Time table at a glance

Dec. 14 (Thr.)	Dec. 15 (Fri.)	Dec. 16 (Sat.)
Registration (9:00~)	**Registration** (9:00~)	**Registration** (9:00~)
Opening remarks (9:30~9:35)		
Session 1 **New aspects of biomolecules** Jian-Ren Shen Todd O. Yeates Eiji Nakata* Roland K. O. Sigel Xing Chen (9:35~12:45)	**Session 3** **Artificial molecular systems beyond biological functions** Rein V. Ulijn Hiroyuki Asanuma Yoshiyuki Kageyama* Jonathan Clayden Vivian W. W. Yam (9:10~12:20)	**Session 5** **New structure and function of biomolecular systems** F. Akif Tezcan Takashi Hayashi Tasuku Hirayama* Sijbren Otto Kazunari Akiyoshi (9:10~12:20)
Lunch (12:45~13:30)	**Lunch** (12:20~13:10)	**Lunch** (12:20~13:30)
Poster session Odd numbered (13:30~14:15) Even numbered (14:15~15:00)	**Poster session** Even numbered (13:10~13:55) Odd numbered (13:55~14:40)	**Session 6** **Physical and quantitative understanding of cells at molecular level** Evan W. Miller Jie Yan Tamaki Endoh* Hidehito Tochio Gray J. Pielak (13:30~16:40)
Session 2 **Organic chemistry in cells** Motomu Kanai Peng Chen Shinya Hagihara* Yimon Aye Benjamin G. Davis (15:00~18:10)	**Session 4** **Chemistry for cell analysis and regulation** Michael Z. Lin Moritoshi Sato Yuichiro Hori* Hyun-Woo Rhee Jason W. Chin (14:40~17:50)	**Closing remarks** (16:40~16:45)
	Banquet **@Restaurant KIHADA** (18:00~19:30)	

Invited lectures: 40 min
*: 20 min

Time schedule

Day 1 (Dec 14th)

9:00 ~ Registration

9:30 ~ 9:35 Opening remarks

9:35 ~ 12:45

Session 1: New Aspects of Biomolecules

Chair: Shun Hirota (Nara Institute of Science and Technology), Toshitaka Matsui (Tohoku University)

9:35 ~ 10:15

O-1 Mechanism of photosynthetic water oxidation based on the structural analysis of photosystem II
Jian-Ren Shen
Okayama University, Japan

10:15 ~ 10:55

O-2 Giant protein assemblies in nature and by design
Todd O. Yeates
UCLA, USA

10:55 ~ 11:05 Break

Chair: Osami Shoji (Nagoya University), Takashi Otsuki (Okayama University)

11:05 ~ 11:25

O-3 DNA binding adaptors to locate multiple enzymes on DNA scaffold
Eiji Nakata
Kyoto University, Japan (Young investigator)

11:25 ~ 12:05

O-4 Folding and splicing of single group II intron ribozymes
Roland K. O. Sigel
University of Zurich, Switzerland

12:05 ~ 12:45

O-5 Chemical labeling and quantitative analysis of protein O-GlcNAcylation
Xing Chen
Peking University, China

12:45 ~ 13:30 Lunch

13:30 ~ 15:00 Poster session

13:30 ~ 14:15 Odd numbered
14:15 ~ 15:00 Even numbered

15:00 ~ 18:10

Session 2: Organic Chemistry in Cells

Chair: Akio Ojida (Kyushu University), Shin Mizukami (Tohoku University)

15:00 ~ 15:40

O-6 A method for site-selective histone lysine N-acylation
Motomu Kanai
The University of Tokyo, Japan

15:40 ~ 16:20

O-7 Exogenous chemistry for intracellular protein manipulations
Peng Chen
Peking University, China

16:20 ~ 16:30 Break

Chair: Junko Ohkanda (Shinshu University), Shigeki Kiyonaka (Kyoto University)

16:30 ~ 16:50

O-8 Small molecules that regulate plant hormone signaling
Shinya Hagihara
Nagoya University, Japan (Young investigator)

16:50 ~ 17:30

O-9 Translating the precision electrophile signaling code
Yimon Aye
Cornell University, USA

17:30 ~ 18:10

O-10 Sugars & proteins: towards a synthetic biology
Benjamin G. Davis
University of Oxford, UK

Day 2 (Dec 15th)

9:00 ~ Registration

9:10 ~ 12:20

Session 3: Artificial Molecular Systems beyond Biological Functions

Chair: Masayasu Kuwahara (Gunma University), Kazunori Matsuura (Tottori University)

9:10 ~ 9:50

O-11 Peptide nanotechnology: Finding new functions in the peptide sequence space
Rein V. Ulijn
CUNY ASRC, USA

9:50 ~ 10:30

O-12 Design of totally acyclic XNAs for medical applications
Hiroyuki Asanuma
Nagoya University, Japan

10:30 ~ 10:40 Break

Chair: Kazushi Kinbara (Tokyo Institute of Technology), Akihiro Kishimura (Kyushu University)

10:40 ~ 11:00

O-13 Self-oscillatory motion of molecular assembly with self-organization in a non-equilibrium steady state
Yoshiyuki Kageyama
Hokkaido University, Japan (Young investigator)

11:00 ~ 11:40

O-14 Designing and building conformationally responsive membrane-bound biomimetic receptors
Jonathan Clayden
University of Bristol, UK

11:40 ~ 12:20

O-15 Versatile metal-ligand chromophoric building blocks - From simple discrete metal complexes to ensembles, conjugates and nano-assemblies for sensing, molecular imaging and bioassays
Vivian W.W. Yam
The University of Hong Kong, China

12:20 ~ 13:10 Lunch

13:10 ~ 14:40 Poster session

13:10 ~ 13:55 Even numbered
13:55 ~ 14:40 Odd numbered

14:40 ~ 17:50

Session 4: Chemistry for Cell Analysis and Regulation

Chair: Hirohide Saito (Kyoto University), Shinsuke Sando (The University of Tokyo)

14:40 ~ 15:20

O-16 Modular protein architectures for optical and chemical control of cell biology
Michael Z. Lin
Stanford University, USA

