

- [130] "Crystal Structures of the Signal Transducing Protein GlnK from *Thermus thermophilus* HB8"  
H. Sakai, H. Wang, C. Takemoto-Hori, T. Kaminishi, H. Yamaguchi, Y. Kamewari, T. Terada, S. Kuramitsu, M. Shirouzu, S. Yokoyama  
Journal of Structural Biology, **149**, (2005), 99-110
- [131] "Crystallization and Preliminary Crystallographic Analysis of Bacterial Fructosyl Amino Acid Oxidase"  
R. Sakaue, T. Nakatsu, Y. Yamaguchi, H. Kato, N. Kajiyama  
Acta Crystallographica Section F, **61**, (2005), 196-198
- [132] "ATP-Induced Structural Change of Dephosphocoenzyme A Kinase from *Thermus thermophilus* HB8"  
A. Seto, K. Murayama, M. Toyama, A. Ebihara, N. Nakagawa, S. Kuramitsu, M. Shirouzu, S. Yokoyama  
Proteins: Structure, Function, and Bioinformatics, **58**, (2005), 235-242
- [133] "Crystal Structure of Stilbene Synthase from *Arachis hypogaea*"  
Y. Shomura, I. Torayama, D. Suh, T. Xiang, A. Kita, U. Sankawa, K. Miki  
Proteins: Structure, Function, and Bioinformatics, **60**, (2005), 803-806
- [134] "Crystal Structure of Atypical Cytoplasmic ABC-ATPase SufC from *Thermus thermophilus* HB8"  
S. Watanabe, A. Kita, K. Miki  
Journal of Molecular Biology, **353**, (2005), 1043-1054
- [135] "Crystallization and Preliminary Crystallographic Analysis of the Human Calcineurin Homologous Protein CHP2 Bound to the Cytoplasmic Region of the Na<sup>+</sup>/H<sup>+</sup> Exchanger NHE1"  
B. Youssef, S. Takeda, M. Sugahara, M. Miyano, H. Mori, S. Wakabayashi  
Acta Crystallographica Section F, **61**, (2005), 956-958  
[2006]
- [136] "The Crystal Structure of Polyhydroxybutyrate Depolymerase from *Penicillium funiculosum* Provides Insights into the Recognition and Degradation of Biopolymers"  
T. Hisano, K. Kasuya, Y. Tezuka, N. Ishii, T. Kobayashi, M. Shiraki, E. Oroudjev, H. Hansma, T. Iwata, Y. Doi, T. Saito, K. Miki  
Journal of Molecular Biology, **356**, (2006), 933-1004
- [137] "Purification, Crystallization, and Preliminary X-ray Diffraction Studies of N-Acetylglucosamine-phosphate Mutase from *Candida albicans*"  
Y. Nishitani, D. Maruyama, T. Nonaka, A. Kita, T. Fukami, T. Mio, H. Yamada-Okabe, T. Yamada-Okabe, K. Miki  
Acta Crystallographica Section F, **62**, (2006), 419-421
- [138] "Crystal Structure of Human Indoleamine 2,3-dioxygenase: Catalytic Mechanism of O<sub>2</sub> Incorporation by a Heme-Containing Dioxygenase"  
H. Sugimoto, S. Oda, T. Otsuki, T. Hino, T. Yoshida, Y. Shiro  
Proceedings of the National Academy of Sciences of the United States of America, **103**, (2006), 2611-2616

## BL45XU

## Refereed Journals

- [1] [1995] "Conceptual Design of SPring-8 Contract Beamline for Structural Biology"  
M. Yamamoto, T. Fujisawa, M. Nakasako, T. Tanaka, T. Uruga, H. Kimura, H. Yamaoka, Y. Inoue, H. Iwasaki, T. Ishikawa, H. Kitamura, T. Ueki  
Review of Scientific Instruments, **66**, (1995), 1833-1835
- [2] [1998] "Construction of a Vertical Undulator at SPring-8"  
T. Tanaka, X. Marechal, T. Hara, T. Tanabe, H. Kitamura  
Journal of Synchrotron Radiation, **5**, (1998), 414-416
- [3] [1998] "Trichromatic Concept at SPring-8 RIKEN Beamline I"  
M. Yamamoto, T. Kumasaka, T. Fujisawa, T. Ueki  
Journal of Synchrotron Radiation, **5**, (1998), 222-225
- [4] [1999] "Crystal Structure of the RNA-Dependent RNA Polymerase of Hepatitis C Virus"  
H. Ago, T. Adachi, A. Yoshida, M. Yamamoto, N. Habuka, K. Yatsunami, M. Miyano  
Structure, **7**, (1999), 1417-1426

