

Poster presentations

P001: Development of effective immune-inducing system using pH-sensitive polysaccharide-modified liposomes and TGF- β signal inhibitor-embedded liposomes

Eiji Yuba [Osaka Prefecture University]

P002: D-Octaarginine-linked polymers as promising adjuvants for mucosal vaccination that prevent hosts from being infected with homologous H1N1 influenza A viruses

Kohei Miyata [Setsunan University]

P003: Capture and release of lymphocyte on an antibody-immobilized surface

Tsuyoshi Kimura [Tokyo Medical and Dental University]

P004: Identification of the minimum unit of a KALA peptide for gene delivery and immune activation

Hidetaka Akita [Chiba University]

P005: STING ligand loaded lipid nanoparticles enhance cancer immunotherapy

Takashi Nakamura [Hokkaido University]

P006: Immunoliposome with Single Chain Transmembrane Antibody Prepared by Cell-free Protein Synthesis

Risako Miura [Kyoto University]

P007: pH-Sensitive polymer-modified liposome-based immunity inducing system: the effect of inclusion of cationic lipid and CpG-DNA

Yuta Yoshizaki [Osaka Prefecture University]

P008: Design of non-natural nucleosides for stabilization of triplex DNA with the multiple inversion sites

Shigeki Sasaki [Kyushu University]

P009: Development of Enzyme-loaded PIC vesicles for Enzyme/Prodrug Therapy

Yasutaka Anraku [The University of Tokyo]

P010: Systemic messenger RNA delivery using polyplex nanomicelles for pancreatic cancer treatment

Satoshi Uchida [The University of Tokyo]

P011: Optimized Major Axis Length of Rod-Shaped Polyplex Micelles for Maximizing Gene Transfection in Systemic Therapy Against Stroma-Rich Pancreatic Tumors

Anjaneyulu Dirisala [Innovation Center of NanoMedicine (iCONM)]

P012: Antibody Fragment Installed Polymeric Micelle

HyunJin Kim [The University of Tokyo]

P013: Development of liposomal siRNA carriers using slightly acidic pH-sensitive peptide SAPSP for cancer therapy

Susumu Hama [Kyoto Pharmaceutical University]

P014: Cell-Penetrating Peptide Conjugated Gemcitabine for Enhanced Cancer Treatment

Dongwook Jung [Seoul National University]

P015: Temperature Responsive Nanofiber meshes for Thermo-chemotherapy Triggered by Magnetic Field

Eri Niiyama [University of Tsukuba]

P016: Dual pH-responsive polymeric micelle for tumor cell selective uptake of anti-tumor agent

Yuki Hiruta [Keio University]

P017: Long-Bioavailability of Redox Nanoparticles Effectively Protects Mice against Ionizing Radiation

Chitho P. Feliciano [University of Tsukuba]

- P018: Application of DNA containing nanoparticle based on the intracellular environment-responsive lipid-like material to the antitumor adjuvant
Minori Kawai [Hokkaido University]
- P019: Size-modulated polymeric micelles for cancer therapy during pregnancy
Jingyu Wan [The University of Tokyo]
- P020: Hyaluronic acid derivative-modified liposomes for target-specific intracellular drug delivery
Maiko Miyazaki [Osaka Prefecture University]
- P021: Different morphologies of bioprobes in tumor cells targeted intracellular fluorescent light-up and photothermal therapy
Bangbang Li [Zhejiang University]
- P022: Near-Infrared Light Induced Photodynamic Therapy by Using Rare-Earth Doped Ceramic Nanoparticles
Ayumu Omoto [Tokyo University of Science]
- P023: Assembly of α -Helical Polymer Chains Plays a Key Role in Tumor-Targeting Performance of Platinum-Loaded Polymeric Micelles
Yuki Mochida [Innovation Center of NanoMedicine]
- P024: Photodynamic therapy using ICG loaded lactosomes in an experimental peritoneal dissemination of gastric cancer model
Shinsuke Nomura [National Defense Medical College]
- P025: pH-Activatable Targeted Nanomedicine Eradicates Orthotopic Mesothelioma bearing Recalcitrant Cancer Stem Cell Sub-Population
Hiroaki Kinoh [Innovation Center of NanoMedicine]
- P026: Co-Delivery of Sorafenib and a MEK Inhibitor with Targeted Nanoparticles Overcomes Paradoxical MAPK Pathway Activation in the Treatment of Liver Fibrosis
Chih-Chun Chang [National Tsing Hua University]
- P027: Overcoming Sorafenib Evasion in Hepatocellular Carcinoma Using CXCR4-targeted Nanoparticles to Co-deliver MEK-inhibitors
Yun-Chieh Sung [National Tsing Hua University]
- P028: Development of Porphyrin/Polyaminoacid-based Worm-like Micelles for Drug Delivery
Yuka Onuma [The University of Tokyo]
- P029: Investigation on the correlation between physicochemical properties and tumor targeting abilities of zwitterionic homopolymers
Haruka Iki [The University of Tokyo]
- P030: Brain Tumor targeting by cRGD Peptide encircled Polymeric Micelles loaded with potent antiglioblastoma agent Epirubicin
Sabina Quader [Innovation Center of Nanomedicine]
- P031: Effective Treatment of Locally Advanced Head and Neck Squamous Cell Carcinoma Bearing Cancer Stem-Like Cells by cRGD Peptide-Installed Cisplatin-Loaded Micelles
Kazuki Miyano [The University of Tokyo]
- P032: Systemic Targeting of Lymph Node Metastasis by Using Drug-Loaded Polymeric Micelles
Horacio Cabral [The University of Tokyo]
- P033: Proteasome inhibitor loaded micelles enhance antitumor activity through macrophage reprogramming by NF- κ B inhibition
John D. Martin [The University of Tokyo]

