P001 **Thermodynamic measurement of the structural fluctuation in the signaling state of phototropin**

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P002 **Transient fluctuation of phototropin LOV2 domain**

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P003 **Conformational dynamics of the N- and C-terminal helical regions of the phototropin1-LOV2 domain**

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P004 **Time-resolved study of the interdomain signal transfer of blue light sensor protein YtvA**

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P005 **Kinetic measurement of photo-induced dissociation and conformational change in the C-termianl flanking region of UVR8**

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P006 **Thermodynamic properties and volume fluctuations of cytochrome c in dioxane aqueous solutions**

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P007 **Heat capacity of monoacylglycerol-cholesterol-water systems**

*Yasuhisa Yamamura; Takuya Adachi; Mafumi Hishida; Shigenori Nagatomo; Kazuya Saito

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P008 **Conformational equilibrium and activation mechanism of rhodopsin probed by single molecule measurements**

*Yasushi Imamoto[1]; Ryo Maeda[1]; Michio Hiroshima[2]; Yasushi Sako[2]; Yoshinori Shichida[1]

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P009 **Mechanical Unfolding Pathways of holo-myoglobin explored by AFM-based single molecule force spectroscopy**

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P010 **Microsecond-resolved tracking of the unfolded state of BdpA by a line confocal detection of single molecule fluorescence**

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P011 **Two-dimensional fluorescence correlation spectroscopy for observing fluctuation of biomolecules**

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P012 **Redox-dependent conformational dynamics of protein disulfide isomerase coupled with exposure of its substrate binding region**

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P013 **Giant Acceleration of diffusion in single molecule experiments**

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P014 **Pressure-induced chemical shifts as probes for conformational fluctuations in proteins**

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P015 **Solution stucture of the alternatively folded state of ubiquitin**

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P016 **Conformations, dynamics, and interactions of sugar chains as studied by NMR spectroscopy**

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P017 **Multiple Binding Modes in Molecular Recognition Process of GroEL as Studied by NMR Spectroscopy**

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P018 **Fluctuating and Remaining Structure in the Intrinsically Disordered Protein Monitored by**

NMR

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P019 **Water Model Tuning to Better Reproduce Rotational Diffusion and NMR Spectral Density of Protein**

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P020 **Relationship between polypeptides' amyloidogenicities and their dynamics**

*Kazumasa Sakurai[1]; Kotaro Yanagi[1]; Mahoshi Takeda[1]; Yuichi Yoshimura[1], Tsuyoshi Konuma[2], Young-Ho Lee[1], Kenji Sugase[2], Takahisa Ikegami[1], Hironobu Naiki[3], Yuji Goto[1]

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P021 **Distinguishing crystal-like amyloid fibrils and glass-like amorphous aggregates from their kinetics of formation**

*Yuichi Yoshimura[1]; Yuxi Lin[1]; Hisashi Yagi[1]; Young-Ho Lee[1]; Hiroki Kitayama[1]; Kazumasa Sakurai[1]; Masatomo So[1]; Hirotsugu Ogi[2]; Hironobu Naiki[3]; Yuji Goto[1]

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P022 **COOPERATIVE MOTION ANALYSES OF MULTI-SUBUNIT PROTEINS VISUALIZED BY X-RAY SINGLE MOLECULE TRACKING**

*Hiroshi Sekiguchi[1]; Yohei Yamamoto[2]; Mayuno Arita[2]; Yasuhito Suzuki[3]; Yuri Nishino[4]; Suzuko Kobayashi[5]; Kohei Ichiyanagi[3]; Tai Kubo[5]; Atsuo Miyazawa[4,6]; Masafumi Yohda[2]; Naoto Yagi[1]; Yuji C. Sasaki[3]

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P023 **Teraherz spectroscopy of proteins by synchrotron radiation at UVSOR**

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P024 **Equilibrium expanded non-native alpha-helix intermediate of hNck2 SH3 domain at acidic pH**

*Yoshitaka Matsumura[1]; Masaji Shinjo[1]; Tsutomu Matsui[2]; Kaoru Ichimura[1]; Jingxiang Liu[3]; Jianxing Song[3]; Hiroshi Kihara[4, 5]

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P025 **Potential derived charge for better description of protein sliding dynamics on DNA**

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P026 **ATP hydrolysis mechanism in kinesin studied by hybrid QM/MM metadynamics simulations**

Matthew J. McGrath[1], I-F. Will Kuo[2], Shigehiko Hayashi[1], and *Shoji Takada[1]

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P027 **Stability and dynamics of RNA virus(T=1) studied by coarse-grained simulations**

*Koji Ono; Naoto Hori; Shoji Takada

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P028 **Protein Specific Partial Charges by Ab-initio Fragment Molecular Orbital (FMO) Method for More Accurate Protein Simulations**

*Le Chang[1]; Takeshi Ishikawa[2,3]; Kazuo Kuwata[3]; Shoji Takada[1]