15:20 ~ 16:00

O-17 Optical control of the genome
Moritoshi Sato
The University of Tokyo, Japan

16:00 ~ 16:10 Break

Chair: Hiroshi Murakami (Nagoya University), Shinya Tsukiji (Nagoya Institute of Technology)

16:10 ~ 16:30

O-18 Chemical probes with fluorogenic switch for imaging modified protein and DNA
Yuichiro Hori
Osaka University, Japan (Young investigator)

16:30 ~ 17:10

O-19 Proteomic architecture mapping by Spot-ID in live cells
Hyun-Woo Rhee
UNIST, Korea

17:10 ~ 17:50

O-20 Reprogramming the genetic code
Jason W. Chin
MRC Laboratory of Molecular Biology, UK

18:00 ~ 19:30 Banquet at Restaurant KIHADA

Day 3 (Dec 16th)

9:00 ~ Registration

9:10 ~ 12:20

Session 5: New Structure and Function of Biomolecular Systems

Chair: Mitsuo Umetsu (Tohoku University), Takafumi Ueno (Tokyo Institute of Technology)

9:10 ~ 9:50

O-21 Protein self-assembly by chemical design

F. Akif Tezcan

UCSD, USA

9:50 ~ 10:30

O-22 Artificial metalloenzyme: A hybrid between an active metal complex and a protein having a unique cavity

Takashi Hayashi

Osaka University, Japan

10:30 ~ 10:40 Break

Chair: Nobutaka Fujieda (Osaka Prefecture University), Kenichi Niikura (Nippon Institute of Technology)

10:40 ~ 11:00

O-23 A color series of Fe(II)-selective fluorescent sensor based on *N*-oxide chemistry

Tasuku Hirayama

Gifu Pharmaceutical University, Japan (Young investigator)

11:00 ~ 11:40

O-24 Can we synthesize life in the lab?

Sijbren Otto

University of Groningen, the Netherlands

11:40 ~ 12:20

O-25 Bio-inspired nanotransporters for biomedical application

Kazunari Akiyoshi

Kyoto University, Japan

12:20 ~ 13:30 Lunch

13:30 ~ 16:40

Session 6: Physical and Quantitative Understanding of Cells at Molecular Level

Chair: Masayasu Taki (Nagoya University), Kenjiro Hanaoka (The University of Tokyo)

13:30 ~ 14:10

O-26 Electrophysiology, unplugged: Watching neurons in action

Evan W. Miller

UC Berkeley, USA

14:10 ~ 14:50

O-27 Mechanical lifetime of biomolecules

Jie Yan

National University of Singapore, Singapore

14:50 ~ 15:00 Break

Chair: Satoru Nagatoishi (The University of Tokyo), Daisuke Miyoshi (Konan University)

15:00 ~ 15:20

O-28 Understanding of intracellular multimolecular crowding from interaction between RNA and small molecule

Tamaki Endoh

Konan University, Japan (Young investigator)

15:20 ~ 16:00

O-29 Analysis of proteins in living mammalian cells with NMR spectroscopy

Hidehito Tochio

Kyoto University, Japan

16:00 ~ 16:40

O-30 Protein biophysics in living cells

Gary J. Pielak

University of North Carolina,Chapel Hill, USA

16:40 ~ 16:45 Closing remarks

Poster program

December 14:

13:30 ~ 14:15 Odd numbered

14:15 ~ 15:00 Even numbered

December 15:

13:10 ~ 13:55 Even numbered

13:55 ~ 14:40 Odd numbered

P-1 Ligand-direct chemistry for visualizing native AMPA-type glutamate receptors in live neurons

Shigeki Kiyonaka[1], Sho Wakayama[1], Itaru Hamachi[1,2]

[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, [2]CREST, JST

P-2 Naphthalene diimide carrying β-cyclodextrin aiming at a parallel tetraplex ligand

Shigeori Takenaka[1,2], Yuka Sato[1], Shinobu Sato[1,2]

[1]Department of Applied Chemistry, [2]Reserach Center for Bio-microsensing Technology

P-3 Protection from off-target ADCC by using peptide inhibitors

Takeshi Mori[1,2], Koichi Sasaki[1], Yoshiki Miyashita[2], Daisuke Asai[3], Minori Harada[2], Akihiro Kishimura[1,2], Yoshiki Katayama[1,2]

[1]Department of Applied Chemistry, [2]Graduate School of Systems Life Sciences, Kyushu University.

P-4 Electrochemical detection of methylation frequency based on electrochemical chip coupled with ferrocenylnaphthalene diimide

Shinobu Sato[1,2], Kazuya Haraguchi[3], Kazuhiro Tominaga[3], Shigoeri Takenaka[1,2]

[1]Department of Applied Chemistry, [2]Reserch Center for Bio-microensng Technology, Kyushu Institute of Technology, [3]Department of Science of Physical Functions, Division of Oral and Maxillofacial Surgery, Kyushu Dental University

P-5 Control over differentiation of a metastable supramolecular assembly

Kazunori Sugiyasu, Tomoya Fukui, Masayuki Takeuchi

Molecular Design & Function Group, National Institute for Materials Science

P-6 Macrocycles with hydrogen bonding sites in the cavity: Molecular recognition and catalysis

Tadashi Ema[1], Maki Yokoyama[1], Sagiri Watanabe[1], Sota Sasaki[1], Hiromi Ota[2], Kazuto Takaishi[1], Chihiro Maeda[1]

[1]Graduate School of Natural Science and Technology, Okayama University, [2]Advanced Science Research Center, Okayama University

P-7 Supramolecular complexes of transition metal complexes with monoclonal antibodies as asymmetric catalysts

Hiroyasu Yamaguchi, Keisuke Murata
Department of Macromolecular Science, Graduate School of Science, Osaka University

P-8 Chiral recognition of monoclonal antibodies for binaphthyl derivatives

Hiroyasu Yamaguchi[1], Takuma Adachi[1], Tomoki Odaka[1], Akira Harada[2,3]
[1]Department of Macromolecular Science, Graduate School of Science, Osaka University, [2]Project Research Center for Fundamental Sciences, Graduate School of Science, Osaka University, [3]JST-ImPACT