- P034: High heat generation ability in AC magnetic field of Y₃Fe₅O₁₂-based ferrite powder prepared by sol-gel route
Kyosuke Naganuma [National Institute of Technology, Niihama college]
- P035: Polyamidoamine dendrimer-gold nanorod hybrids for non-invasive photothermal chemotherapy
Takuya Hashimoto [Osaka Prefecture University]
- P036: Novel glutamine-based polymeric ligand for transporter-mediated tumor targeting
Naoki Yamada [Tokyo Institute of Technology]
- P037: MicroRNA Detection on a Surface-Functionalized Power-Free Microchip using Radiation Beam-Induced Graft Polymerization
Ryo Ishihara [Tokyo University of Science]
- P038: Mono-Ion Complex for In Vivo Diffusive Plasmid DNA Delivery
Shoichiro Asayama [Tokyo Metropolitan University]
- P039: Design of polyplex micelles with pH and ATP dual-responsive Cross-linking for Efficient Gene Delivery -Effect of phenylboronic acid based cross-linking on intracellular trafficking-
Naoto Yoshinaga [The University of Tokyo]
- P040: Sub-50 nm-sized actively-targeted unimer polyion complex-assembled gold nanoparticles for subcutaneous cervical cancer treatment using E6-siRNA
Yu Yi [The University of Tokyo]
- P041: Faint electric treatment induces cytoplasmic delivery of functional macromolecules via changing endosome property
Koki Fujikawa [Tokushima University]
- P042: Elongated polyplexes prepared from pDNA and poly(L-lysine) terminally bearing multi-arm PEG
Atsushi Harada [Osaka Prefecture University]
- P043: Control of nanoparticle assembly between nucleic acid and block-cationomer
Kotaro Hayashi [Innovation Center of NanoMedicine]
- P044: Dry Naked pDNA Powders for Inhalation with Excellent Gene Expression and Inhalation Performance
Takaaki Ito [Meijo University]
- P045: Messenger RNA-based therapeutics for the treatment of Fas-ligand induced fulminant hepatitis mouse model
Akitsugu Matsui [The University of Tokyo]
- P046: Development of Temperature-Responsive Nanocarrier for Delivery of Nucleic Acid
Momoko Hasegawa [Keio University]
- P047: PEG detachment-induced packaging structure change of DNA within polyplex micelles
Theofilus A. Tockary [The University of Tokyo]
- P048: Biodistribution and Biostability of siRNA Following Intravenous and Pulmonary Administration of Self-Assembled siRNA/Lipid Nanoparticles
Tomoyuki Okuda [Meijo University]
- P049: ATP-Responsive Polyion Complex Micelles for Intracellular Delivery of siRNA
Mitsuru Naito [The University of Tokyo]
- P050: Visible Light-Triggered Cell Recovery System from Intelligent Fluoropolymer Coated Surface
Masamichi Nakayama [Tokyo Women's Medical University]