P029 **A Molecular Level Study of Selective Cation Capture by a Host-Guest Mechanism for 25,26,27,28-Tetramethoxycalix[4]Arene in $MClO_4$ Solution (M=Na, K)**

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P030 **α-helical mebrane protein folding simulations by replica-exchange Monte Carlo method**

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P031 **Optimized force-field parameters of main-chain torsion-energy terms for each amino acid**

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P032 **Statistical analysis of incipient relaxation process of photolyzed carbonmonoxy myoglobin by perturbation ensemble MD method**

*Masayoshi Takayanagi[1,2,3]; Masataka Nagaoka[2,3]

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P033 **Temperature and Hydration Dependence of Low-frequency Dynamics of Native and Destabilized Proteins Studied by Terahertz Time-domain Spectroscopy**

*Naoki Yamamoto[1]; Atsuo Tamura[2]; Keisuke Tominaga[1,2]

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P034 **Ion effects on liquid structure of water monitored by terahertz time-domain spectroscopy**

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P035 **Intermolecular interaction of myoglobin: A small angle X-ray scattering study**

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P036 **Relation among Fe-His bond, fluctuations of helices and oxygen affinity of hemoglobin in T-state and R-state**

*Shigenori Nagatomo[1]; Yukiko Ozeki[1]; Yasuhisa Yamamura[1]; Kazuya Saito[1]

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P037 **Possibility of Direct Interaction between Calcium Ion and the Carboxylate of the Heme in**

Horseradish Peroxidase

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P038 **Effect of hydration on protein dynamics**

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P039 **The role of the flexible loop in Staphylococcal nuclease on its catalytic activity**

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P040 **Roles of hydrogen bonds around chromophore in Photoactive Yellow Protein studied by OH-deficient cinnamic acid**

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P041 **Structural analysis of PYP-Phytochrome Related Protein during its photoreaction by using small angle X-ray scattering.**

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P042 **The comparison of fluorescent spectra between wild type staphylococcal nuclease and the mutants based on FRET**

*Emi Ohta[1]; Takuya Muto[1]; Yusuke Kishi[1]; Mariko Yamaguchi[1]; Kaori Shiraga[2]; Yoichi Yamazaki[1]; Hironari Kamikubo[1]; Takahiro Hohsaka[2]; Mikio Kataoka[1]

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P043 **Amyloid fibril inhibition mechanism of human calcitonin**

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Yamaguchi[1]; Mikio Kataoka[1]

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P044 **Fluorescence Properties of Chromophore-modified Photoactive Yellow Protein**

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P045 **Extraction of the structure elements from PYP**

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P046 **Analysis of interaction sites on the Photoactive Yellow Protein of *Rhodobacter capsulatus* with chimeric proteins**

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P047 **Protonation State of Arginine 52 near the Low Barrier Hydrogen Bond in Photoactive Yellow Protein**

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P048 **Functional regulation of FACT, a chromatin remodeling factor, mediated by the multiple phosphorylation to the intrinsically disordered regulatory element**

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P049 **Recognition mechanism of a TAR nucleic acid by HIV-1 Tat, an intrinsically disordered protein**

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P050 **Mechanism of coupled folding and binding of intrinsically disordered proteins**

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P051 **Fluctuation of the intrinsically disordered protein PQBP-1**

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P052 **Mechanistic Understanding of Multistep Assembly of DNA with Carbazole Derivative**

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P053 **Analysis of the dynamics in cyanobacterial clock proteins**

*Katsuaki Oyama; Syun Isayama; Kazuki Terauchi

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P054 **Fluorescence and bioluminescence analysis of proteins using nonnatural amino acid mutagenesis**

*Takahiro Hohsaka, Atsushi Yamaguchi, Kaori Shiraga, Takayoshi Watanabe

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P055 **Biophysical Analysis of Protein Aggregation Kinetics Based on a Monomer-Oligomer Model**

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P056 **Anti-tumor Effects of Cationic Hybrid Liposomes against Colon Carcinoma Along with Apoptosis**

*Motoki Hino; Hideaki Ichihara; Yoko Matsumoto; Ryuichi Ueoka

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P057 **New Type of Hybrid Liposomes Composed of Dimyristoylphosphatidylcholine and Trehalose Surfactants for the Inhibition of Tumor Growth**

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P058 **Inhibitory Effects of Hybrid Liposomes on the Growth of Synoviocyte Causing Rheumatoid Arthritis in vivo**

*Hideaki Ichihara; Motoki Hino; Yoko Matsumoto; Ryuichi Ueoka

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P059 **Cell-cycle Regulation by Hybrid Liposomes for Lung Tumor Cells**

*Yuji Komizu; Mamiko Yukihara; Yoko Matsumoto; Ryuichi Ueoka

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P060 **Membrane-targeted Nanotherapy with Hybrid Liposomes for Cancer Cells Leading to Apoptosis**

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P061 **Hybrid Liposomes Inhibit Tumor Growth and Lung Metastasis of Murine Osteosarcoma Cells**

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P062 **HAMLET and BAMLET induces cell death of Primary Effusion Lymphoma**