- [5] "The Use of a Hamamatsu X-Ray Image Intensifier with a Cooled CCD as a Solution X-Ray Scattering Detector"  
T. Fujisawa, Y. Inoko, N. Yagi  
Journal of Synchrotron Radiation, **6**, (1999), 1106-1114
- [6] "Design and Synthesis of a Globin Fold"  
Y. Isogai, M. Ota, T. Fujisawa, H. Izuno, M. Mukai, H. Nakamura, T. Iizuka, K. Nishikawa  
Biochemistry, **38**, (1999), 7431-7443
- [7] "A Multiple CCD X-Ray Detector and Its First Operation with Synchrotron Radiation X-Ray Beam"  
M. Suzuki, M. Yamamoto, T. Kumasaka, K. Sato, H. Toyokawa, Ian F. Aries, Paul A. Jerram, T. Ueki  
Nuclear Instruments and Methods in Physics Research Section A, **436**, (1999), 174-181
- [8] "A Multiple-CCD X-Ray Detector and Its Basic Characterization"  
M. Suzuki, M. Yamamoto, T. Kumasaka, K. Sato, H. Toyokawa, Ian F. Aries, Paul A. Jerram, D. Gullick, T. Ueki  
Journal of Synchrotron Radiation, **6**, (1999), 6-18  
[2000]
- [9] "Small Angle X-Ray Scattering and  $^{31}\text{P}$  NMR Studies on the Phase Behavior of Phospholipid Bilayered Mixed Micelles"  
J. Bolze, T. Fujisawa, T. Nagao, K. Norisada, H. Saito, A. Naito  
Chemical Physics Letters, **329**, (2000), 215-220
- [10] "Small-Angle X-Ray Scattering Station at the SPring-8 RIKEN Beamline"  
T. Fujisawa, K. Inoue, T. Oka, H. Iwamoto, T. Uruga, T. Kumasaka, Y. Inoko, N. Yagi, M. Yamamoto, T. Ueki  
Journal of Applied Crystallography, **33**, (2000), 797-800
- [11] "Redesign of Artificial Globins : Effects of Residue Replacements at Hydrophobic Sites on the Structural Properties"  
Y. Isogai, A. Ishii, T. Fujisawa, M. Ota, K. Nishikawa  
Biochemistry, **39**, (2000), 5683-5690
- [12] "Time-Resolved Two-Dimensional X-Ray Diffraction Study of the Effect of Shortening on Activation of Contracting Skeletal Muscle"  
H. Iwamoto, T. Suzuki, T. Fujisawa  
Pflugers Archiv: European Journal of Physiology, **439**, (2000), 646-649
- [13] "Crystallization and Preliminary X-Ray Diffraction Analysis of the Extracellular Domain of the Cell Surface Antigen CD38 Complexed with Ganglioside"  
M. Kukimoto, O. Nureki, M. Shirouzu, T. Katada, Y. Hirabayashi, H. Sugiyama, S. Furuyama, S. Yokoyama, M. Hara-Yokoyama  
The Journal of Biochemistry, **127**, (2000), 181-184
- [14] "Structural Basis of Glutamate Recognition by a Dimeric Metabotropic Glutamate Receptor"  
N. Kunishima, Y. Shimada, Y. Tsuji, T. Sato, M. Yamamoto, T. Kumasaka, S. Nakanishi, H. Jingami, K. Morikawa  
Nature, **407**, (2000), 971-977
- [15] "The Adoption of a Twisted Structure of Importin- $\beta$  is Essential for the Protein-Protein Interaction Required for Nuclear Transport"  
S. Lee, N. Imamoto, H. Sakai, A. Nakagawa, S. Kose, M. Koike, M. Yamamoto, T. Kumasaka, Y. Yoneda, T. Tsukihara  
Journal of Molecular Biology, **302**, (2000), 251-264
- [16] "X-ray Structure of  $\beta$ -Carbonic Anhydrase from the Red Alga, *Porphyridium purpureum*, Reveals a Novel Catalytic Site for  $\text{CO}_2$  Hydration"  
S. Mitsuhashi, T. Mizushima, E. Yamashita, M. Yamamoto, T. Kumasaka, H. Moriyama, T. Ueki, S. Miyachi, T. Tsukihara  
The Journal of Biological Chemistry, **275**, (2000), 5521-5526
- [17] "Crystal Structure of the Pyridoxal 5'-Phosphate Dependent L-Methionine  $\gamma$ -Lyase from *Pseudomonas putida*"  
H. Motoshima, K. Inagaki, T. Kumasaka, M. Furuichi, H. Inoue, T. Tamura, N. Esaki, K. Soda, N. Tanaka, M. Yamamoto, H. Tanaka  
The Journal of Biochemistry, **128**, (2000), 349-354