- P051: Thermoresponsive Microfibers for Purification of Adipose Derived Mesenchymal Stem Cells
Kenichi Nagase [Tokyo Women's Medical University]
- P052: Tough Hydrogel Bondable to Bone by Osteogenesis Penetration
Takayuki Nonoyama [Global Institution for Collaborative Research and Education]
- P053: Fabrication of porous hydroxyapatite nanofibers
Fu-Yin Hsu [National Taiwan Ocean University]
- P054: Control of Cell-Cell Interaction by Cell Surface Modification with Recombinant Proteins
Yusuke Arima [Kyoto University]
- P055: Heparin-immobilized Thermoresponsive Cell Culture Surface for Sustained Growth Factor Stimulation and Cell Sheet Recovery
Jun Kobayashi [Tokyo Women's Medical University]
- P056: Development of Hydrophobically-modified Allaska Pollock Gelatin-based Tissue Adhesives for Biomedical Applications
Yosuke Mizuno [University of Tsukuba]
- P057: Enhanced Vascularization in Layered Cardiomyocyte Sheets using VEGF Releasing PVA Fiber Mat
Yuhei Nagumo [Tokyo Women's Medical University]
- P058: Synthesis and self-assembly properties of PEG-containing multiblock amphiphiles
Rui Li [Tokyo Institute of Technology]
- P059: Characterization of poly(N-isopropylacrylamide) gel grafted polydimethylsiloxane as a stretchable temperature-responsive cell culture substrate
Yoshikatsu Akiyama [Tokyo Women's Medical University]
- P060: Aggregation Behavior of Thermo- and Ultrasound-responsive Ionic Liquid Polymer
Kohei Itsuki [University of Hyogo]
- P061: Regulation of macrophage response to tissue-engineered vascular graft with branched PEG modifier
Atsushi Mahara [National Cerebral and Cardiovascular Center Research Institute]
- P062: Engineering Contractile Muscle Tissue Construct based on Cell Sheet Technology
Hironobu Takahashi [Tokyo Women's Medical University]
- P063: GLP-1 Analog Loaded Redox-Active Injectable Gel for Diabetes Therapy
Sho Sakaue [University of Tsukuba]
- P064: Large-scale preparation of hair follicle germs using oxygen-permeable PDMS microarray chips
Tatsuto Kageyama [Yokohama National University]
- P065: Enhancement of blood vessel formation in prevascularized cell-dense tissues by growth factors administration
Qin Zhang [Tokyo Women's Medical University]
- P066: Monolayer/Spheroid Cell Culture Switching by UCST-type Thermoresponsive Ureido Polymers
Naohiko Shimada [Tokyo Institute of Technology]
- P067: Preserved Liver-Specific Functions of Primary Human Hepatocytes in Cell Sheet-Based Human Liver Tissues
Botao Gao [Tokyo Women's Medical University]
- P068: Accelerated Lipid Accumulation in Microalgae *Chlamydomonas debaryana* by Spherical Aggregation in Beads of Alginate Hydrogel
Toru Yoshitomi [The University of Tokyo]

- P069: Microengineered Collagen-based Vasculature Model for Evaluating Endothelial Permeability
Ryo Usuba [The University of Tokyo]
- P070: Self-setting β -TCP granular cement for bone formation
Akira Tsuchiya [Kyushu University]
- P071: In vitro microvasculature model simulating a diseased blood vessel
Joris Pauty [The University of Tokyo]
- P072: Click-crosslinkable and photodegradable gelatin hydrogels for cell separation
Masato Tamura [National Institute of Advanced Industrial Science and Technology]
- P073: Encapsulation of individual cells with cytoprotective polymer shell
Jianmin Yang [National Institute for Materials Science (NIMS)]
- P074: Discriminating the influence of cell adhesion and spreading area on mesenchymal stem cell differentiation
Xinlong Wang [National Institute for Materials Science]
- P075: Gelatin Hydrogels with Tunable Stiffness for 3D culture of Chondrocytes
Xiaomeng Li [National Institute for Materials Science]
- P076: Preparation of Environment-sensitive Tetra-gel by Using Stimuli-sensitive Macromer
Tomoko Sakamaki [Tokyo Medical and Dental University]
- P077: Establishing stable angiogenesis by alteration of matrix composition
Eujin Lee [University of Tokyo]
- P078: Electronics-free and synthetic polymeric materials based approach toward artificial pancreas
Akira Matsumoto [Tokyo Medical and Dental University]
- P079: Patterning of Multi-Types of Cells on Caged Poly(Ethylene Glycol)-Lipid Surface
Shinya Yamahira [The University of Tokyo]
- P080: Spatiotemporal Control of Cardiac Anisotropy Using Dynamic Nanotopographic Cues
Koichiro Uto [University of Washington]
- P081: A New Perspective on Cyclodextrins as Adhesive Supplements for Injectable Gelatin-based Hydrogels
Thai Thanh Hoang Thi [Ajou University]
- P082: Surface Immobilization of Heparin and Silver Nanoparticles for Anti-thrombotic and Anti-microbial Activities
Phuong Le Thi [Ajou University]
- P083: Design of a gradient self-oscillating polymer brush with controlled unidirectional motion by saATRP
Tsukuru Masuda [The University of Tokyo]
- P084: Supramolecular surfaces with hydrated molecular mobility for constructing dynamic biointerfaces
Yoshinori Arisaka [Tokyo Medical and Dental University]
- P085: Photo-Dimerization Induced Dynamic Viscoelastic Changes in ABA Triblock Copolymer-Based Hydrogels for 3D Cell Culture
Ryota Tamate [The University of Tokyo]
- P086: Control of Undesired Cell Dysfunctions by ROS-scavenging Biointerfaces
Yutaka Ikeda [University of Tsukuba]