P-9 Spontaneous pseudorotaxane formation targeting RNA

Kazumitsu Onizuka[1], Jumpei Matsuyama[1], Takuya Miyashita[1], Yuuya Kawasaki[2], Kazunobu Igawa[2], Katsuhiko Tomooka[2], Fumi Nagatsugi[1]
[1]Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, [2]Institute for Materials Chemistry and Engineering and Department of Material and Molecular Sciences, Kyushu University

P-10 Study on functional biomolecule incorporation in complex coacervates using PEG-based block copolymers

Mikio Terauchi[1], Biplab KC[1], Takeshi Mori[2,3], Yoshiki Katayama[2-5], Akihiro Kishimura[2,4]
[1]Graduate School of System Life Sciences, [2]Department of Applied Chemistry, Faculty of Engineering, [3]Center for Future Chemistry, [4]Center for Molecular Systems, [5]Center for Advanced Medical Innovation, Kyushu University

P-11 Fluorescent colorimetric sensors for the diagnosis of methylmalonic aciduria with bis(amidopyridine)- substituted anthracenes

Junko Fujimoto, Riho Mabuchi, Moeno Okumura, Shoichiro Goto, Youtaro Honda, Hidekazu Miyaji
Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University

P-12 Development of novel G-quadruplex alkylating agents

Madoka Eurika Hazemi, Kazumitsu Onizuka, Tomohito Kobayashi, Akira Usami, Norihiro Sato, Fumi Nagatsugi
Institute of multidisciplinary research for Advanced Materials, Tohoku University

P-13 Retracted

P-14 Photo-controllable DNA strand displacement facilitated by chaperon polymer

Bohao Cheng[1], Hiromu Kashida[1], Naohiko Shimada[2], Atsushi Maruyama[2], Hiroyuki Asanuma[1]

[1]Department of Biomolecular Engineering, Graduate School of Engineering, Nagoya University, [2]School of life Science and Technology, Tokyo Institute of Technology

P-15 Allosteric regulation of DNAzyme activity by the formation of a Cu(II)-mediated artificial base pair

Takahiro Nakama, Yusuke Takezawa, Mitsuhiko Shionoya

Department of Chemistry, Graduate School of Science, The University of Tokyo

P-16 H_2O_2-responsive protein labeling for conditional proteomics

Hao Zhu[1], Tomonori Tamura[1], Itaru Hamachi[1,2]

[1]Graduate School of Engineering, Department of Synthetic Chemistry and Biological Chemistry, Kyoto University [2]Core Research for Evolutional Science and Technology (CREST), Japan Science and Technology Agency

P-17 Development of subtype-selective agonist for jasmonate co-receptor

Yousuke Takaoka[1,2], Mana Iwahashi[1], Hiroaki Saito[3], Yasuhiro Ishimaru[1], Syusuke Egoshi[1], Nobuki Kato[1], Minoru Ueda[1]

[1]Department of Chemistry, Tohoku University, [2]JST-PREST, [3]RIKEN

P-18 Supramolecular protein assemblies constructed by engineering of protein crystal lattices

Tien Khanh Nguyen, Hashiru Negishi, Satoshi Abe, Takafumi Ueno

Department of Life Science and Technology, Tokyo Institute of Technology

P-19 Acyclic artificial nucleic acid circuit for sensitive detection of RNA

Keiji Murayama, Ryuya Nagao, Hiroyuki Asanuma

Graduate School of Engineering, Nagoya University

P-20 Reduction-responsive guanine incorporated into oligonucleotides

Yukiko Hayakawa[1], Masahiro Kamimura[1], Aya Shibata[1,2], Yukio Kitade[2], Masato Ikeda[1,2,3,4]

[1]Department of Life Science and Chemistry, Graduate School of Natural Science and Technology, Gifu University, [2]Department of Chemistry and Biomolecular Science, Faculty of Engineering, Gifu University, [3]United Graduate School of Drug Discovery and Medical Information Sciences, Gifu University, [4]Center for Highly Advanced Integration of Nano and Life Sciences, Gifu University (G-CHAIN)

P-21 Development of novel method for reconstitution of P450BM3 in its full-length form

Keita Omura[1], Yuichiro Aiba[1], Osami Shoji[1,2], Hiroshi Sugimoto[2,3], Yoshitsugu Shiro[4], Yoshihito Watanabe[5]

[1]Department of Chemistry, Graduate School of Science, Nagoya University, [2]Core Research for Evolutional Science and Technology, Japan Science and Technology Agency, [3]RIKEN SPring-8 Center, [4]Guraduate School of Life Science, University of Hyogo, [5]Research Center for Materials Science, Nagoya University

P-22 Proteins responsive supramolecular hydrogels containing an enzyme activity switch

Hajime Shigemitsu[1], Keisuke Nakamura[2], Tomonobu Matsuzaki[2], Ryou Kubota[2], Itaru Hamachi[2]

[1]Department of Applied Chemistry, Graduate School of Engineering, Osaka University

[2]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University

P-23 X-ray crystallographic observation of gold sub-nanocluster nucleation within a crystalline protein cage

Basudev Maity, Satoshi Abe, Takafumi Ueno

School of Life Science and Technology, Tokyo Institute of Technology

P-24 Ligand-directed *N*-acyl-*N*-alkyl sulfonamide chemistry: Characterization of reaction kinetics and its application to a covalent inhibitor

Tsuyoshi Ueda[1], Taiki Goto[1], Tomonori Tamura[1], Itaru Hamachi[1,2]

[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University. [2]CREST (Core Research for Evolutional Science and Technology), JST.

