

# The Irago Conference 2014 Program List

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## 6PM session

- 6PM1-1 <Invited> “Interdisciplinary Research at EIIRIS”  
Makoto Ishida (Toyohashi University of Technology, Japan)
- 6PM1-2 <Invited> “Electronics-Inspired Strategies for Basic and Applied Research”  
Ryoji Chubachi (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- 6PM1-3 <Invited> “Development of Interdisciplinary Sciences at Okayama University – Progress, Trends and Future Prospects –”  
Shin-ichi Yamamoto (Okayama University, Japan)
- 6PM1-4 <Invited> “A simplified view of the complexity of cell stemness, development and differentiation”  
Makoto Asashima, Y. Itou, T. Kuwabara, H. Tateno, J. Hirabayashi (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- 6PM2-1 <Invited> “Intriguing Insights into How Catalysts Behave in Automobile Fuel Cells by Advanced XAFS Techniques”  
Yasuhiro Iwasawa (The University of Electro-Communications, Japan)
- 6PM2-2 <Invited> “Tire Technology for the Future”  
Hideki Komatsu (Bridgestone Corporation, Japan)
- 6PM2-3 <Invited> “Current Status of Biotechnology in Indonesia”  
Listyani Wijayanti (Agency for the Assessment and Application of Technology (BPPT), Indonesia)
- 6PM2-4 <Invited> “Measurement of Biological Activity of Cells: Challenges for Research and Manufacturing”  
A. L. Plant, M. Halter, S. Lund, G. Cooksey, J. Amelot, and P. Bajcsy (The National Institute of Standards and Technology (NIST), USA)
- 6PM2-5 <Invited> “Merger of Biotechnology and Bioinformatics “Strategic development by the Department of Biotechnology (DBT), Government of India” ”  
T. Madhan Mohan (Department of Biotechnology (DBT), India)
- 6PM2-6 “Custom-design of Zinc Finger Proteins for Targeted Genome Engineering”  
Shayoni Dutta, and Durai Sundar (Indian Institute of Technology (IIT), Delhi, India)

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## 7AM Session

- 7AM1-1 <Invited> “Indian Ayurvedic Herb-Ashwagandha for Cancer Treatment”  
R. Wadhwa, and S. Kaul (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- 7AM1-2 <Invited> “Adenovirus/Nanomaterial Complex for Cancer Gene Therapy”  
Chae-Ok Yun (Hanyang University, Korea)
- 7AM1-3 <Invited> “Naturally GREEN Cancer Chemorevention”  
Shivendra V. Singh (University of Pittsburgh Cancer Institute (UPCI), USA)
- 7AM2-1 <Invited> “Telomeres: opportunities for targeted cancer therapies”  
Roger Reddel (University of Sydney, Australia)
- 7AM2-2 <Invited> “Inherited Susceptibility to Cancer: Lessons in Cancer Biology”  
Joanna Groden, J. Harris, Z. Kaul, and S. Acharya (The Ohio State University, USA)

- 7AM2-3 “Therapeutic Effect of Coffee Component Hydroxy Hydro Quinone (HHQ) on Breast Cancer mediated via Transcriptional Factor PPAR gamma”  
Babita Shashni, Meena K. Sakharkar, and Yukio Nagasaki (University of Tsukuba, Japan; University of Saskatchewan, Canada; National Institute for Materials Science (NIMS), Japan)
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#### 7PM Session

