	Time-lapse crosswell seismic tomography and well logging to monitor the injected CO ₂ in an onshore aquifer, Nagaoka, Japan	Ziqiu Xue, Daiji Tanase, Dai Nobuoka	SEG International Exposition, November 2005
8	CO ₂ monitoring at the pilot-scale CO ₂ injection site in Nagaoka, Japan	Daiji Tanase, Ziqiu Xue, Hideki Saito	2005 AGU Fall Meeting, December 2005
9	The effects of CO ₂ injection on the geomechanical behavior of Australian brown coal: Uniaxial testing	Ziqiu Xue	Alaska Rocks 2005, June 2005

■ 2005 Oral Presentation [CO₂ Ocean Sequestration Project]

	Title	Researchers	Forum
1	Numerical Simulation of Mortality of Zooplankton Caused by Direct Injection of Carbon Dioxide in the Ocean	Toru Sato, Yuji Watanabe, Koji Toyota	4th annual conference on carbon capture & sequestration, 2–5 May 2005, Alexandria, Virginia
2	Trophic structure determination of the deep-sea copepods in the South Western Pacific by the stable isotope analysis	Haruko Kurihara, Saeko Mito, Jun Kita	The 9th International Conference on Copepoda, July 2005
3	Japan program for CO ₂ sequestration	Takashi Ohsumi	Seminar on Sub-sea CO ₂ storage technical challenges, risk and environmental aspects, September 2005, Oslo
4	Advances in Japanese Project on CO ₂ ocean storage	Jun Kita	Seminar on Sub-sea CO ₂ storage technical challenges, risk and environmental aspects, September 2005, Oslo

■ 2005 Non-Journal Publication [CO₂ Ocean Sequestration Project]

	Title	Researchers	Magazine, Newspaper, etc.
1	Extended probit mortality model for zooplankton against transient change of PCO ₂	Toru Sato, Yuji Watanabe, Koji Toyota, Joji Ishizaka	Marine Pollution Bulletin, April 2005 submitted

Plant Research Group

■ 2005 Paper

	Title	Researchers	Journal
1	Cyclic electron flow around PSI is essential for photosynthesis	Y. Munekage, M. Hashimoto C. Miyake, K. Tomizawa, T. Endo M. Tasaka, T. Shikanai,	Nature 429: 579-582
2	Response of Cyclic Electron Flow around PSI (CEF-PSI) to CO ₂ in Tobacco Leaves—Electron flux ratio in PSI to PSII Determined the Magnitude of Non-Photochemical Quenching (NPQ) of Chl Fluorescence	C. Miyake, M. Miyata Y. Shinzaki, K. Tomizawa	Plant Cell Physiol (in press)
3	Enhancement of cyclic electron flow around PSI at high light and its contribution to the induction of non-photochemical quenching (NPQ) of Chl fluorescence in intact leaves of tobacco plants	C. Miyake, Y. Shinzaki, M. Miyata K. Tomizawa	Plant Cell Physiol. 45: 1426-1433
4	Isolation of Intact Vacuoles and Proteomic Analysis of Tonoplast from Suspension-Cultured Cells of <i>Arabidopsis thaliana</i>	T. Shimaoka, M. Ohnishi, T. Sazuka N. Mitsuhashi, I. Hara, K. Shimazaki M. Maeshima, A. Yokota, K. Tomizawa, T. Mimura	Plant Cell Physiol., Jun 2004; 45: 672-683
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