P-25 Elucidating the highly enantiodifferentiating site of human serum albumin for bio-supramolecular photo-cyclodimerization of 2-anthracenecarboxylate by using xenon as a site-specific inhibitor/quencher

Masaki Nishijima[1], Tamara Pace[2], Tadashi Mori[3], Cornelia Bohne[2], Takehiko Wada[4], Yoshihisa Inoue[3]

[1]Office for Industry-University Co-creation and [3]Department of Applied Chemistry, Osaka University, [2]University of Victoria, [4]Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

P-26 Self-assembled artificial viral capsids decorated with proteins

Kazunori Matsuura, Takahide Honjo, Junpei Ota, Hiroshi Inaba

Department of Chemstry and Biotechnology, Graduate School of Engineering, Tottori University

P-27 Synthesis and metalation of bromine-terminated acyclic oligo-pyrrolic ligands

Masato Imafuku, Yutaka Nishigaichi, Masaaki Suzuki

Interdiscipilinary Graduate School of Science and Engineering, Shimane University

P-28 Development of quantitative detection method for acrolein based on [4+4] cycloaddition reaction of conjugated imine

Hiroya Tsuchida[1], Atsushi Shimoyama[1], Kazuya Kabayama[1], Katsunori Tanaka[2], Koichi Fukase[1]

[1]Department of Chemistry, Graduate School of Science, Osaka University, [2]RIKEN

P-29 Metal-mediated stabilization and structural induction of bipyridine-modified DNA three-way junction structures

Yusuke Takezawa[1], Shuhei Yoneda[1], Shiori Sakakibara[1], Takahiro Nakama[1], Jean-Louis Duprey[1], Mitsuhiko Shionoya[1]

[1]Department of Chemistry, Graduate School of Science, The University of Tokyo

P-30 NMR characterization of cytochrome *c* membrane-binding site using cardiolipin-containing bicelles

Satoshi Nagao, Hisashi Kobayashi, Shun Hirota

Graduate School of Materials Science, Nara Institute of Science and Technology

P-31 Synthesis and functional study of self-adjuvanting anti-HER2 cancer vaccines

Qi Feng[1], Kazuya Kabayama[1], Yoshiyuki Manabe[1], Asuka Miyamoto[2], Yoshie Kametani[2], Koichi Fukase[1]

[1]Graduate School of Science, Osaka University, [2]School of Medicine, Tokai University

P-32 The development of small molecules binding to the hairpin RNA structure

Hirotaka Murase, Fumi Nagatsugi

Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

P-33 Construction of heme protein oligomers by 3D domain swapping

Shun Hirota[1], Satoshi Nagao[1], Masaru Yamanaka[1], Yoshiki Higuchi[2]

[1]Graduate School of Materials Science, Nara Institute of Science and Technology, [2]Department of Picobiology, Graduate School of Life Science, University of Hyogo

P-34 Peptide ligation of 5 fragments in one pot using palladium complex

Naoki Kamo[1], Gosuke Hayashi[1], Akimitsu Okamoto[1,2]

[1]Department of Chemistry and Biotechnology, The University of Tokyo, [2]Research Center for Advanced Science and Technology, The University of Tokyo

P-35 Discovery of inhibitors targeting homophilic dimerization of P-cadherin by a biophysical approach

Akinobu Senoo[1], Takumi Tashima[1], Shota Kudo[1], Satoru Nagatoishi[1,2], Kouhei Tsumoto[1,2]

[1]School of Engineering, The University of Tokyo, [2]The Institute of Medical Science, The University of Tokyo

P-36 P450BM3-catalyzing whole-cell biotransformation of benzene to phenol enhanced by decoy molecules

Masayuki Karasawa[1], Sota Yanagisawa[1], Osami Shoji[1,2], Yoshihito Watanabe[3]
[1]Department of Chemistry, Graduate School of Science, Nagoya University, [2]CREST, Japan Science and Technology, [3]Research Center for Materials Science, Nagoya University

P-37 Design of in vivo protein crystals for the development of biohybrid materials

Satoshi Abe, Takafumi Ueno
School of Life Science and Technology, Tokyo Insitute of Technology

P-38 Affinity-guided oxime chemistry for selective protein labeling in brain slices

Kazuma Amaike[1], Zhining Song[1], Shin Lee[1], Tomonori Tamura[1], Itaru Hamachi[1,2]
[1]Graduate School of Engineering, Kyoto University, [2]JST CREST

P-39 Super-photostable fluorescent probes for lipid droplets imaging

Keiji Kajiwara[1], Masayasu Taki[2,3], Yoshikatsu Sato[2], Shigehiro Yamaguchi[1,2]
[1]Department of Chemistry, Graduate School of Science, Nagoya University, [2]Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University, [3]JST PRESTO

P-40 Ligand directed acyl imidazole chemistry for drug assay of AMPA-type glutamate receptor

Seiji Sakamoto[1], Sho Wakayama[1], Shigeki Kiyonaka[1], Itaru Hamachi[1,2]
[1]Graduate School of Engineering, Kyoto University, [2]JST CREST

P-41 Novel macropinocytosis-inducing intracellular delivery peptide and its cell-surface interaction

Jan Vincent V. Arafiles, Kenichi Kawano, Shiroh Futaki
Institute for Chemical Research, Kyoto University

P-42 Alzheimer's disease: Oxidized derivatives of cholesterol and glycosyl chains as risk factors

Neha Sharma, KeangOk Baek, Naofumi Shimokawa, Masahiro Takagi
School of Materials Science, Japan Advanced Institute of Science and Technology

P-43 Physicochemical analysis of antigen-antibody interaction associated with charge exchange of amino acids

Kouhei Yoshida[1], Masato Kiyoshi[2], Daisuke Kuroda[1], Makoto Nakakido[1], Satoru Nagatoishi[2], Shinji Soga[3], Hiroki Shirai[3], Kouhei Tsumoto[1, 2]
[1]School of Engineering, The University of Tokyo, [2]Institute of Medical Science, The University of Tokyo, [3]Modality Research Labs. Astellas Pharma Inc.

P-44 Chemical synthesis of digalactosyl diacylglycerols for investigation of biological functions

Junichiro Kishi[1], Emi Kashiwabara[1], Toshihiko Aiba[1,2], Shinsuke Inuki[1,3], Yukari Fujimoto[1]
[1]Graduate School of Science and Technology, Keio University, [2]Graduate School of Science, Osaka University, [3]Graduate School of Pharmaceutical Sciences, Kyoto University

P-45 Development of functionalized PEGylated polymer vesicles for overcoming the mucosal barrier

Atsushi Ogawa[1], Hengmin Tang[1] Takeshi Mori[1,2], Yoshiki Katayama[1,2,3,4], Akihiro Kishimura[1,3]
[1]Department of Applied Chemistry, Faculty of Engineering, Kyushu University, [2]Center for Future Chemistry, Kyushu University, [3]Center for Molecular System, Kyushu University, [4]Center for Advanced Medical Innovation, Kyushu University

P-46 Functional studies on the heme uptake protein complex PhuUV-T from *Pseudomonas aeruginosa*