- 7PM-1 <Invited> “An approach to clean, renewable energy source – Water oxidation by a natural catalyst photosystem II”  
Jian-Ren Shen (Okayama University, Japan)
- 7PM-2 <Invited> “Mystery of Bioluminescence”  
Yoshihiro Ohmiya (National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- 7PM-3 “Graphene Oxide-Based Nanohybrids for Multifunctional Applications”  
T. V. Thu, and A. Sandhu (Toyohashi University of Technology, Japan)
- 7PM-4 “Electronic Properties of Large Area Nitrogen Doped Trilayer Graphene on 4H-SiC (0001)”  
Mohamed Boutchich, Hakim Arezki, David Alamarguy, Kuan-Ho, Haikel Sediri, Fethullah Gunes, José Alvarez, Jean-Paul Kleider, Chao-Sung Lai, and Abdelkarim Ouerghi (Sorbonne Universités – UPMC, France; Chang Gung University, Taiwan, R.O.C.; LPN-CNRS, France)
- 7PM-5 <Invited> “Space medicine is the ultimate preventive medicine”  
Chiaki Mukai (Japan Aerospace Exploration Agency (JAXA), Japan)
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#### Graduate Student Session

- GSS-1 “Mortalin Expression Level as an Indicator of Anti-metastasis Potential of Breast Cancers Drugs”  
N. Nigam, P-C. Wang, S. Kaul, and R. Wadhwa (National Institute of Advanced Industrial Science and Technology (AIST), and University of Tsukuba, Japan)
- GSS-2 “Protection Against Oxidative Stress and Paraquat-induced Parkinson”  
J. Prakash, Y. Liu, S. P. Singh, R. Wadhwa, and S. Kaul (Banaras Hindu University, India; National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- GSS-3 “Development of enhanced protein delivery by polyampholyte nanoparticles using freeze concentration”  
Sana Ahmed, and Kazuaki Matsumura (Japan Advanced Institute of Science and Technology (JAIST), Japan)
- GSS-4 “Calcium imaging, dynamical modeling and the theory of a chemosensory circuit in *C. elegans*”  
M. Kuramochi, and M. Doi (University of Tsukuba, and National Institute of Advanced Industrial Science and Technology (AIST), Japan)
- GSS-5 “Effect of Co substitution on magnetostriction and Young’s modulus of Fe-Ga alloys”  
R. Ukai, S. Fujieda, Y. Onuki, K. Shinoda, S. Suzuki, and T. Fukuda (Tohoku University, and Fukuda Crystal Laboratory, Japan)
- GSS-6 “Heterogeneous Transfer-Hydrogenation of Aromatic Carbonyl Compounds using Formic Acid as Hydrogen Source over Supported Pd Catalysts ”  
P. Tomar, S. Nishimura, and K. Ebitani (Japan Advanced Institute of Science and Technology (JAIST), Japan; University of Delhi, India)
- GSS-7 “A New CCD-type Multi Ion Image Sensor with Four Sensing Areas Divided”  
Hikaru Sato, Kenta Tokunaga, Ryo Kato, Kazuaki Sawada, Fumihiro Dasai, and Toshiaki Hattori (Toyohashi University of Technology, Japan)
- GSS-8 “Centered Effects of Foliage Plants on Different Temperatures on Human Physiological Responses”  
Desto Jumeno, and Hiroshi Matsumoto (Toyohashi University of Technology, Japan)

