Poster Presentations

P1 **Structural study of intrinsically disordered protein Hef, using SAXS, NMR, and MD simulation.**

Takashi Oda[1], Taiki Miyagi[1], Taro Tateoka[1], Tomotaka Oroguchi[2], Tsuyoshi Konuma[3], Kenji Sugase[3], Hiroshi Hashimoto[1], Yoshizumi Ishino[4], and Mamoru Sato[1].

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P2 **Elucidation of DNA-binding dynamics of the transcription factor Oct3/4 POU homeodomain**

Tsuyoshi Konuma[1], Erisa Harada[1], Kenji Sugase[1]

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P3 **The complex structure of PQBP1 and its target protein U5-15kD**

Obita Takayuki[1] · Serita Tomohito[1] · Kojima Rieko[1] · Okazawa Hitoshi[2] · Mineyuki Mizuguchi[1]

Faculty of Pharmaceutical Sciences, University of Toyama[1] · Medical Research Institute, Tokyo Medical and Dental University[2]

P4 **Single-molecule structural analysis of tumor suppressor p53 using scanning probe microscopy**

Seiya Takahashi, Yasuyuki Sainoo, Agato Murata, Tadahiro Komeda, Satoshi Takahashi, and Kiyoto Kamagata

Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

P5 **Single-molecule functional analysis of tumor suppressor p53**

Agato Murata, Satoshi Takahashi, and Kiyoto Kamagata

Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

P6 **Interaction between transcriptional activation domains of Sp1 and TAF4 examined by heteronuclear magnetic resonance.**

Emi Hibino[1], Jun Kuwahara[2], Katsumi Matsuzaki[1], Masaru Hoshino[1]

Kyoto University[1], Doshisha Women's University[2]

P7 **Molecular recognition between an aptamer and IDP that dirupts brain function**

Nagata Takashi[1], Mashima Tsukasa[1], Nishikawa Fumiko[2], Kamatari O. Yuji[3], Nishikawa Satoshi[2], Kuwata Kazuo[3], Katahira

Kyoto University[1], National Institute of Adcanced Industrial Science and Technology (AIST)[2], Gifu University[3]

P8 **Role of C-terminal negative charges and tyrosine residues in fibril formation of alpha-synuclein**

Yasushi Kawata, Yasutaka Izawa, Hiroshi Kameda, Kazuya Hirakawa, Hisashi Yagi, Kunihiro Hongo, Tomohiro Mizobata

Department of Chemistry and Biotechnology, Graduate School of Engineering, Tottori University, Tottori, Japan

P9 **A new approximation method for estimating SAXS profiles of fully unfolded proteins.**

Seki Yasutaka[1] · Nonaka Takamasa[1], Soda Kunitsugu[2]

Sch. of Pharm., Iwate Med. Univ.[1] · High Perform. Molec. Simula. Team, ASI, RIKEN[2]

P10 **Analysis on dynamical structure of intrinsically disordered protein Hef, using MD-SAXS method**

Tomotaka Oroguchi[1] · Takashi Oda[2], Hiroshi Hashimoto[2], Yoshizumi Ishino3, Mitsunori Ikeguchi[2], Mamoru Sato[2]

Keio University[1] · Yokohama City University[2] · Kyushu University[3]

P11 **Structural changes in an intrinsically disordered domain of EGFR investigated by single-molecule FRET measurement**

Kenji Okamoto, Yasushi Sako

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P12 **Dynamics of Denatured Protein under Physiological Condition**

Nakagawa Hiroshi[1], Joti Yasumasa[2], Yamamuro Osamu[3], Kataoka Mikio[1,2]

JAEA[1], JASRI[2], Univ.Tokyo[3],NAIST[4]

P13 **A general reguratory function of N-terminal intrinsically disordered regions of RecA/Rad51 recombinases in homologous DNA recombination**

Naoto Arai[1], Tsutomu Mikawa[2], Yoshinori Shingu[2] and Takehiko Shibata[2,3]

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P14 **Molecular Mechanism of the Recombination Mediator Activity of Rad52**

Kagawa Wataru[1] · Arai Naoto[2] · Saito Kengo[3] · Shusei Sugiyama[3] · Kurumizaka Hitoshi[3] · Shibata Takehiko[4]

Meisei University[1] · Nihon University[2] · Waseda University[3] · RIKEN Institute[4]

P15 **Regulation of the RNA binding activity of nucleophosmin/B23 by inter- and intra-molecular association between its intrinsically disordered regions**

Miharu Hisaoka · Kyosuke Nagata, Mitsuru Okuwaki

Faculty of Mecidine, University of Tsukuba

Poster Presentations

P16 **Intrinsically disordered regions essential for activator and repressor functions of Ume6**

Nobuyuki Morohashi[1], Erika Oshima[1], Ayako Oshima[1], Yuichi Ichikawa[2], Hitoshi Kurumizaka[2], Satoshi Fukuchi[3], Yoshifumi Nishimura[4], Mitsuhiro Shimizu[1]

