

Oct. 21	No.	Title	Presenter	Affiliation	Chair
13:00-13:30		Opening Address	Conference Chair	Sojo University	
13:30-13:50	O21-1	Sterilization of Liquid Food using Intense Pulsed Electric Field Combined with Moderate Thermal Treatment	Taiga Kajiwara	Kumamoto University	H.D.Stryczewska
13:50-14:10	O21-2	Proliferation and Alcoholic Fermentation of Saccharomyces Cerevisiae Subjected to Nanosecond Pulsed Electric Fields	Kyohei Matsubayashi	Kumamoto University	H.D.Stryczewska
14:10-14:30	O21-3	Observation of nano-pore on a planar lipid bilayer membrane subjected to nanosecond pulsed electric field	Kazuho Honda	Kumamoto University	H.D.Stryczewska
14:30-14:50		Break			
14:50-15:10	O21-4	Effects of pulsed electric field to growth control on leaf lettuce	Yuta Yamada	Kumamoto University	Takehiko Sato
15:10-15:30	O21-5	Evaluation of insecticidal effect of ozone generated by surface discharge	Tomoya Abiru	Kumamoto University	Takehiko Sato

Oct. 22	No.	Title	Presenter	Affiliation	Chair
09:00-09:40	K22-1	PLASMA AGRICULTURE IN EUROPE -Review of research on agricultural applications of non -thermal plasma-	H. D. Stryczewska	Lublin University of Technology	Hiroharu Kawasaki
09:40-10:10	I22-1	Advantages of Plasma Agriculture	Masaharu Shiratani	Kyushu University	Hiroharu Kawasaki
10:10-10:40	I22-2	Polarity effect on plasma in water for water quality improvement	Takehiko Sato	Tohoku University	Hiroharu Kawasaki
10:40-12:00		Poster session			Fumiaki Mitsugi Yuji Teramoto Hitoshi Miyasaka Kouhei Murata Masatoshi Nakahara
12:00-13:00		Lunch			
13:00-13:30		Welcome Address	General chair	Sojo University	
13:30-14:30	K22-2	Lightning to Agriculture — Improvement of Plant Growth, Product Freshness and Extraction of Functional Agent by Pulsed Power and Plasmas—	Koichi Takaki	Iwate University	Masaharu Shiratani
14:30-15:00		Break			
15:00-16:00	K22-3	Computational Intelligence for Hybridized Agriculture	Nikhil R. Pal	Indian Statistical Institute	Takeshi Yamakawa
16:00-16:30		Break			
16:30-17:30	K22-4	New Trends in Advanced Agriculture of Kumamoto Prefecture — Toward the Disaster Restoration —	Taisuke Ono	Kumamoto Prefectural Government	Takeshi Yamakawa
17:30-18:00		Break			
18:00-20:00		Banquet			

No.	Title	Presenters	Affiliations
P22-1	Non-chemical Agriculture by Ozone Sterilization	Kenji Ebihara*1, Fumiaki Mitsugi*2, Tomoaki Ikegami*2, Yoshitaka Yamashita*3, Toshifumi Yamashita*3, Sin-ichi Aoi*4, Henryka D. Stryczewska*5, Joanna Pawlat*5, Shinriki Teii*6, Ta-Lun Sung*6	*1 Environment and Energy Laboratory *2 Kumamoto University *3 Sanwa hi-tech Co.Ltd *4 Sojo University *5 Lublin University of Technology *6 Luchwa University of Science and Technology
P22-2	Isolation of a purple non-sulfur photosynthetic bacterium that efficiently assimilate glycerol and its application for kurma shrimp (Marsupenaeus japonicus) aquaculture	Hitoshi Miyasaka*1, Nao Yamauchi*1, Hiroshi Okuhata*2, Satoshi Tanaka*2, Kageyasu Takanashi*3, Takashi Sasahira*3, Takaaki Maki*3, Akihiro Okazaki*4, Shuhei Hayashi*1, Shinjiro Yamamoto*1	*1 Department of Applied Life Science *2 The Kansai Electric Power Co., Environmental Research Center *3 Matsumoto Institute of Microorganisms Co. Ltd. *4 Takusui Co. Ltd.
P22-3	Isolation of purple nonsulfur photosynthetic bacterial strains which grow well in the medium made from distillation residue of Kuma Shochu, a traditional spirit produced from rice in Kumamoto, Japan	Aoi Koga*1, Kosuke Nakayama*1, Nao Yamauchi*1, Shuhei Hayashi*1, Shinjiro Yamamoto*1, Naoki Yamada*2, Toshiyasu Saruta*2, Takaaki Maki*2, Hitoshi Miyasaka*1	*1 Department of Applied Life Science, Sojo University *2 Matsumoto Institute of Microorganisms Co. Ltd.