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7P Poster Session

- 7P-1 “Room temperature ferromagnetism in Co and Nb co-doped TiO<sub>2</sub> nanoparticles”  
M. Hachisu, K. Mori, K. Hyodo, S. Morimoto, T. Yamazaki, and Y. Ichiyanagi (Yokohama National University, Japan)
- 7P-2 “Spatially resolved photoluminescence on multi stack InAs quantum dots”  
Ming Xu, Alexandre Jaffr, José Alvarez, Jean-Paul Kleider, Apichat Jittrong, Thitipong Chokamnui, Somsak Panyakeow, Mohamed Boutchich and Songphol Kanjanachuchai (Sorbonne Universités – UPMC, France; Chulalongkorn University, Kingdom of Thailand)
- 7P-3 “Effect of Ga-doping on the Properties of ZnO Nanowire”  
Takeshi Ishiyama, Takaya Nakane, and Tsutomu Fujii (Toyohashi University of Technology, Japan)
- 7P-4 “High proton irradiation tolerance of InAsSb quantum well based micro-Hall sensors”  
A. Abderrahmane, P. J. Ko, H. Okada, S. Sato, T. Ohshima, I. Shibasaki, and A. Sandhu (Toyohashi University of Technology, and Japan Atomic Energy Agency (JAEA), Japan)
- 7P-5 “High photosensitivity few-layered MoSe<sub>2</sub> back gated field-effect phototransistors”  
A. Abderrahmane, P. J. Ko, S. Ishizawa, T. Takamura and A. Sandhu (Toyohashi University of Technology, Japan)
- 7P-6 “Reducing few-layered MoSe<sub>2</sub> film to single-layer by laser etching”  
P. J. Ko, A. Abderrahmane, T. Takamura and A. Sandhu (Toyohashi University of Technology, Japan)
- 7P-7 “Observation of electrical evolution of graphene under electron beam irradiation”  
A. Nagahara, H. Okada, H. Takahashi, and A. Sandhu (Toyohashi University of Technology, Japan)
- 7P-8 “Role of Anions in the AuCl<sub>3</sub> -Doping Trilayers N-doped Graphene on 4H-SiC (0001)”  
Hakim Arezki, Mohamed Boutchich, David Alamarguy, Fethullah Gunes, José Alvarez, Jean-Paul Kleider, and Abdelkarim Ouerghi (Sorbonne Universités – UPMC, Univ Paris, and LPN-CNRS, France)
- 7P-9 “High-yield synthesis of carbon nanocoils achieved by a trilaminar structure of catalyst thin films”  
Y. Suda, T. Iida, H. Takikawa, H. Ue, K. Shimizu, and Y. Umeda (Toyohashi University of Technology, Tokai Carbon Co., Ltd., Shonan Plastic Mfg. Co., Ltd., and Toho Gas Co., Ltd., Japan)
- 7P-10 “Iron Oxide Nanoflowers: Synthesis, Characterization and Multimodal Application”  
A. C. Poulouse, S. Veeranarayanan, M. S. Mohamed, R. R. Abeurto, T. Mitcham, P. M. Ajayan, R. R. Bouchard, T. Maekawa, and D. S. Kumar (Toyo University, Japan; Rice University, University of Texas, USA)
- 7P-11 “Chemical Vapor Deposition of Silicon Nitride Films Enhanced by Surface-Wave Plasma for GaN Devices”  
H. Okada, K. Kawakami, T. Shinohara, T. Ishimaru, H. Sekiguchi, A. Wakahara, and M. Furukawa (Toyohashi University of Technology, and Aries Research Group, Japan)
- 7P-12 “AlGaN-based back-illuminated Schottky barrier diode for Ultraviolet-C detection”  
O. 1 Barry, and A. Wakahara (Toyohashi University of Technology, Japan)
- 7P-13 “Transient Heat Transfer Analysis of Pb(Zr,Ti)O<sub>3</sub> Thin Film Infrared Sensor Using Finite Element Model”  
K. Oishi, S. Yonemaru, D. Akai, and M. Ishida (Toyohashi University of Technology, Japan)
- 7P-14 “Fabrication of 2D Al nanodot array on thin polyparaxylylene film for surface-plasmon-based flexible color sheet”  
H. Kumagai, H. Honma, K. Takahashi, M. Ishida, and K. Sawada (Toyohashi University of Technology, Japan)
- 7P-15 “Transmitted light imaging apparatus for foods using spatial filtering optical system”  
Souphaphone Phetchalern, Yuya Ishii, Junji Okada, Takeshi Ishiyama, and Mitsuo Fukuda (Toyohashi University of Technology, Japan)