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P17 **Yeast prion Sup35 as an intrinsically disordered protein**

Kosuke Saito[1] · Shigeko Kawai-Noma[1], Tatsuya Niwa[1], Hideki Taguchi[1]

Tokyo Institute of Technology[1]

P18 **Screening for human IDPs**

Makiha Fukuda, Shohei Kitano, Nobuhiro Hayashi, Yasunori Aizawa

Tokyo Institute of Technology

P19 **Structure and function of intrinsic disorder region of UHRF1.**

Kyohei Arita[1] · Kazuya Sugita[1], Shin Isogai[1], Motoko Unoki[2], Mariko Ariyoshi[3], Masahiro Shirakawa[1,4]

Kyoto University, Graduate School of Engineering[1] · Kyushu University, Medical Institute of Bioregulation[2], Kyoto University, ICeMS[3], CREST[4]

P20 **Critical Roles of a Metalloendopeptidase Nardilysin in Cold-induced Adaptive Thermogenesis**

Hiraoka Yoshinori[1], Matsuoka Tatsuhiko1, Ohno Mikiko1, Nakamura Kazuhiro2, Kimura Takeshi1, Kita Toru3, Nishi Eiichiro[1]

Department of Cardiovascular Medicine, Graduate School of Medicine, Kyoto University[1], Career-Path Promotion Unit for Young Life Scientists, Kyoto University2, Kobe City Medical Center General Hospital[3]

P21 **Expression and purification for protein crystallography of a DNA methylation regulatory protein.**

Teruya Nakamura[1], Go Imadome[1], Toru Nakano[2], Toshinobu Nakamura[3], Yuriko Yamagata[1]

Kumamoto University[1] · Osaka University[2], Nagahama Institute of Bio-Science and Technology[3]

P22 **Structural and functional analyses of the flexible region of autophagy-essential E2, Atg3**

Kazuaki Matoba, Yuko Fujioka, Nobuo N. Noda

Institute of Microbial Chemistry

P23 **Analysis of the capability of peptidyl prolyl isomerases to inhibit tau peptides from aggregating**

Teikichi Ikura, Nobutoshi Ito

Tokyo Medical and Dental University

P24 **Promotion of purine motif triplex formation by an intrinsically disordered region of budding yeast triplex binding protein Stm1: Application to the development of antigene strategy**

Hidetaka Torigoe · Norihiro Sato, Kikue Mase, Kiyomi Sasaki

Tokyo University of Science

P25 **Effects of metastable structures on intrinsic disorder of protein**

Katsuyoshi Matsuhita[1,2], Macoto Kikuchi[1,3,4]

Cybermedia Center, Osaka University[1], Institute for Protein Research, Osaka University[2], Graduate School of Science, Osaka University[3], Graduate School of Frontier Biosciences, Osaka University[4]

P26 **Phosphorylation effect on the bound and free states of intrinsically disordered proteins investigated by coarse-grained model**

Umezawa Koji[1], Ohnuki Jun[1], Nishimura Kohei[1], Higo Junichi[2], Takano Mitsunori[1]

Grad. Scl. of Adv. Sci. & Eng., Waseda Univ.[1], IPR, Osaka Univ.[2]

P27 **IDEAL: the collection and visualization of knowledge regarding intrinsically disordered proteins verified by experiments**

Takayuki Amemiya[1], Shigetaka Sakamoto[2], Yukiko Nobe[1], Seiko D. Murakami[1], Yumiko Kado[1], Kazuo Hosoda[3], Ryotaro Koike[1], Hidekazu Hiroaki[4], Motonori Ota[1] & Satoshi Fukuchi[3]

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P28 **Preparation of IDPs using auto-cleavage protease fusion protein**

Natsuko Goda[1], Takeshi Tenno[1], Sonoko Ishino[2], Yoshizumi Ishino[2], Hidekazu Hiroaki[1]

Graduate School og Pharmaceutical Sciences, Nagoya University[1], Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University[2]

P29 **The conservation of chemical composition in intrinsically disordered regions and its utility in their functional classification**

Harry Amri Moesa, Shunichi Wakabayashi, Kenta Nakai and Ashwini Patil
Institute of Medical Science, University of Tokyo

P30 **Study on intrinsically disordered proteins using pattern-designed polypeptide libraries**

Masanori Handa[1], Hiroshi Teranishi[1], Shunta Kurasawa[1], Shinji Fukuda[1], Daisuke Aruga[1], Yusuke Ohsawa[1], Yoshifumi Nishimura[2], Ryoichi Arai[1]
Shinshu University[1], Yokohama City University[2]

P31 **In-cell NMR in Sf9 cells: strategies for resonance assignments and structural analyses**

Junpei Hamatsu[1], Teppei Ikeya[1], Takashi Tanaka[1], Takahiro Shirai[1], Masaki Mishima[1], Masahiro Shirakawa[2], and Yutaka Ito[1]
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