- P087: Temperature-responsive Biodegradable Injectable Polymer Systems Forming Covalently Cross-linked Hydrogel by Thiol-ene Reaction
Yasuyuki Yoshida [Kansai University]
- P088: Temperature-responsive Biodegradable Injectable Polymer Systems Forming Covalently Cross-linked Hydrogel Using Polyamines
Keisuke Kawahara [Kansai University]
- P089: Biocompatibility of Graft-Type Gel with Concentrated Polymer Brush Structure
Chiaki Yoshikawa [National Institute for Materials Science]
- P090: Hydroxyapatite surface grafted with zwitterionic MPC polymer containing calcium-binding groups can resist oral bacterial adhesion
Sunah Kang [Seoul National University]
- P091: Evaluation of adhesive properties and cell adhesion of MPC polymer-coated substrates
Musashi Ikeda [Osaka Prefecture University]
- P092: Engineered Bio-hybrid Actuators Consisting of Microgrooved Nanosheets and Skeletal Muscle Cells
Arihiro Hasebe [Waseda University]
- P093: Stimuli-Responsive Polymers That Undergo Sol-Gel Phase Transition in Response to Light and Target Biomolecule for Cell Cultures
Takashi Miyata [Kansai University]
- P094: Preparation of Polymer Film with Protein Antifouling Properties on Glass
Tomoko Honda [University of Hyogo]
- P095: Sensing Cell Barrier Functions by Proton Dynamics
Tatsuro Goda [Tokyo Medical and Dental University]
- P096: UV Patterned Calixarene-Derived Supramolecular Gels
Ji Ha Lee [the University of Kitakyushu]
- P097: Multi-functional biomaterials with nano-segments for stem/blood cells attachment and detachment control
Chih-Chen Yeh [Chung Yuan Cristian University]
- P098: General Bio-Inert Control via Biomimetic Formula Anchoring of Zwitterionic Sulfobetaine Copolymers on Versatile Substrates
Dizon(Gian Vincent) [Chung Yuan Christian University]
- P099: Targeted traceable drug delivery system for next generation drugs based on micelles with aggregation induced emission compounds and fluorescent proteins
Miho Suzuki [Saitama University]
- P100: Phase Transition of Artificial Plasma Membrane Induced by Surface-Modified Gold Nanorods
Tomohiro Nobeyama [Kyoto University]
- P101: Preparation of Stimuli-responsive Gel Capsules via Miniemulsion Periphery RAFT Polymerization as Drug Delivery Carrier
Akifumi Kawamura [Kansai University]
- P102: Formation of Polyion Complex Vesicles Composed of Oppositely Charged Diblock Copolymers
Yuki Ohara [University of Hyogo]
- P103: Functionalization of TiO₂ nanoparticles/polyallylamine polyion complexes for sonodynamic therapy
Junpei Morimoto [Osaka Prefecture University]