- 7P-16 “The optical detection of microorganisms”  
A. Takami, and T. Ishiyama (Toyohashi University of Technology, Japan)
- 7P-17 “Visualization of Chlorophyll Distribution using Optical Coherence Tomography”  
Junji Okada, Yuya Ishii, Takeshi Ishiyama and Mitsuo Fukuda (Toyohashi University of Technology, Japan)
- 7P-18 “Propagation of Magnetostatic Forward Volume Waves in Yttrium Iron Garnet with Roughened Surface for Logic Circuits”  
Jet Wei Hoong, Taichi Goto, Naoki Kanazawa, Altansargai Buyandalai, Hiroataka Yamashita, Ryohei Morimoto, Hiroyuki Takagi, Yuichi Nakamura, Shingo Okajima, Takashi Hasegawa and Mitsuteru Inoue (Toyohashi University of Technology, and Murata Manufacturing Co., Ltd., Japan)
- 7P-19 “Evaluation of frequency dependent Non-Linear Optical property using Long-range Correction method”  
Y. Yokoi, H. Ishimaru, M. Kamiya, and H. Sekino (Toyohashi University of Technology, and Gifu University, Japan)
- 7P-20 “Fabrication of Laminated Paper Fluidic Device Using a Cutting Plotter”  
N. Misawa, and Y. Hirose (Toyohashi University of Technology, Japan)
- 7P-21 “Electrochemical titration device with pyramidal microfluidic network”  
Y. Murakami, Y. Takesako, K. Moriyama, K. Araki, K. Aritome, and R. Miyake (Toyohashi University of Technology, CREST, and The University of Tokyo, Japan)
- 7P-22 “Characteristics of simple channel flows obtained by MR Imaginary”  
K. Hosotani, K. Nagahata, A. Ono, Y. Hashiguchi and K. Takeuchi (National Institute of Technology, Tsuyama College, Kousei Hospital, and National Hospital Organization Okayama Medical Center, Japan)
- 7P-23 “Selective Aerobic Oxidation of 1,3-Propanediol to 3-Hydroxypropanoic Acid using Hydrotalcite Supported Bimetallic Gold Nanoparticle Catalyst in Water”  
S. Nishimura, M. Mohammad, and K. Ebitani (Japan Advanced Institute of Science and Technology (JAIST), Japan; University of Delhi, India)
- 7P-24 “Investigation of Photoelectrochemical Properties of NiTi-Layered Double Hydroxide-Modified Electrodes for Water Oxidation”  
Shota Azuma, Go Kawamura, Hiroyuki Muto, Noriyoshi Kakuta, Tetsuro Uchikoshi and Atsunori Matsuda (Toyohashi University of Technology, and National Institute for Materials Science (NIMS), Japan)
- 7P-25 “Rapid Removal of Chromium(VI) from Aqueous Solution using Iron Oxide/Polyaniline Nanocomposites”  
V. D. Thao, and T. V. Thu (Le Quy Don Technical University, Vietnam; Toyohashi University of Technology, Japan)
- 7P-26 “Improved bioassay for detecting autoinducers of *Rhodovulum sulfidophilum*”  
T. Terada, Y. Kikuchi, and S. Umekage (Toyohashi University of Technology, Japan)
- 7P-27 “Morphologically distinct floc forming mutants of *Rhodovulum sulfidophilum* obtained by UV mutagenesis”  
A. Noda, Y. Kikuchi, and So Umekage (Toyohashi University of Technology, Japan)
- 7P-28 “Ammonia Nitrogen Removal System Using Capsules Containing Microalgae Isolated from Protozoa *Paramecium bursaria*”  
T. Takahashi, and M. Higashiguchi (National Institute of Technology, Miyakonojo College, Japan)
- 7P-29 “Removal of Zinc Ion in Aqueous Solution with Low Purity Magnetite”  
Seiji Yokoyama, Takeshi Teshima, M. N. N. Hisyamudin, J. Sasano, and M. Izaki (Toyohashi University of Technology, Japan; Universiti Tun Hussein Onn Malaysia, Malaysia)
- 7P-30 “Microbial community dynamics and activity in acidophilic nitrifying reactors using urea as the sole substrate”  
T. Kuroki, T. Kurogi, and A. Hiraishi (Toyohashi University of Technology, Japan)