P22-4	Sterilization of Colletotrichum sp. using a discharge source with water mist	Takeshi Nishimura*1, Masaru Tominaga*1, Junichiro Tsuchida*1, Tatsuya Sakoda*1, Norikazu Mizoguchi*2, Yoshivuki Kushima*2	*1 University of Miyazaki *2 Miyazaki Agricultural Research Institute
P22-5	Bioinformatic identification method of evolutionary ranges for potential functional non-coding molecules on genomes	Hiro Takahashi*1, Anna Takahashi*2, Noriya Hayashi*3, Satoshi Naito*3,4, Hitoshi Onouchi*4	*1 Graduate School of Horticulture, Chiba University *2 Faculty of Information Technologies and Control, Belarusian State University of Informatics and Radio electronics *3 Graduate School of Life Science, Hokkaido University *4 Graduate School of Agriculture, Hokkaido University
P22-6	Novel antioxidant activity assay method for functional liquid foods based on bicontinuous microemulsion electrochemistry	Alam S M Nur*1, Kyosei Goto*1, Eisuke Kuraya*2, Dai Kato*3, Osamu Niwa*4, Taisei Nishimi*5, Satoshi Watanabe*1 and Masashi Kunitake*1	*1 Graduate School of Science, Kumamoto University *2 Science and Technology Division, National Institute of Technology, Okinawa College *3 National Institute of Advanced Industrial Science and Technology *4 Advanced Science Research Laboratory, Saitama Institute of Technology *5 Japan Technological Research Association of Artificial Photosynthetic Chemical Process (AP2Chem)
P22-7	Control of temperature and air flow in greenhouses using heat pumps	Fumiyuki Goto, Takenobu Michioka, Kazuhiro Shoji	*1 Central Research Institute of Electric Power Industry *2 Kinki University
P22-8	Nanosecond Pulsed Microplasmas with Vertically Arranged Carbon Nanotube Electrodes for Non-Thermal Plasma Applications	Takeshi Ihara*1, Yoshihito Yagyu*1, Tamiko Ohshima*1, Hiroharu Kawasaki*1 and Yoshiaki Suda*2	*1 National Institute of Technology, Sasebo College *2 National Institute of Technology, Ishikawa College
P22-9	Structural Analysis of Proteins Subjected to Nanosecond Intense Electrical Pulses	Shota Hatayama, Takuma Terahira, Sunao Katsuki	Graduate School of Science and Technology, Kumamoto University
P22-10	Structure and functional analysis of NAD(P)H-dependent carbonyl reductase specifically expressed in thyroidectomized(Tx) chicken fatty liver	Yudai Fukuda*1, Haruhiko Sakuraba*2, Tomohiro Araki*1, Toshihisa Ohshima*3, and Kazunari Yoneda*1	*1 Tokai University *2 Kagawa University *3 Osaka Institute of Technology
P22-11	Prospects of Rice Insect Pest Control under the Environmentally Friendly Farming in Japan	Kouhei Murata, Asana Matsura, Jun Abe, Shin Yasuda and Raieev Pradhan	Tokai University
P22-12	Inhibitory Effect of 4-Methylumbelliferyl Sulfate on Superoxide Anion Radical Generation Assays	Shintaro Sugahara, Masateru Ono, Keiji Igoshi, and Shin Yasuda	School of Biosciences, Graduate School, Tokai University
P22-13	Comparison of Phenolic Parameters and Inhibitory Effects of Yacon Leaves from Different Varieties on Carbohydrate Digestive Enzymes	Yuto Ueda, Yasushi Matsuda, Tatsuro Murata, Masateru Ono, Kiyotaka Kabata, Keiji Igoshi, and Shin Yasuda	Graduate School of Agriculture, Tokai University
P22-14	Effects of Digestive Liquid from Biogas Fermentation as Fertilizer on Barley	Jun Abe*1 and Makoto Nakaboh*2	*1 School of Agriculture, Tokai University *2 Kyushu Biomass Forum
P22-15	Research on zero emission brewing with Purple-colored sweet potato	Naohiko Taga, Kiyotaka Kabata, Tatsuro Murata, Takeshi Shibata, Tomohiro Araki, Shin Yasuda, Yasushi, Matsuda, Kenshou Honda	Tokai University
P22-16	Developing an automatically measurement and evaluation system for fishes by using a growing topology representing network	Kazuhiro Tokunaga, Hiromitsu Ohta, Makoto Nakamura	National Fisheries University
P22-17	Aromatic Amines, from Fermented Food Products, as Agonists for the Human Trace Amine-associated Receptor 1 (hTAAR1) in the Stomach	Kazuki Sakoda, Youhei Takebe, Yuka Murakami, Yusei Takahama, Kaori Murasaki, Shota Matsushita, Kenji Oshima, Hiroshi Yoshihara, Shigeru Morimura, Hiroto	Kumamoto University
