

POSTER PROGRAM

SESSION I – PROTEIN INTERACTION

- P1 HYBRID GGTASE-I INHIBITORS TARGETING BOTH INTERIOR AND EXTERIOR PROTEIN SURFACES**
Junko Ohkanda^{1*}, Shinnosuke Machida¹, Nobuo Kato¹, and Kazuo Harada²
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2 Tokyo Gakugei University, Koganei, Tokyo, Japan
- P2 DESIGN OF PEPTIDES CAPABLE OF FORMING AMYLOID-LIKE FIBRILS WITH AMYLOID-BETA PEPTIDE 1-42**
Hisakazu Mihara^{*}, Junichi Sato, Hideo Oshima, Sachiko Matsumura, and Tsuyoshi Takahashi
Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, 4259-B40 Nagatsuta-cho, Midori-ku, Yokohama 226-8501, Japan
- P3 DIRECTED EVOLUTION OF BINDING PEPTIDES FOR G-CSF RECEPTOR**
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- P4 COLORIMETRIC PROTEIN KINASE ASSAYS IN A DIRECT AND HOMOGENOUS MANNER**
Kin-ya Tomizaki and Hisakazu Mihara^{*}
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- P5 DETECTION OF PROTEIN INTERACTIONS BY ANOMALOUS REFLECTION (AR) OF GOLD**
Kin-ya Tomizaki¹, Amir Syahir¹, Sinya Watanabe¹, Kotaro Kajikawa², and Hisakazu Mihara^{1*}
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- P6 STABLE HELICAL STRUCTURES IN SHORT PEPTIDES BRIDGED BY CROSS-LINKING AGENTS WITH VARIOUS RIGIDITY AND LENGTH**
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- P7 OLIGO-ASP TAG/ZN(II)-COMPLEX PROBE AS A NEW PAIR FOR LABELING AND FLUORESCENCE IMAGING OF PROTEINS**
Akio Ojida, Kei Honda, Daisuke Shinmi, Shigeki Kiyonaka, Yasuo Mori, and Itaru Hamachi^{*}
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P8 CONSTRUCTION OF FLUORESCENT SACCHARIDE-BIOSENSORS TOWARD SACCHARIDE IMAGING

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P9 HYBRID MATERIAL OF BIOMIMETIC POLYMER GEL AND GOLD NANOPARTICLES FOR SENSING CATECHOL AMINES

Jun Matsui^{1,2*}, Kensuke Akamatsu^{1,2}, Daisuke Miyoshi¹, Hidemi Nawafune^{1,2}, Katsuyuki Tamaki², and Naoki Sugimoto^{1,2*}

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P10 CONTROLLING THERMAL STABILITY OF DNA DUPLEX IMMOBILIZED ON GOLD SUBSTRATE

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P11 ROLE OF CYS111 IN STRUCTURAL STABILITY OF HUMAN COPPER/ZINC-SUPEROXIDE DISMUTASE

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SESSION II –FUNCTIONAL DNA / RNA

P12 EVOLUTION OF FLEXIZYME FOR REPROGRAMMING THE GENETIC CODE

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P13 INFLUENCE OF COSOLUTE STRUCTURE ON THE THERMAL STABILITY OF HOOGSTEEN BASE PAIRS IN DNA TRIPLEX UNDER MOLECULAR CROWDING CONDITIONS

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- P14 SCREENING OF CATALYTIC MODIFIED DNA MOLECULES FROM HISTIDINE-MODIFIED DNA LIBRARY**
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- P15 PHOTOREACTION AT 5'-(G/C)AA^{BR}UT-3' SEQUENCE IN DUPLEX DNA: EFFICIENT GENERATION OF 2'-DEOXYURIDIN-5-YL BY ELECTRON TRANSFER**
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- P16 PHOTOCHEMICAL LIGATION BETWEEN ANTHRACENE-DNA CONJUGATES**
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- P17 COLORIMETRIC ALLELE TYPING THROUGH COOPERATIVE COMPLEXATION BETWEEN DNA CONJUGATES AND LANTHANIDE IONS**
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- P18 IDENTIFICATION OF ANTISENSE RNA STEM-LOOPS THAT INHIBIT RNA-PROTEIN INTERACTIONS USING A BACTERIAL REPORTER SYSTEM**
Akiko Yano and Kazuo Harada*
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- P19 RECOGNITION OF A FLIPPED NUCLEOBASE BY SMALL PEPTIDES**
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- P20 NUCLEOTIDE DERIVATIVES FORMING WATSON-CRICK BASE PAIR AND BASE FLIPPING CONFORMATIONS**
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P21 SYNTHESIS OF PEPTIDE RIBONUCLEIC ACID (PRNA)-DNA CHIMERA AND CONTROL OF RNASE H ACTIVITY BY EXTERNAL FACTOR

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P22 SYNTHESIS AND FLUORESCENCE PROPERTIES OF OLIGODEOXYRIBONUCLEOTIDE-FLUOROPHORE CONJUGATES FOR DETECTION OF SNPS

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P23 THE EFFECT OF COSOLUTES ON THE THERMODYNAMIC AND KINETIC PROPERTIES OF DNA DUPLEX FORMATION