- 7P-31 “Nitrate removal performance of *Diaphorobacter nitroreducens* using biodegradable plastics as the source of reducing power”  
S. T. Khan, Y. Nagao, and A. Hiraishi (Toyohashi University of Technology, Japan; King Saud University, Kingdom of Saudi Arabia)
- 7P-32 “Effect of Air Circulator on Airflow and Temperature Distributions in Greenhouse with Pad - Fan Evaporative Cooling System”  
T. Tokairin, A. Sumi, N. Shimomura, T. Kumazaki and M. Saigusa (Toyohashi University of Technology, Japan)
- 7P-33 “Development of a Wireless Sensor Network for Monitoring Environmental Distribution in Greenhouses”  
K. Li , T. Kumazaki, and M. Saigusa (Toyohashi University of Technology, Japan)
- 7P-34 “On-site Monitoring of Small Sized Medium Culture using Miniaturized Sensor Systems”  
M.Futagawa, and K.Sawada (Shizuoka University, and Toyohashi University of Technoogy, Japan)
- 7P-35 “Synthesis and Characterization of Copper Iron Sulfide Nanoparticles as Sustainable Low Temperature Thermoelectric Material”  
M. Singh, D. Ahuja, D. Mott, M. Koyano, and S. Maenosono (Japan Advanced Institute of Science and Technology (JAIST), Japan)
- 7P-37 “Construction and Characterization of Solar Cells combined with Silicon Carbide Electric Power Inverter”  
Takeo Oku, Taisuke Matsumoto, Kouichi Hiramatsu, and Masashi Yasuda (The University of Shiga Prefecture, Japan)
- 7P-38 “Fabrication and Characterization of Photovoltaic Devices with Perovskite-Type Structures”  
Masato Kanayama, Takeo Oku, and Atsushi Suzuki (The University of Shiga Prefecture, Japan)
- 7P-39 “Fabrication and characterization of phthalocyanine / fullerene-based thin film organic solar cells with inverted structures”  
H. Maruhashi, A. Suzuki, T. Akiyama, Y. Yamasaki and T. Oku (The University of Shiga Prefecture, and Orient Chemical Industries Co., Ltd., Japan)
- 7P-40 “Electrical Properties of Organic Solar Cells with P3HT:PCBM Active Layers by Solution Process”  
Ho Jung Chang, Jai Jin Jung, Yang Keun Cho, Ji Mook Kim, and Young Chul Chang (Dankook University, and Korea University of Technology and Education, Korea)
- 7P-41 “Effect of microstructure and photocharge separation on inorganic-organic hybrid solar cells using  $\text{CH}_3\text{NH}_3\text{PbI}_{3-x}\text{Cl}_x$  compounds”  
K. Suzuki, A. Suzuki, M. Zushi and T. Oku (The University of Shiga Prefecture, Japan)
- 7P-42 “Fabrication and characterization of organic thin film solar cells using metal complex of phthalocyanines”  
T. Kida, A. Suzuki, and T. Oku (The University of Shiga Prefecture, Japan)
- 7P-43 “Fabrication and Characterization of Inverted Organic Solar Cells using Shuttle Cock-Type Metal Phthalocyanine and PCBM:P3HT”  
A. Suzuki, R. Furukawa, T. Akiyama, and T. Oku (The University of Shiga Prefecture, Japan)
- 7P-44 “Base-Free Oxidation of Sugars into Sugar Acids using Hydrotalcite Supported Gold Catalyst in Water with Molecular Oxygen”  
R. Tomar, J. Sharma, S. Nishimura, and K. Ebitani (Japan Advanced Institute of Science and Technology (JAIST), Japan; University of Delhi, India)
- 7P-45 “Enhancing the efficiency of power generation for a polymer electrolyte fuel cell by switching the direction of fuel cell supply”  
T.Kobayashi, M.Fujiwara, and H.Kanematsu (Tsuyama National College of Technology, and Suzuka National College of Technology, Japan)
- 7P-46 “Thrust characteristics of the staggered arranged oscillating fin propulsor ”  
T. Ishii, D. Kobayashi, and K. Hosotani (National Institute of Technology, Tsuyama College, Japan)