Erika Sakakibara[1], Yuma Shisaka[1], Osami Shoji[1], Hiroshi Sugimoto[2], Yoshihito Watanabe[3]
[1]Department of Chemistry, Graduate School of Science, Nagoya University, [2]RIKEN Spring-8 Center Harima Institute, [3]Research Center for Materials Science, Nagoya University

P-47 Non-canonical DNA structures control DNA replication by topology-dependent manner

Shuntaro Takahashi[1], John A. Brazier[2], Naoki Sugimoto[1,3]
[1]Frontier Institute for Biomolecula Engineering Research (FIBER), Konan University, [2]Department of Pharmacy, Reading University, [3]Graduate School of Frontier Innovative Research in Science and Technology (FIRST), Konan University

P-48 Photo-regulation of SNA duplex stability by introducing modified nucleobases

Yuuhei Yamano, Keiji Murayama, Hiroyuki Asanuma
Department of Biomolecular Engineering, Graduate School of Engineering, Nagoya University

P-49 Development of a simple strategy to detect activities of N^6-methyladenosine regulatory enzymes

Miki Imanishi, Akiyo Suda, Shiroh Futaki
Institute for Chemical Research, Kyoto University

P-50 Synthetically useful variants of industrial lipases from *Burkholderia cepacia* and *Pseudomonas fluorescens*

Kazunori Yoshida[1,2], Masakazu Ono[2], Takahiro Yamamoto[2], Takashi Utsumi[2], Satoshi Koikeda[1], Tadashi Ema[2]

[1]Frontier Research Department, Gifu R & D Center, Amano Enzyme Inc., [2]Division of Applied Chemistry, Graduate School of Natural Science and Technology, Okayama University

P-51 Synthesis of novel glycerolipids and their evaluation of the signaling through C-type lectin receptor Mincle

Takanori Matsumaru[1,2], Risa Ikeno[2], Yusuke Shuchi[2], Atsushi Furukawa[2], Yukari Fujimoto[1], Katsumi Maenaka[2]

[1]Faculty of Science and Technology, Keio University, [2]Faculty of Pharmaceutical Sciences, Hokkaido University

P-52 Creation of ischemia-selective oligonucleotide therapeutics systems with intracellular condition-responsive Peptide Ribonucleic Acids (PRNAs): *Hemi-gapmer type chimeric PRNA derivatives for the effective and catalytic oligonucleotide therapeutics*

Masahito Inagaki[1], Daisuke Unabara[1], Yuri Fukuyo[1], Ryohei Uematsu[1], Yasuyuki Araki[1], Satoru Ishibashi[2], Takanori Yokota[2], Takehiko Wada[1]

[1]Institute of Multidisciplinary Research for Advanced Material (IMRAM), Tohoku University, [2]Department of Neurology and Neuroligical Science, Tokyo Medical and Dental University

P-53 Chemogenetic control of class A GPCRs using metal complex-agonist conjugates

Ryou Kubota[1], Takuma Iwasaka[1], Wataru Nomura[1], Kento Ojima[1], Shigeki Kiyonaka[1], Itaru Hamachi[1,2]

[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University. [2]JST CREST

P-54 Probing auxin signaling with synthetic auxin-engineered receptor pair

Ryotaro Yamada[1], Naoyuki Uchida[2], Koji Takahashi[1], Rie Iwasaki[2], Masahiko Yoshimura[1], Hua Zhang[2], Toshinori Kinoshita[1,2], Kenichiro Itami[1,2], Keiko U. Torii[2], Shinya Hagihara[1,3]

[1]Grad. Sch. Sci., Nagoya Univ., [2]WPI-ITbM, Nagoya Univ., [3]JST-PRESTO

P-55 Supramolecular hydrogel made of self-sorting double network with bidirectional tunable rheological property

Wataru Tanaka[1], Hajime Shigemitsu[1], Takahiro Fujisaku[1], Ryou Kubota[1], Saori Minami[2], Kenji Urayama[2], Itaru Hamachi[1, 3]

[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, [2]Department of Macromolecular Science and Engineering, Kyoto Institute of Technology, [3]Core Research for Evolutional Science and Technology (CREST), Japan Science and Technology Agency (JST)

P-56 Design, synthesis and anticancer activity of cyclometalated iridium(III) complexes containing cationic peptides on the 2-phenylpyridine ligands

Kenta Yokoi[1], Yosuke Hisamatsu[1], Kana Naito[1], Shin Aoki[1,2,3]

[1]Faculty of Pharmaceutical Sciences, Tokyo University of Science, [2]Division of Medical-Science-Engineering Cooperarion, Research Institute for Science and Technology, Tokyo University of Science, [3]Imaging Frontier Center, Research Institute for Science and Technology, Tokyo University of Science

P-57 Hybridization of amphiphilic zinc chlorophyll derivatives with light-harvesting complexes chlorosomes in green sulfur photosynthetic bacteria

Hayato Yamashita[1], Naoya Takahashi[1], Jiro Harada[2], Hitoshi Tamiaki[3], Yoshitaka Saga[1,4]

[1]Department of Chemistry, Kindai University, [2]Kurume University School of Medicine, [3]Graduate School of Life Sciences, Ritsumeikan University, [4]PRESTO, Japan Science and Technology Agency

P-58 Characterization of complexes between heme and G-quadruplex DNAs formed from human telomere-related sequences

Tomokazu Shibata[1], Kentaro Ochi[1], Haruka Araki[1], Yusaku Nakayama[1], Ryosuke Shinomiya[1], Sachiko Yanagisawa[2], Takashi Ogura[2], Hikaru Hemmi[3], Dipankar Sen[4], Yasuhiko Yamamoto[1]

[1]Department of Chemistry, University of Tsukuba, [2]Department of Life Science, Graduate School of Life Science, University of Hyogo, [3]Food Research Institute, National Agriculture and Food Research Organization [4]Department of Chemistry, Simon Fraser University

P-59 Characterization of peroxidase activities and structures of complexes between chemically modified hemes and all parallel G-quadruplex DNA formed from d(TTAGGG)

Ryosuke Shinomiya[1], Tomokazu Shibata[1], Sachiko Yanagisawa[2], Takashi Ogura[2], Akihiro Suzuki[3], Saburo Neya[4], Dipankar Sen[5], Yasuhiko Yamamoto[1]