Microbiology Research Group

■ 2005 Original Paper

	Title	Researchers	Journal
1	Multiple large segment deletion method for <i>Corynebacterium glutamicum</i> .	N. Suzuki, H. Nonaka, Y. Tsuge, S. Okayama, M. Inui and H. Yukawa	Appl. Microbiol. Biotechnol. 69: 151-61. 2005
2	New multiple deletion method for <i>Corynebacterium glutamicum</i> genome using a mutant <i>lox</i> sequence.	N. Suzuki, H. Nonaka, Y. Tsuge, M. Inui and H. Yukawa	Appl. Environ. Microbiol. 71: 8472-80. 2005
3	Manipulating <i>Corynebacteria</i> from Individual Genes to Chromosomes	A.A. Vertès, M. Inui and H. Yukawa.	Appl. Environ. Microbiol. 71: 7633-42. 2005
4	Enhanced hydrogen production from formic acid by formate hydrogen lyase-overexpressing <i>Escherichia coli</i> strain.	A. Yoshida, T. Nishimura, H. Kawaguchi, M. Inui and H. Yukawa	Appl. Environ. Microbiol. 71: 6762-8. 2005
5	Production of organic acids by <i>Corynebacterium glutamicum</i> under oxygen deprivation.	S.Okino, M. Inui and H. Yukawa	Appl. Microbiol. Biotechnol. 68: 475-80. 2005
6	Anaerobic degradation of aromatic compounds by <i>Magnetospirillum</i> strains: isolation and degradation genes.	Y. Shinoda, J. Akagi, Y. Uchihashi, A. Hiraishi, H. Yukawa, H. Yurimoto, Y. Sakai and N. Kato	Biosci. Biotechnol. Biochem. 69: 1483-91. 2005
7	Degradation of corn fiber by <i>Clostridium cellulovorans</i> cellulases and hemicellulases and contribution of scaffolding protein, CbpA.	R. Koukiekolo, H-Y. Cho, A. Kosugi, M. Inui, H. Yukawa and R.H. Doi.	Appl. Environ. Microbiol. 71: 3504-11. 2005
8	Molecular cloning and transcriptional and expression analysis of <i>engO</i> , encoding a new noncellulosomal family 9 enzyme from <i>Clostridium cellulovorans</i> .	S.O. Han, H. Yukawa, M. Inui and R.H. Doi.	J. Bacteriol. 187: 4884-9. 2005
9	Large scale engineering of the <i>Corynebacterium glutamicum</i> genome.	N. Suzuki, S. Okayama, H. Nonaka, Y. Tsuge, M. Inui and H. Yukawa.	Appl. Environ. Microbiol. 71: 3369-72. 2005
10	Effect of carbon source on the cellulosomal subpopulations of <i>Clostridium cellulovorans</i> .	S.O. Han, H. Yukawa, M. Inui and R.H. Doi.	Microbiology. 151: 1491-7. 2005
11	<i>Cre/loxP</i> mediated deletion system for large genome rearrangements in <i>Corynebacterium glutamicum</i> .	N. Suzuki, Y. Tsuge, M. Inui and H. Yukawa.	Appl. Microbiol. Biotechnol. 67: 225-33. 2005
12	A new insertion sequence, IS 14999, from <i>Corynebacterium glutamicum</i> .	Y. Tsuge, K. Ninomiya, N. Suzuki, M. Inui and H. Yukawa.	Microbiology. 151: 501-8. 2005
13	Isolation and characterization of a native composite transposon, Tn 14751, carrying 17.4 kilobases of <i>Corynebacterium glutamicum</i> chromosomal DNA.	M. Inui, Y. Tsuge, N. Suzuki, A.A. Vertès and H. Yukawa.	Appl. Environ. Microbiol. 71: 407-16. 2005
14	Metabolic engineering of <i>Corynebacterium glutamicum</i> for fuel ethanol production under oxygen-deprivation conditions.	M. Inui, H. Kawaguchi, S. Murakami, A.A. Vertès and H. Yukawa.	J. Mol. Microbiol. Biotechnol. 8: 243-254. 2004
15	<i>Corynebacterium glutamicum</i> glyceraldehyde-3-phosphate dehydrogenase isoforms with opposite, ATP-dependent regulation.	C.A. Omumasaba, N. Okai, M. Inui and H. Yukawa.	J. Mol. Microbiol. Biotechnol. 8: 91-103. 2004