- P104: Exploring anti-PEG antibody's (anti-PEG Ab) behaviors in relation to hydrophobicity of PEG-conjugates
Koichi Shiraishi [The Jikei University]
- P105: Surface force and vibrational spectroscopic analyses about interfacial water of oligo(ethylene glycol)-terminated monolayers: To understand mechanisms underlying "bioinertness"
Taito Sekine [Tokyo Institute of Technology]
- P106: Plasmid DNA-loaded polyplex micelle with double-protective compartments of hydrophilic shell and thermo-switchable palisade of poly(oxazoline)-based block copolymers for promoted gene transfection
Shigehito Osawa [Innovation Center of NanoMedicine]
- P107: Acid-labile polyrotaxanes improve impaired cholesterol metabolism in Niemann-Pick type C disease model mice
Atsushi Tamura [Tokyo Medical and Dental University]
- P108: Label-free and Specific Virus Detection Using Densely Immobilized Sialic Acid Receptors
Yukichi Horiguchi [Tokyo Medical and Dental University]
- P109: Investigation of Changes in the Microscopic Structure of Hydrogel Microspheres toward Controlled Uptake/Release of Functional Molecular
Takuma Kureha [Shinshu University]
- P110: Design of LAT1-targeting fluorescent polymer probes
Minami Matsuura [Keio University]
- P111: Effects of encapsulation in poly-(lactic-co-glycolic acid) on metabolism of curcumin via oral administration
Taiki Miyazawa [Tokyo Medical and Dental University]
- P112: Nanoparticles Loaded with Preservatives for Delivering in Solid Wood
Yi-Chun Chen [National Chung Hsing University]
- P113: Terminal-Specific Interaction between Double-Stranded DNA Layers: Colloidal Behavior and Surface Force
Naoki Kanayama [Shinshu University]
- P114: Synthesis of biodegradable thermoresponsive hydrogel via radical copolymerization
Syuuhei Komatsu [Tokyo University of Science]
- P115: Intracellular dual fluorescent light-up bioprobes for image-guided photodynamic cancer therapy
Haijie Han [Zhejiang University]
- P116: Over-1000 nm Near-Infrared Fluorescent Probes for Non-Invasive Deep Tissue Bioimaging
Masao Kamimura [Tokyo University of Science]
- P117: Non-invasive visualization of angiogenesis dynamics in 3D in vitro microvasculature model by OCT
Haruko Takahashi [The University of Tokyo]
- P118: PARCEL: Nano Particles for Imaging Probes
Shuhei Murayama [National Institutes for Quantum and Radiological Science and Technology]
- P119: RGD-containing PEGylated-PEI/DNA polyplex micelles as radiotracers for a tumor-targeting imaging probe
Ging-Ho Hsiue [National Chung Hsing University]
- P120: Prediction of therapeutic effects of liposomal anti-cancer drugs by SPECT/CT with radioactive liposomes
Hirofumi Fujii [National Cancer Center]
- P121: Mesoporous Phospholipid Particle as a Novel Platform Carrier for Drug Delivery
Kohsaku Kawakami [National Institute for Materials Science]

- P122: Development of a safe and effective redox nanoparticle for gastrointestinal disorders
Long Binh Vong [University of Tsukuba]
- P123: Extracellular Vesicle Detection on a Power-Free Microchip Functionalized by Electron Beam Grafting
Yoshitaka Uchino [Tokyo University of Science]
- P124: Synthesis of Amphoteric Random Copolymers and Protein Antifouling Properties
Rina Nakahata [University of Hyogo]
- P125: Polymer Micelles Formed from Oppositely Charged Anionic pH-responsive Unimer Micelles and Cationic Diblock Copolymers
Shin-ichi Yusa [University of Hyogo]
- P126: Transfected Cell-Microarray Identifies the Kinases and Regulatory Proteins Involved in Cell Migration
Satoshi Fujita [National Institute of Advanced Industrial Science and Technology]
- P127: Functions of Multi-block Steroid-based Oligomers
Maho Kato [Tokyo Institute of Technology]
- P128: A novel method for separation of primary amine containing molecules using a reversible covalent bond based on a special type anhydride
Youngjun Song [College of Natural Sciences]
- P129: Membrane Rigidity of Liposome Determined by Means of Atomic Force Microscopy and Its Relation to Cellular Uptake Efficiency
Yuki Takechi-Haraya [National Institute of Health Sciences]
- P130: Reversible Interparticle Distance Changes of DNA-Templated Gold Nanoparticle Assemblies with a Beads-on-a-string-like structure
Yoshitsugu Akiyama [RIKEN]
- P131: Functional characterization of novel Sialyl Lewix X mimic coated-liposomes targeting to E-selectin
Chanikarn Chantarasrivong [Kyoto University]
- P132: Lysosomal local release of methylated β -cyclodextrins from acid-labile polyrotaxanes to induce autophagy and autophagic cell death
Kei Nishida [Tokyo Medical and Dental University]
- P133: Novel oligonucleotide to regulate the blood-brain barrier
Hiroya Kuwahara [Tokyo Medical and Dental University]
- P134: Reversible conformational change of DNA aptamer inside thermoresponsive hydrogel
Aya Mizutani Akimoto [The University of Tokyo]
- P135: Glutathione activatable photosensitizer-conjugated pseudopolyrotaxane nanocarriers for photodynamic theranostics
Qiao Jin [Zhejiang University]