[1]Department of Chemistry, University of Tsukuba, [2]Graduate School of Life Science, University of Hyogo, [3]Depertment of Materials Engineering, National Institute of Technology, Nagaoka College, [4]Department of Physical Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University, [5]Department of Chemistry, Simon Fraser University

P-60 Engineering of nested PUF proteins with 16 RNA-binding repeats for regulation of endogenous RNA

Kouki Shinoda, Miki Imanishi, Shiroh Futaki

Institute for Chemical Research, Kyoto University

P-61 Synthesis of disaccharide nucleosides utilizing the temporary protection of the 2',3'-*cis*-diol of ribonucleosides by a boronic ester

Hidehisa Someya[1], Taiki Itoh[1], Shin Aoki[1,2]

[1]Faculty of Pharmaceutical Sciences, Tokyo University of Science, [2]Imaging Frontier Center, Tokyo University of Science

P-62 Redesign of hemolytic peptides to antibody delivery agent by single glutamate substitution

Misao Akishiba[1], Toshihide Takeuchi[1], Yoshimasa Kawaguchi[1], Kentarou Sakamoto[1], Ikuhiko Nakase[2], Shiroh Futaki[1]

[1]Institute for Chemical Research, Kyoto University, [2]NanoSquare Reserch Institution, Osaka Prefecture University

P-63 Allosteric activation of metabotropic glutamate receptors by coordination-chemogenetics

Kento Ojima[1], Yukiko Michibata[1], Ryou Kubota[1], Shigeki Kiyonaka[1], Itaru Hamachi[1,2]

[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, [2]CREST,JST

P-64 Chlorophyll-*a* derivatives bearing carboxy groups stabilize DNA G-quadruplex structures

Yasunobu Nagano[1], Tamaki Endoh[2], Shin Ogasawara[1], Naoki Sugimoto[2,3], Hitoshi Tamiaki[1]

[1]Graduate School of Life Sciences, Ritsumeikan University, [2]FIBER and [3]FIRST, Konan University

P-65 Macropinocytosis induction and intracellular drug delivery using exosomes modified with arginine-rich peptides

Kosuke Noguchi[1,2], Ayako Aoki[1,2], Tomoka Takatani-Nakase[3], Ikuo Fujii[2], Shiroh Futaki[4], Ikuhiko Nakase[1]

[1]NanoSquare Research Institution, Osaka Prefecture University, [2]Graduate School of Science, Osaka Prefecture University, [3]School of Pharmacy and pharmaceutical Sciences, Mukogawa Women's University, [4]Institute for Chemical Research, Kyoto University

P-66 Lipid packing loosening plays a key role in the direct membrane translocation of octaarginine

Tomo Murayama, Kenichi Kawano, Shiroh Futaki

Institute for Chemical Research, Kyoto University

P-67 A far-red emitting fluorescent probe for cytosolic Ca^{2+} ion based on phospha-fluorescein scaffold

Hiroaki Ogasawara[1], Masayasu Taki[2,3], Yoshikatsu Sato[2], Shigehiro Yamaguchi[2]

[1]Graduate School of Science, Department of Chemistry, Nagoya University, [2]Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University, [3]JST-PRESTO

P-68 Synthesis and immunological evaluation of self-adjuvanting *N*-acetyl and *N*-propionyl clustered Sialyl-Tn conjugate as anticancer vaccine candidates

Tsung-che Chang[1], Yoshiyuki Manabe[1], Yukari Fujimoto[2], Shino Ohshima[3], Yoshie Kametani[3], Kazuya Kabayama[1], Yuka Nimura[1], Chun-Cheng Lin[4], Koichi Fukase[1]

[1]Graduate Schoole of Science, Osaka University, [2]Faculty of Science and Technology, Keio University, [3]School of Medicine, Tokai University, [4]Department of Chemistry, National Tsing Hua University

P-69 Importance of net hydrophobicity in cellular uptake of all-hydrocarbon stapled peptides

Koki Sakagami, Kenichi Kawano, Shiroh Futaki

Institute for Chemical Research, Kyoto University

P-70 Bond distances in the intact Mn4CaO5-cluster of oxygen-evolving photosystem II at 1.62 Å resolution

Keisuke Kawakami[1], Naoto Inohara[2], Nobuo Kamiya[1,2]

[1]The OCU Advanced Research Institute for Natural Science & Technology (OCARINA), Osaka City University, [2]Graduate School of Science, Osaka City University.

P-71 Elucidation of the activation/inactivation mechanism between the Ni-SI_r and Ni-SI_a states of [NiFe] hydrogenase utilizing Ni-SI_r-to-Ni-SI_a photoactivation

Hulin Tai[1,2], Liyang Xu[1], Koji Nishikawa[3], Yoshiki Higuchi[2,3], and Shun Hirota[1,2]

[1]Grad. Sch. Mater. Sci., NAIST, [2]CREST, JST, [3]Grad. Sch. Life Sci., Univ. Hyogo

P-72 Multi-block fibrous assembly of peptide amphiphiles based on intrinsic immiscibility

Rie Wakabayashi[1], Mutsuhiro Katsuya[1], Noriho Kamiya[1,2], Masahiro Goto[1,2]

[1]Department of Applied Chemistry, Kyushu University, [2]Center for Future Chemistry, Kyushu University

P-73 Discovery of germination inhibitor for parasitic plant *Striga*

Masahiko Yoshimura[1], Yuichiro Tsuchiya[2], Ayato Sato[2], Yoshikatsu Sato[2], Keiko Kuwata[2], Toshinori Kinoshita[1,2], Kenichiro Itami[1,2], Shinya Hagihara[1,3]

[1]Grad. Sch. Sci., Nagoya Univ. [2]WPI-ITbM, Nagoya Univ. [3]JST-PRESTO

P-74 Development of an activatable photoacoustic probe for hypochlorous acid

Takayuki Ikeno[1], Kenjiro Hanaoka[1], Yoshiaki Murayama[2], Hisashi Ode[2], Yasuteru Urano[1,3,4]

[1]Graduate School of Pharmaceutical Sciences, The University of Tokyo, [2]Olympus Corporation, [3]Graduate School of Medicine, The University of Tokyo, [4]AMED CREST.