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P063 **HYBRID LIPOSOMES PROMOTE HIV-1 INFECTION BY INCREASING THE CELL MEMBRANE FLUIDITY**

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P064 **Effect of Cations on G-quadruplex Structure and Fluctuation of Telomeric DNA**

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P065 **A pivotal role of CerS6 on the ceramide metabolic pathways and HL-induced apoptosis in lung cancer**

Motoshi Suzuki

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P066 **Selective reconstitution of bacteriorhodopsin in a binary liposome composed of DMPC and its partially fluorinated analog**

*Masashi Sonoyama[1]; Masaru Yoshino[1]; Takashi Kikukawa[2]; Hiroshi Takahashi[1]; Toshiyuki Takagi[3]; Kenji Kanayama[1]; Hideki Amii[1]; Teruhiko Baba[3]; Toshiyuki Kanamori[3]

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P067 **Lipid Transfer Activity Evaluation of Sec14 by Time-Resolved Neutron Scattering**

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P068 **Molecular Fluctuation of Lipids in Cell Sized Vesicles as Studied by NMR**

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P069 **Compartmentalization by confinement in multi-lamellar vesicles**

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P070 **Functional Analysis of Polyamine-Lipid/DNA Complex (Lipoplex) for Gene Delivery: Relationship between Metamorphosis of Lipoplex and its Function**

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P071 **Structure formation in binary surfactant mixture**

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P072 **In situ observation of two dimensional domain formation of F-BAR domain proteins on supported lipid bilayers**

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P073 **Membrane lipid-sensitive gating of the KcsA potassium channel**

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P074 **Structural investigation of voltage-sensing mechanism of voltage-dependent K^+ channels**

Hitomi Harada[1]; *Masanori Osawa[1]; Shin-ichiro Ozawa[1]; Tomomi Kimura[1]; Tomohiro Nozaki[1]; Ichio Shimada[1,2]

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P075 **Binding Modes of Cations in The KCSA Potassium Channel Proved 3D-RISM Theory**

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P076 **6N-D water and small molecule distributions from 3D-RISM**

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P077 **Effects of Macromolecular Crowding on the Sequential Glycan Processing Pathway**

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P078 **OLIGOMERIZATION OF CYTOCHORME *C* AND MYOGLOBIN BY DOMAIN SWAPPING**

*Shun Hirota[1]; Yoko Hattori[1]; Satoshi Nagao[1]; Hisao Osuka[1,2]; Takuya Yamada[1]; Takeshi Uni[1]; Hirofumi Komori[2,3]; Yasuhito Shomura[2,3]; Hironari Kamikubo[1]; Mikio Kataoka[1]; Shigeru Negi[4]; Yukio Sugiura[4]; Kiyohiro Imai[5]; Yoshiki Higuchi[2,3]

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P079 **Protein fluctuation in monomer determines prion strain conformations**

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P080 **High-speed orientation imaging of gold nanorod to probe fluctuation of proteins**

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P081 **Rotation of F_1-ATPase under high pressure**

*Daichi Okuno[1]; Masayoshi Nishiyama[2]; Hiroyuki Noji[3]

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P082 **Chaperonin induces protein unfolding to change folding pathway**

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P083 **Development of anti-tumor complexes made from a protein in the molten globule state**

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P084 **HYDROGEN-DEUTERIUM (H/D) EXCHANGE STUDIES ON FREE GROES AND THE GROES-SR1-ADP CHAPERONIN COMPLEX**

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P085 **THERMODYNAMIC PARAMETERS ASSOCIATED WITH THE GroEL-GroES BINDING**

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P086 **Fluctuation-mediated regulation of the protein degradation by the proteasome**

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P087 **Dynamic Functional Regulation of MAP kinase p38α**

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P088 **DNA-Binding Property of the Novel DNA-Binding Domain STPR in FMBP-1 of the Silkworm Bombyx mori**

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P089 **Identification of α-Catenin Binding Site in Premolten Globule Type Intrinsically Disordered Protein, EspB from Enterohaemorrhagic E. coli**

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P090 **Conformational fluctuations affect the amyloidgenic propensity of immunoglobulin light chain variable domain: from thermodynamic stabilities of chimeric mutants**

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P091 **Conformational fluctuations affect the amyloidgenic propensity of immunoglobulin light chain variable domain: from kinetic folding/unfolding studies of chimeric mutants**

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P092 **Crucial role of conformational flexibility of proteins in enzymatic catalyses**

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P093 **Development of multipole electrostatic potential operator for QM/MM methods**

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P094 **Conformational Transition Pathway of Calmodulin N-terminal Domain Revealed by Biased Molecular Dynamics Simulations**

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P095 **Structural change and fluctuation in early intermediates of bovine rhodopsin**

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P096 **A theoretical study on the fluorescent state of enhanced green fluorescent protein**

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P097 **Protein structures and dynamics in the condensed phase: Hornet silk**

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P098 **The KcsA channel cytoplasmic domain effects on the inactivation gating**

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