- [18] "Crystal Structure of *N*-Carbamyl-D-Amino Acid Amidohydrolase with a Novel Catalytic Framework Common to Amidohydrolases"  
T. Nakai, T. Hasegawa, E. Yamashita, M. Yamamoto, T. Kumasaka, T. Ueki, H. Nanba, Y. Ikenaka, S. Takahashi, M. Sato, T. Tsukihara  
*Structure*, **8**, (2000), 729-739
- [19] "Time-Resolved X-Ray Diffraction Reveals Multiple Conformations in the M-N Transition of the Bacteriorhodopsin Photocycle"  
T. Oka, N. Yagi, T. Fujisawa, H. Kamikubo, F. Tokunaga, M. Kataoka  
*Proceedings of the National Academy of Sciences of the United States of America*, **97**, (2000), 14278-14282
- [20] "Crystal Structure of Rhodopsin: A G Protein-Coupled Receptor"  
K. Palczewski, T. Kumasaka, T. Hori, Craig A. Behnke, H. Motoshima, Brian A. Fox, I. Trong, David C. Teller, T. Okada, Ronald E. Stenkamp, M. Yamamoto, M. Miyano  
*Science*, **289**, (2000), 739-745
- [21] "Morphometric Analysis of the Myelin-Associated Oligodendrocytic Basic Protein-Deficient Mouse Reveals a Possible Role for Myelin-Associated Oligodendrocytic Basic Protein in Regulating Axonal Diameter"  
S. Sadahiro, H. Yoshikawa, N. Yagi, Y. Yamamoto, T. Yanagihara, M. Kimura, S. Sakoda  
*Neuroscience*, **98**, (2000), 361-367
- [22] "Crystallization of the F41 Fragment of Flagellin and Data Collection from Extremely Thin Crystals"  
Fadel A. Samatey, K. Imada, F. Vonderviszt, Y. Shirakihara, K. Namba  
*Journal of Structural Biology*, **132**, (2000), 106-111
- [23] "Crystallization and the Crystal Properties of the Oxygen-Evolving Photosystem II from *Synechococcus vulgaris*"  
J. Shen, N. Kamiya  
*Biochemistry*, **39**, (2000), 14739-14744
- [24] "Crystallization and Preliminary X-Ray Crystallographic Studies of *Thermus thermophilus* HB8 MutM Protein Involved in Repairs of Oxidative DNA Damage"  
M. Sugahara, T. Mikawa, R. Kato, K. Fukuyama, T. Kumasaka, M. Yamamoto, Y. Inoue, S. Kuramitsu  
*The Journal of Biochemistry*, **127**, (2000), 9-11
- [25] "Crystal Structure of a Repair Enzyme of Oxidatively Damaged DNA, MutM (Fpg), from an Extreme Thermophile, *Thermus thermophilus* HB8"  
M. Sugahara, T. Mikawa, T. Kumasaka, M. Yamamoto, R. Kato, K. Fukuyama, Y. Inoue, S. Kuramitsu  
*The EMBO Journal*, **19**, (2000), 3857-3869
- [26] "Crystal Structure Combined with Genetic Analysis of the *Thermus thermophilus* Ribosome Recycling Factor Shows that a Flexible Hinge May Act as a Functional Switch"  
T. Toyoda, Ouliana F. Tin, K. Ito, T. Fujiwara, T. Kumasaka, M. Yamamoto, Maria B. Garber, Y. Nakamura  
*RNA*, **6**, (2000), 1432-1444
- [27] "Prospects for X-Ray Crystal Structure Analysis of Selenoproteins with SPring-8 Synchrotron Radiation"  
M. Yamamoto, T. Kumasaka, E. Yamashita, H. Moriyama, M. Sato, T. Ueki  
*Journal of Health Science*, **46**, (2000), 426-429  
[2001]
- [28] "The Shapes and Sizes of Two Domains of Tropomodulin, the P-End-Capping Protein of Actin-Tropomyosin"  
T. Fujisawa, A. Kostyukova, Y. Maeda  
*FEBS Letters*, **498**, (2001), 67-71
- [29] "Structure of a New 'Aspzincin' Metalloendopeptidase from *Grifola frondosa*: Implications for the Catalytic Mechanism and Substrate Specificity Based on Several Different Crystal Forms"  
T. Hori, T. Kumasaka, M. Yamamoto, T. Nonaka, N. Tanaka, Y. Hashimoto, T. Ueki, K. Takio  
*Acta Crystallographica Section D*, **57**, (2001), 361-368
- [30] "Crystallization and Preliminary X-Ray Crystallographic Analysis of *S*-Allelic Glycoprotein *S*<sub>F11</sub>-RNase from *Nicotiana alata*"  
K. Ida, T. Shinkawa, S. Norioka, E. Newbiggin, Adrienne E. Clarke, F. Sakiyama, M. Sato  
*Acta Crystallographica Section D*, **57**, (2001), 143-144