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P24 LARGE ENHANCEMENT OF THE HAMMERHEAD RIBOZYME ACTIVITY BY MOLECULAR CROWDING

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P25 EVALUATION OF ALTERNATING DUPLEX-TRIPLEX CONVERSION EFFECT ON THE HOLE TRANSPORT THROUGH DNA IMMOBILIZED ON A GOLD ELECTRODE

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P26 WATER MOLECULES REGULATE STRUCTURE AND THERMODYNAMICS OF DNA

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P27 CROWDING CONDITIONS ENHANCE THE STABILITY OF G-QUADRUPLEX OF LONG TELOMERIC DNAs

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SESSION III – METALS IN CHEMICAL BIOLOGY

P28 ARTIFICIAL METALLOPROTEINS WITH RUTHENIUM TRIS(BIPYRIDYL) COMPLEX AS THE CORE

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SESSION IV – CELL FUNCTION OF MACROMOLECULES

P29 SUGAR-CONTROLLED INTRACELLULAR TRAFFICKING OF DISACCHARIDE-MODIFIED POLYPLEXES

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P30 CONSTRUCTION OF AN OLIGOSACCHARIDE LIBRARY USING CELLS(35) BIOCMBINATORIAL SYNTHESIS OF OLIGOSACCHARIDES, DEVELOPMENT OF GLYCAN ARRAY, AND GLYCOME ANALYSIS

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P31 DIRECT AND RAPID CYTOSOLIC DELIVERY USING ARGININE-RICH PEPTIDES IN THE PRESENCE OF COUNTERANIONS

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P32 IDENTIFICATION OF PEPTIDES THAT INHIBIT INFLUENZA VIRUS INFECTION

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P33 IMMUNOSTIMULATING PEPTIDOGLYCAN FRAGMENTS RECOGNIZED BY CELLULAR RECEPTORS

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P34 SYNTHETIC AND BIOLOGICAL STUDIES OF LIPOPOLYSACCHARIDE, A MAJOR STIMULATOR OF INNATE IMMUNITY

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P35 DISCOVERY OF A NOVEL ACTIVATOR FOR RYANODINE RECEPTOR

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SESSION V – NANOBIO TECHNOLOGY AND TECHNOLOGY INNOVATION IN CHEMISTRY

P36 ARTIFICIAL PEPTIDE-NANOSPHERES SELF-ASSEMBLED FROM TRIGONAL β -SHEET PEPTIDE CONJUGATES

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P37 NANOPORE SEQUENCING OF POLYNUCLEOTIDES ASSISTED BY A CIRCULAR ELECTRIC FIELD

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P38 ENZYMATIC PROTEIN IMMOBILIZATION DIRECTING TO A SPECIFIC PEPTIDE TAG FOR TRANSGLUTAMINASE CATALYSIS

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- P39 DESIGN OF CATIONIC NANOGEL AS A PROTEIN CARRIER**
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- P40 ELECTROCHEMICAL ASSAY OF NUCLEASE IN WATER BY USING FERROCEMYLOLIGONUCLEOTIDE IMMOBILIZED ON AN ELECTRODE**
Katsuya Fujita¹, Shinobu Sato², Masanori Kanazawa³, Takahiko Nojima⁴, and Shigeori Takenaka^{1*}
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- P41 ELECTROCHEMICAL DETECTION OF METHYLATED GENE BY USING FERROCENYLNAPHTHALENE DIIMIDE**
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- P42 DEVELOPMENT OF A SUPRAMOLECULAR NANO-FIBER AS A DEVICE FOR MOLECULAR RECOGNITION**
Shun-ichi Tamaru* and Itaru Hamachi
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- P43 EXCITATION RATIO METRIC CHEMOSENSOR FOR PHOSPHATE ANION DERIVATIVES BASED ON ANION-INDUCED REARRANGEMENT OF COORDINATION CHEMISTRY**
Hiroshi Nonaka, Yoshifumi Miyahara, Akio Ojida, and Itaru Hamachi*
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- P44 SYNTHETIC RECEPTORS AS A DESIGNER CARRIER TO CATCH, TRANSPORT AND RELEASE PHOSPHATE DERIVATIVES INTO LIVING CELL**
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- P45 CONFORMATIONAL CHANGES DURING APOPLASTOCYANIN FOLDING OBSERVED BY PHOTOCLEAVABLE MODIFICATION AND TRANSIENT GRATING**
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- P46 RATIONAL DEVELOPMENT OF NOVEL FLUORESCENCE PROBES BASED ON PHOTOINDUCED ELECTRON TRANSFER**
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- P47 EXPANSION OF UNNATURAL SUBSTRATES ACCEPTABLE BY THE E.COLI RIBOSOME**
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- P48 ARTIFICIAL PEPTIDE-NANOSPHERES SELF-ASSEMBLED FROM TRIGONA β -SHEET PEPTIDE CONJUGATES**
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- P49 FUNCTIONAL DESIGN OF AMPHIPHILIC DENDRIMER-BASED 2D-ARRAY**
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