P-75 Development of activatable fluorescent probes for carboxypeptidase and their application

Yugo Kuriki[1], Mako Kamiya[2,3], Hidemasa Kubo[1,4], Toru Komatsu[1], Tasuku Ueno[1], Suguru Yamashita[2], Norihiro Kokudo[2], Yasuteru Urano[1,2,5]

[1]Graduate School of Pharmaceutical Sciences, The University of Tokyo, [2]Graduate School of Medicine, The University of Tokyo, [3]JST PRESTO, [4]Division of Digestive Surgery, Department of Surgery, Kyoto Prefectural University of Medicine, [5]AMED CREST

P-76 Effect of chemical environment change by malignant alteration in cancer cells on transcript productions from G-rich template DNAs

Hisae Tateishi-Karimata[1], Keiko Kawauchi[2], Tatsuya Ohyama[1], Naoki Sugimoto[1,2]

[1]Frontier Institute for Biomolecular Engineering Research (FIBER), Konan University, [2]Graduate School of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University

P-77 A well-defined osmium-cupin complex: Hyperstable artificial Os-peroxygenase

Nobutaka Fujieda[1], Takumi Nakano[2], Haruna Ichihashi[2], Shinobu Itoh[2]

[1]Graduate School of Life and Environmental Science, Osaka Prefecture University, [2]Graduate School of Engineering, Osaka University

P-78 Nano-chemical tools for controlling dynamic assembly of cell membrane receptors

Ryosuke Ueki, Naoto Kanda, Shinsuke Sando

Department of Chemistry and Biotechnology, The University of Tokyo

P-79 A set of organelle-localizable reactive molecules for mitochondria and ER chemical proteomics

Alma Fujisawa[1], Tomonori Tamura[1], Yuki Yasueda[1], Shigeki Kiyonaka[1], Itaru Hamachi[1,2]

[1]Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University. [2]CREST (Core Research for Evolutional Science and Technology), JST.

P-80 Redox-responsive activation of lysine-specific demethylase 1 inhibitor peptide

Naoki Umezawa[1], Yuichi Amano[1], Shin Sato[2], Masaki Kikuchi[2], Hisami Watanabe[2], Takashi Umehara[2], Tsunehiko Higuchi[1]

[1]Graduate School of Pharmaceutical Sciences, Nagoya City University, [2]RIKEN Center for Life Science Technologies

P-81 Solid-phase synthesis of oligo-*N*-substituted peptides with chiral backbone substituents using reductive amination

Yasuhiro Fukuda, Jumpei Morimoto, Shinsuke Sando

Department of Chemistry and Biotechnology, Graduate school of engineering, The University of Tokyo

P-82 Self-assembling supramolecular nanostructure complexes constructed from protein nanobuilding blocks

Naoya Kobayashi[1], Naoya Kimura[1], Michael H. Hecht[2], Ryoichi Arai[1,3]

[1]Department of Applied Biology, Faculty of Textile Science and Technology, Shinshu University, [2]Department of Chemistry, Princeton University, [3]Department of Supramolecular Complexes, Research Center for Fungal and Microbial Dynamism, Shinshu University

P-83 DNA rotaxane and catenane inside a DNA nanostructure

Arivazhagan Rajendran[1], Seo-jeong Park[2], Eiji Nakata[1], Youngjoo Kwon[2], Takashi Morii[1]

[1]Institute of Advanced Energy, Kyoto University, [2]College of Pharmacy, Ewha Womans University

P-84 Assembly of multiple enzymes on a DNA scaffold

Thang Minh Nguyen, Eiji Nakata, Masayuki Saimura, Huyen Dinh, Takashi Morii

Institute of Advanced Energy, Kyoto University

P-85 Evaluating the mechanism of growth inhibition using hemoprotein HasA with artificial metal complexes

Yuma Shisaka[1], Osami Shoji[1], Hiromu Uehara[1], Ayaka Nakashima[1], Yusuke Iwai[1], Yoshihito Watanabe[2]

[1]Department of Chemistry, Graduate School of Science, Nagoya University (Japan), [2]Research Center for Materials Science, Nagoya University (Japan)

P-86 Development of activatable photophore for selective labeling of proteins in β-Galactosidase expressing cells

Taiki Inoue[1], Tasuku Ueno[1], Yasuteru Urano[1,2,3]

[1]Grad. Sch. Pharm. Sci. The Univ. Tokyo, [2]Grad. Sch. Med. The Univ. Tokyo, [3]AMED CREST

P-87 Ribosomal synthesis of a thioamide bond

Rumit Maini, Ryo Takatsuji, Yuki Goto, Hiroaki Suga

Department of Chemistry, Graduate School of Science, The University of Tokyo

P-88 In vitro biosynthesis system for peptides with diverse modified backbones

Yuki Goto, Yasuharu Kato, Hiroaki Suga

Department of Chemistry, Graduate School of Science, The University of Tokyo

P-89 Controlling protein localization in living cells with synthetic self-localizing ligand: The SLIPT system

Shinya Tsukiji[1,2,3], Akinobu Nakamura[4], Shunsuke Sawada[5], Choji Oki[3], Tatsuyuki Yoshii[2,6]

[1]Frontier Research Institute for Materials Science (FRIMS), Nagoya Institute of Technology, [2]Department of Life Science and Applied Chemistry, Nagoya Institute of Technology, [3]Department of Nanopharmaceutical Sciences, Nagoya Institute of Technology, [4]Department of Materials Science and Engineering, Nagoya Institute of Technology, [5]Department of Bioengineering, Nagaoka University of Technology, [6]PRESTO, JST

P-90 Engineering orthogonal SLIPT systems for dual control of signaling pathways in living cells

Tatsuyuki Yoshii[1,2], Akinobu Nakamura[3], Choji Oki[4], Satoko Fujinuma[5], Gembu Maryu[6], Michiyuki Matsuda[6], Kazuhiro Aoki[7], Shinya Tsukiji[1,4,8]