P22-18	Oxidative-stress-tolerance and related genes of marine green algae	Satoshi Tanaka *1, Hitoshi Miyasaka *2	*1 The Kansai Electric Power Co. Inc. *2 Sojo University
P22-19	Electronic-Structure Informatics Study on Agonists/Antagonists to a Biogenic Amine Receptor	Manabu Sugimoto*1,2,3, Ikumi Morikawa*1, Hiroto Ohta*2	*1 Department of Applied Chemistry & Biochemistry, Faculty of Engineering, Kumamoto University *2 Graduate School of Science and Technology, Kumamoto University *3 Research Center for Advanced Science and Technology, The University of Tokyo
P22-20	Culture conditions for enhancing growth and sacran production of Aphanothece sacrum	Shinjiro Yamamoto, Yumiko Kuriyama, Izumi Iwaoka, Shuhei Hayashi and Hitoshi Miyasaka	Department of Applied Life Science, Sojo University
P22-21	The effect to radish cultivation by sprayed photosynthetic bacteria	Shuhei Hayashi, Yasunari Iwamoto, Satoko Sugiyama, Shinjiro Yamamoto, Hitoshi Miyasaka	Department of Applied Life Science, Sojo University
P22-22	Disinfection of Fungal Spores on Citrus using Belt Conveyor Type Device	Yoshihito Yagyu*1, Taiki Miyamoto*1, Mitsuhiko Yamaguchi*1, Takeshi Ihara*1, Tamiko Ohshima*1, Hiroharu Kawasaki*1, and Akikazu Sakudo*2	*1 Department of Electrical and Electronic Engineering, National Institute of Technology, Sasebo College *2 Faculty of Medicine, University of Ryukyus
P22-23	The Roles of Biogenic Amine G Protein-coupled Receptors in Insect Feeding Behavior	Shiun Ishido, Akiko Sugano, Masaya Saito, Kiyoshi Asaoka, Hiroto Ohta	Kumamoto University
P22-24	Development of a Web System for Visualizing Information about a Spread of Pest Occurrences	Yuuki Yamasaki, Takuya Sadohara, Noriko Horibe, Shin-ichi Aoi	*1 Graduate School of Engineering, Sojo University *2 Faculty of Computer and Information Sciences, Sojo University *3 Department of Computer and Information Science, Sojo University
P22-25	Bacteria sterilization by metal ablated plasma using high power laser	Hiroharu Kawasaki*1, Yoshihito Yagyu*1, Tamiko Ohshima*1, Takeshi Ihara*1, Yoshiaki Suda*2	*1 National Institute of Technology, Sasebo College *2 National Institute of Technology, Ishikawa College
D22-1	Introduction of eco-friendly golden apple snail killer for paddy rice field	Daisuke Shichi	Nagase Sunbio.Co.Ltd.
D22-2	Use of the hybrid agriculture effective microorganisms.	Naoki Yamada, Makoto Nakajima, Toshiyasu Saruta, Takaaki Maki	Matsumoto Institute of Microorganisms Co., Ltd
D22-3	産る一次産業から六次産業化までーファインバブルの世界ー	梨子木 久恒	熊本自然テクノワークス
D22-4	アルカリ性に変質したナノバブル水の新たな効果についてーナノバブル水に浸けた容器内液体の性質変化ー	岩崎 浩	熊本県立農業大学校
D22-5	ヴァーチャル・キャンパスの食品容器ラベルへの応用ー射影ー	月井 雅晴	熊本県立矢部高等学校
D22-6	農業用微生物資材の開発とその展開ー微生物土壌活性剤エヌケイー52を通じてー	中村 己義	中村産業開発株式会社
D22-7	命と文化が光る笑顔の里づくりを目指してー農業高校性がブルデュース！グリーン・ツーリズムによる農村ビジネスの探究ー	細川るり香	菊池農業高校

Oct. 23	No.	Title	Presenter	Affiliation	Chair
09:00-10:00	K23-1	Big Data Analysis of Hybridization of Agricultures by Unsupervised Deep Learning	H. Szu	Catholic University of America	Takeshi Yamakawa
10:00-10:20		Break			
10:20-10:40	O23-1	Inhibition of blood coagulation by sulfated polysaccharides from Suizenji-nori <i>Aphanothece sacrum</i>	Narumi Okuyama	Sojo University	Sunao Katsuki
10:40-11:00	O23-2	Analysis of attractant of plant parasitic nematode, <i>Meloidogyne incognita</i>	Morihiro Oota	Kumamoto University	Sunao Katsuki
11:00-11:20	O23-3	Relational Data Analysis and its Possibility of Application to Agriculture, Forestry and Fisheries	Keiichi Horio	Kyushu Institute of Technology	Sunao Katsuki
11:20-13:00		Lunch			
13:00-14:00	K23-2	The Present Situation and Problems of My Organic Agriculture — Technologies to Add a Little Spice to Agriculture and My Life —	Takao Furuno	Fuzzy Logic Systems Institute	Takeshi Yamakawa
14:00-14:30		Break			
14:30-15:30	K23-3	Fantastic World of Tiny Bubbles — Fundamental Properties and Technical Applications of Micro and Nano-bubbles —	Masayoshi Takahashi	National Institute of Advanced Industrial Science and Technology	Shin-ichi Aoqui
15:30-16:00		Break			
16:00-17:00	K23-4	Agriculture 2.0 and Agricultural Literacy — Perspectives to sustainable society and its well-being —	Shigenori Morita	Tokyo University of Agriculture	Takeshi Yamakawa
17:00-17:30		Closing Remarks	Conference chair	Sojo University	