- 7P-47 “Simulation of Temperature Distribution of Solid and Sodium Encapsulated Engine Valves”  
T. Kobayashi, I. Hashimoto, R. Hashimoto, H. Kanematsu, and Y. Utsumi (Tsuyama National College of Technology, Hiroshima University, Suzuka National College of Technology, and University of Hyogo, Japan)
- 7P-48 “Prototyping of a flexible crawler and study on driving properties”  
T.Kobayashi, and Y.Fujihara (National Institute of Technology, Tsuyama College, Japan)
- 7P-49 “Design and prototyping of power assist lawn-mower robot”  
T.Kobayashi, and Y.Yoshimasa (National Institute of Technology, Tsuyama College, Japan)
- 7P-50 “The Smallest Piezoelectric Ultrasonic Motor”  
T.Mashimo (Toyohashi University of Technology, Japan)
- 7P-51 “Development of Micro Ball Valve Using Green Alga *Volvox*”  
M. Nagai, M. Oguri, T. Kawashima, and T. Shibata (Toyohashi University of Technology, Japan)
- 7P-52 “Induced DNA independent aberrant transcription elongation of nascent RNA by binding T7 RNA polymerase at the 3’ end of stem-loop structure”  
Y. Kakimoto, A. Fujinuma, and S. Umekage (Toyohashi University of Technology, Japan)
- 7P-53 “Pseudoknot folding is essential for agarose aptamer binding”  
T. Koto, J. Sakashita, Y. Kikuchi, and S. Umekage (Toyohashi University of Technology, Japan)
- 7P-54 “Abnormal rapid non-linear RNA production by T7 RNA polymerase in the absence of a DNA template”  
Y. Kakimoto, A. Fujinuma, S. Fujita, Y. Kikuchi, and S. Umekage (Toyohashi University of Technology, Japan)
- 7P-55 “Evidence for RNA template-directed elongation induced by binding T7 RNA polymerase”  
Y. Kakimoto, A. Fujinuma, T. Sakamoto, Y. Kikuchi, and S. Umekage (Toyohashi University of Technology, Japan)
- 7P-56 “Utilization of RNase III activity for functional RNA production by a marine phototrophic bacterium, *Rhodovulum sulfidophilum*”  
N. Nagao, S. Umekage, and Y. Kikuchi (Toyohashi University of Technology, Japan)
- 7P-57 “Analysis of light color response of cyanobacteria using next generation sequencer”  
Y. Hirose, N. Misawa, S. Wakazuki, E. Sakai, and T. Eki (Toyohashi University of Technology, Japan)
- 7P-58 “Specific interactions between DNA and regulatory protein controlled by ligand-binding: *ab initio* molecular simulation”  
Y. Matsushita, T. Murakawa, K. Shimamura, M. Oishi, T. Ohyama, and N. Kurita (Toyohashi University of Technology, Japan)
- 7P-59 “Evolution of a Novel Organelle in Animalia”  
A. Nakabachi (Toyohashi University of Technology, Japan)
- 7P-60 “High-Speed Prediction of Crystal Structures for Organic Molecules”  
Shigeaki Obata, Mitsuaki Sato, and Hitoshi Goto (Toyohashi University of Technology, Japan)
- 7P-61 “Conformational analysis of  $\alpha/\beta$ -D-galactopyranose in water with aid of molecular dynamics simulation”  
Masaaki Matsubara, and Hitoshi Goto (Toyohashi University of Technology, Japan)
- 7P-62 “Analyses of EPS from Biofilm on Commercial metallic substrates”  
K. Kitayabu, H. Kanematsu, Y. Miura, K. Yamazaki, T. Kogo, N. Wada, and M. Yoshitake (National Institute of Technology, Suzuka College, and National Institute for Materials Science (NIMS), Japan)
- 7P-63 “Biofilm Formation on Commercial Polymer Film”  
Y. Nakako, H. Kanematsu, Y. Miura, K. Yamazaki, T. Kogo, N. Wada, M. Yoshitake (National Institute of Technology, Suzuka College, and National Institute for Materials Science (NIMS), Japan)