■ 2005 Oral Presentation

	Title	Researchers	Forum
1	Growth-Arrested Microbial Cells as Whole-Cell Biocatalysts: a New Paradigm for Efficient Production in Biorefinery Complexes	Alain A. Vertès, Masayuki Inui, and Hideaki Yukawa	14th European Biomass Conference and Exhibition, October 2005
2	Biohydrogen Production for Commercialization	Alain A. Vertès, Masayuki Inui, and Hideaki Yukawa	14th European Biomass Conference and Exhibition, October 2005
3	The Energy Revolution: Technology for Ethanol Production	Alain A. Vertès and Hideaki Yukawa	Eastern Biofuels Conference & Expo II, September 2005
4	Application of the RITE Bioprocess in Hydrogen Production	Hideaki Yukawa and Masayuki Inui	SIM Annual Meeting, August 2005
5	Bio-refinery Technologies	Hideaki Yukawa	BioClusters Asia, July 2005
6	Analysis of a new insertion sequence IS 14999 from <i>Corynebacterium glutamicum</i>	Yota Tsuge, Nobuaki Suzuki, Masayuki Inui, and Hideaki Yukawa	American Society for Microbiology 105th General Meeting, June 2005
7	Novel large segment deletion method for <i>Corynebacterium glutamicum</i> in which multiple deletions are possible	Nobuaki Suzuki, Yota Tsuge, Satoshi Okayama, Masayuki Inui, and Hideaki Yukawa	American Society for Microbiology 105th General Meeting, June 2005
8	Development of a new bioprocess for organic acid production using <i>Corynebacterium glutamicum</i>	Shohei Okino, Hideo Kawaguchi, Masayuki Inui, Hideaki Yukawa	The 27th Symposium on Biotechnology for Fuels and Chemicals, May 2005

	Title	Researchers	Forum
9	Genome engineering and analysis for <i>Corynebacterium glutamicum</i>	Nobuaki Suzuki, Hiroshi Nonaka, Naoko Okai, Yota Tsuge, Masayuki Inui, Hideaki Yukawa	The 2nd Annual World Congress on Industrial Biotechnology and Bioprocessing, April 2005
10	A novel bioprocess for the production of fuel ethanol and chemicals from lignocellulosic sugars	Masayuki Inui, Shohei Okino, Hideo Kawaguchi, Hideaki Yukawa	The 2nd Annual World Congress on Industrial Biotechnology and Bioprocessing, April 2005
11	Biohydrogen Research and Development in Japan	Hideaki Yukawa, Masayuki Inui	The 2nd Annual World Congress on Industrial Biotechnology and Bioprocessing, April 2005
12	High-efficiency hydrogen production from formate	Hideo Kawaguchi, Akihito Yoshida, Taku Nishimura, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
31	A novel bioprocess for the production of fuel ethanol and chemicals from lignocellulosic sugars	Shohei Okino, Hideo Kawaguchi, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
32	The complete genome sequence of <i>Corynebacterium glutamicum</i> R and the comparative genome analysis with other corynebacteria	Hiroshi Nonaka, Peter Kós, Naoko Okai, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
33	The complete genome sequence of the anaerobic dehalorespiring <i>Desulfitobacterium</i> sp. Y51	Hiroshi Nonaka, Yoshifumi Shinoda, Gabor Keresztes, Yuko Ikenaga, Miyuki Abe, Kae Naito, Kenichi Inatomi, Kensuke Furukawa, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
34	The whole genome shotgun (WGS) sequencing of <i>Clostridium kluyveri</i> for efficient utilization of protein-derived biomass	Hiroshi Nonaka, Yoshifumi Shinoda, Yuko Ikenaga, Miyuki Abe, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
35	Novel large segment deletion method for <i>Corynebacterium glutamicum</i> in which multiple deletions are possible	Nobuaki Suzuki, Hiroshi Nonaka, Yota Tsuge, Satoshi Okayama, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
36	High throughput transposon-mediated mutagenesis and construction of disruptant library of <i>Corynebacterium glutamicum</i>	Nobuaki Suzuki, Naoko Okai, Hiroshi Nonaka, Yota Tsuge, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
37	New Transposable Elements in <i>Corynebacterium glutamicum</i>	Yota Tsuge, Nobuaki Suzuki, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005
38	Transcriptome and proteome analysis of oxygen deprived metabolism in <i>Corynebacterium glutamicum</i>	Masako Suda, Yoshifumi Shinoda, Shikiko Murakami, Shohei Okino, Hiroshi Nonaka, Masayuki Inui, Hideaki Yukawa	International Workshop on Biorefinery, February 2005

■ 2005 Non-Journal Publication

	Title	Researchers	Magazine, Newspaper, etc.
1	Vitamin Synthesis: Carotenoids, Biotin, and Pantothenate	G. Sandmann and H. Yukawa	Handbook of <i>Corynebacterium glutamicum</i>