[1]Department of Life Science and Applied Chemistry, Nagoya Institute of Technology, [2]PRESTO, JST, [3]Department of Materials Science and Engineering, Nagoya Institute of Technology, [4]Department of Nanopharmaceutical Sciences, Nagoya Institute of Technology, [5]Department of Bioengineering, Nagaoka University of Technology, [6]Laboratory of Bioimaging and Cell Signaling, Graduate School of Biostudies, Kyoto University, [7]Okazaki Institute for Integrative Bioscience, National Institute of Natural Sciences, [8]Frontier Research Institute for Materials Science (FRIMS), Nagoya Institute of Technology

P-91 Development of cell nucleus mimicking system based on molecular crowding effects on DNA structures

Yu-ki Zouzumi[1], Takafumi Miyata[2], Naohiko Shimada[2], Atushi Maruyama[2], Naoki Sugimoto[1,3], Daisuke Miyoshi[1]

[1]Faculty of Frontiers of Innovative Research in Science and Technology (FIRST), Konan University, [2]Department of Biomolecular Engineering, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, [3]Frontier Institute for Biomolecular Engineering Research (FIBER), Konan University

P-92 Development of fluorogenic hybrid probes utilizing TALE/ZF and PYP-labelling technology for detection of genome sequence

Maho Umeno[1], Yuichiro Hori[1,2], Ayuko Nishida[1], Shogo Tsuji[3], Miki Imanishi[3], Shiroh Futaki[3], Kazuya Kikuchi[1,2]

[1]Graduate School of Engineering, Osaka University, [2]Immunology Frontier Research Center, Osaka University, [3]Institute for Chemical Research, Kyoto University

P-93 Development of enzymomics approach to search for disease-related alternation of enzymatic functions

Toru Komatsu[1], Jun Onagi[1], Yuki Ichihashi[1], Tetsuo Nagano[3], Yasuteru Urano[1,2,4]

[1]Graduate School of Pharmaceutical Sciences, [2]Graduate School of Medicine, [3]Drug Discovery Initiative, The University of Tokyo, [4]AMED-CREST

P-94 Intracellular protein-labeling probes for multicolor single-molecule imaging in living cells

Yukio Sakai[1], Ryota Sato[1], Jun Kozuka[2], Yutaro Kumagai[3], Akimasa Yoshimura[1], Masafumi Minoshima[1], Shin Mizukami[4] , Kazuya Kikuchi[1,3]

[1]Graduate School of Engineering, Osaka University, [2]RIKEN Quantitative Biology Center, [3]Immunology Frontier Research Center, Osaka University, [4]Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

P-95 Oral administration of reactive adaptor ligands for *in vivo* reprogramming of endogenous antibodies

Masanobu Nagano[1], Nancy Callirro[2], Nobumasa Otsubo[2], Wataru Hakamata[2], Hitoshi Ban[2], Roberta P. Fuller[2], Nasir Bashiruddin[1], Carlos F. Barbas, III[2]

[1]Department of Chemistry, Graduate School of Science, The University of Tokyo, [2]The Skaggs Institute for Chemical Biology and the department of Chemistry and Biology, The Scripps Research Insitute

P-96 Microfluidic preparation of cell membrane sheets for *in vitro* analyses of the cytoplasmic face

Satoshi Yamaguchi[1], Shin Izuta[2], Ryuji Misawa[2], Akimitsu Okamoto[1,2]

[1]RCAST, The University of Tokyo, [2]Graduate School of Engineering, The University of Tokyo

P-97 Photo-cleavable PEG-lipids for light-guided cell release from single-cell array in a microfluidic system

Natalia T. Jarzębska[1], Satoshi Yamaguchi[2], Shin Izuta[1] Akimitsu Okamoto[1,2]

[1]Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, [2]Research Center for Advanced Science and Technology,The University of Tokyo

P-98 Photo-responsive microwells for image-based single-cell sorting

Tsuyoshi Hosogane[1], Satoshi Yamaguchi[2], Risa Takagi[1], Shouichi Sakakibara[3], Kazuhito Tabata[1], Hiroyuki Noji[1], Akimitsu Okamoto[1,2]

[1]Graduate School of Engineering, The University of Tokyo, [2]RCAST, The University of Tokyo, [3]ISIR, Osaka University

P-99 Development of OFF-ON-OFF fluorescent probes for detecting protein degradation

Chiawei Yu[1], Yuichiro Hori[1,2], Kohei Yamasaki[1], Kazuya Kikuchi[1,2]

[1]Graduate School of Engineering, Osaka University, [2]Immuonology Frontier Research Center, Osaka University

P-100 Development of pathway-oriented screening system and discovering glycolysis enzyme inhibitors

Kouichi Yanagi[1], Toru Komatsu[1], Hirotatsu Kojima[4], Takayoshi Okabe[4], Tetsuo Nagano[4] Yasuteru Urano[1,2,3]

[1]Graduate School of Pharmaceutical Sciences, The University of Tokyo, [2]Graduate School of Medicine, The University of Tokyo, [3]AMED CREST, [4]Drug Discovery Initiative

P-101 Ribosomal synthesis of peptides containing various β-amino acids

Tomoshige Fujino[1], Yuki Goto[2], Hiroaki Suga[2], Hiroshi Murakami[1]

[1]Department of Biomolecular Engineering, Graduate School of Engineering, Nagoya University [2]Department of Chemistry, Graduate School of Science, The University of Tokyo

P-102 Improved TRAP display for high-speed selection of antibodies from trillions of candidates

Taishi Kondo, Keigo Ishizaki, Tomoshige Fujino, Hiroshi Murakami

Department of Biomolecular Engineering, Graduate School of Engineering, Nagoya University

P-103 Nucleic acid electrochemical sensor amplified with DNA circuit

Ryo Kuramoto, Yusuke Kitamura, Yousuke Katsuda, Toshihiro Ihara

Faculty of Advanced Science and Technology, Kumamoto University

P-104 Tubulation of liposomes *via* the interaction of supramolecular nanofibers

Kouta Sugikawa[1], Yutaro Takamatsu[1], Kazuma Yasuhara[2], Atushi Ikeda[1]

[1]Graduate School of Engineering, Hiroshima University, [2]Graduate School of Materials Science, Nara Institute of Science and Technology

P-105 miRNA-responsive ON switch using non-canonical mRNA structure

Yoshihiko Fujita, Karin Hayashi, Hirohide Saito

Center for iPS Cell Research and Application, Kyoto University