- 7P-64 “Polymer Giant Vesicles as Artificial Models for Biomembranes”  
E. Yoshida (Toyohashi University of Technology, Japan)
- 7P-65 “Electric Plasma on Biological Plasma Membrane”  
Ryugo Tero, Yoshiyuki Suda, Ryuma Yamashita, and Hirofumi Takikawa (Toyohashi University of Technology, Japan)
- 7P-66 “Substrate effects on the molecular diffusion in supported lipid membrane”  
T. Motegi, K. Yamazaki, T. Ogino, and R. Tero (Toyohashi University of Technology, Hokkaido University, and Yokohama National University, Japan)
- 7P-67 “The development of novel electroporation for cell physiological research”  
R. Numano, M. Matsuo, H. Kurita, and A. Mizuno (Toyohashi University of Technology, Japan)
- 7P-68 ““Toyohashi Probe” Road to Actual Usable Neuroprobe ~ Parasitic Impedance and Accessibility ~”  
Hideo Oi, Takeshi Kawano, and Makoto Ishida (Toyohashi University of Technology, Japan)
- 7P-69 “Low noise electrophysiological setup for intracellular recordings from retinal horizontal cells”  
N. L. Kamiji, T. Harimoto, and S. Usui (Toyohashi University of Technology, Japan)
- 7P-70 “Spatial Distribution of Multifocal Electroretinogram in Carp”  
T. Harimoto, and S. Usui (Toyohashi University of Technology, and RIKEN BSI, Japan)
- 7P-71 “The spatial resolution analysis of the bundle-fiber-coupled microscope for *in vivo* bioluminescence imaging”  
Y. Ando, K. Koida, T. Sakurai, M. Natsume, and R. Numano (Toyohashi University of Technology, and Denkosha, Japan)
- 7P-72 “Color selective response of neurons in the monkey inferior temporal cortex for natural object images”  
K. Koida (Toyohashi University of Technology, Japan)
- 7P-73 “Effect of spatial coordination of responses on judging other’s pain”  
S. Sasaki, S. Itakura, and M. Kitazaki (Toyohashi University of Technology, and Kyoto University, Japan)
- 7P-74 “Real time monitoring of inhibitory effects on glutamate-induced neurotransmitter release using potassium ion image sensor”  
Akiteru Kono, Takashi Sakurai, Toshiaki Hattori, Koichi Okumura, Makoto Ishida, and Kazuaki Sawada (Toyohashi University of Technology, and JST-CREST, Japan)
- 7P-75 “Propose of new fabrication method with double PVC layer for multi-ion image sensor chip”  
Y. Saka, A. Kono, K. Takahashi, T. Horio, K. Okumura, T. Sakurai, T. Hattori, M. Ishida, and K. Sawada (Toyohashi University of Technology, and JST-CREST, Japan)
- 7P-76 “Ink-jet Printed YBCO Superconducting Film and Influence of Frequency on Surface Resistance in Very Low Temperature”  
S. I. Jang, G. H. Choi, G. D. Mo, P. R. Kim, Y. K. Jun, and N. H. Kim (Chosun University, Korea)
- 7P-77 “FePtAu Ternary Alloy Nanoparticles as Novel Magneto-Plasmonic Bioprobes”  
P. Mohan, M. Takahashi, R. Rastogi, D. Mott, and S. Maenosono (Japan Advanced Institute of Science and Technology (JAIST), Japan)
- 7P-78 “Minimally Invasive Dielectrophoretic Manipulation of Single Cells with Polymer-Coated Microelectrodes”  
Yuya Matsuse, Moeto Nagai, Takahiro Kawashima, and Takayuki Shibata (Toyohashi University of Technology, Japan)
- 7P-79 “Fabrication and Actuation of Movable Magnetic Parts in Enclosed Microfluidic Systems”  
Y. Hattori, M. Nagai, T. Kawashima, and T. Shibata (Toyohashi University of Technology, Japan)

- 7P-80 “Characterization of Electrokinetic DNA Ejection through Stepped-Hollow-Nanoneedle-Tip for Biological Scanning Probe Microscope”  
Motoki Banno, Moeto Nagai, Takahiro Kawashima, and Takayuki Shibata (Toyohashi University of Technology, Japan)
- 7P-81 “Microcapillary capsule for nanoscale and real time observation of materials in liquid TEM environment”  
T. Takamura, S. Koide, P. J. Ko, T. Tahara, S. Ishizawa, M. Ishida, P. Southern, D. Ortega, Q. Pankhurst, and A. Sandhu (Toyohashi University of Technology, Japan; The Royal Institution, and University College London, UK; Instituto Madrieno de Estudios Avanzados en Nanociencia, Spain)
- 7P-82 “Nano-thermocouple AFM for monitoring heating of magnetic nanoparticles”  
C. Blanco-Andujar, P. Southern, T. Takamura, and A. Sandhu (University College London (UCL), UK; Toyohashi University of Technology, Japan)
- 7P-83 “CdSe/Cu<sub>2</sub>S Hybrid Nanocrystals for Multichannel Imaging and Cancer Directed Photo-Thermal Therapy”  
M. S. Mohamed, A. C. Poulouse, S. Veeranarayanan, R. R. Abeurto, T. Mitcham, Y. Suzuki, Y. Sakamoto, P. M. Ajayan, R. R. Bouchard, Y. Yoshida, T. Maekawa, and D. S. Kumar (Toyo University, Japan; Rice University, and University of Texas, USA; Saitama Medical University, Japan)
- 7P-84 “Targeted curcumin and SPIONs encapsulated polymeric nanoformulation for antiproliferation of cancer cells”  
B. Sivakumar, R.G. Aswathy, T. Maekawa, and D. Sakthikumar (Toyo University, Japan)
- 7P-85 “Ashwagandha Leaf Extract and its Active Constituents Cause Oxidative Stress to Lung Cancer Cells”  
Y. Liu, Z. Zhang, R. Wadhwa, and S. C. Kaul (National Institute of Advanced Industrial Science and Technology (AIST), and University of Tsukuba, Japan)
- 7P-86 “Functional Analysis of Cyclodextrin Assisted Preparation of Ashwagandha Leaf Extract”  
C. Huang, Y. Ishida, R. Gao, T. Iitsuka, K. Terao, R. Wadhwa, and S. C. Kaul (National Institute of Advanced Industrial Science and Technology (AIST), and CycloChem Co., Ltd., Japan)
- 7P-87 “Methoxy Derivative of Withaferin A Lacks Anticancer Potency”  
A. Chaudhary, C. Huang, Z. Zhang, K. Sekar, R. Wadhwa, and S. Kaul (National Institute of Advanced Industrial Science and Technology (AIST), and University of Tsukuba, Japan; Indian Institute of Science (IISc), Bangalore, India)
- 7P-88 “Anticancer Potency of Phytochemicals In Conjunction with Conventional Drugs”  
L. Li, Z. Zhang, R. Wadhwa, and S. Kaul (National Institute of Advanced Industrial Science and Technology (AIST), and University of Tsukuba, Japan)
- 7P-89 “Nuclear Mortalin Contributes to Carcinogenesis”  
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