- [31] "The 1.55Å Resolution Structure of *Nicotiana alata* S<sub>F11</sub>-RNase Associated with Gametophytic Self-Incompatibility"  
K. Ida, S. Norioka, M. Yamamoto, T. Kumasaka, E. Yamashita, E. Newbigin, Adrienne E. Clarke, F. Sakiyama, M. Sato  
Journal of Molecular Biology, **314**, (2001), 103-112
- [32] "Reaction Mechanism and Crystal Structure of 4- $\alpha$ -Glucanotransferase from a Hyperthermophilic Archaeon, *Thermococcus Litoralis*"  
H. Imamura, S. Fushinobu, M. Yamamoto, T. Kumasaka, T. Wakagi, H. Matsuzawa  
応用糖質科学 (Journal of Applied Glycoscience), **48**, (2001), 171-175
- [33] "X-Ray Diffraction Evidence for the Lack of Stereospecific Protein Interactions in Highly Activated Actomyosin Complex"  
H. Iwamoto, K. Oiwa, T. Suzuki, T. Fujisawa  
Journal of Molecular Biology, **305**, (2001), 863-874
- [34] "Crystal Structure of a Novel-Type Archaeal Rubisco with Pentagonal Symmetry"  
K. Kitano, N. Maeda, T. Fukui, H. Atomi, T. Imanaka, K. Miki  
Structure, **9**, (2001), 473-481
- [35] "How the G protein-Coupled Receptor Activates GTP-Binding Protein"  
M. Miyano  
The Pharmacogenomics Journal, **1**, (2001), 225-228
- [36] "Large-Scale Domain Movements and Hydration Structure Changes in the Active-Site Cleft of Unligated Glutamate Dehydrogenase from *Thermococcus profundus* Studied by Cryogenic X-Ray Crystal Structure Analysis and Small-Angle X-Ray Scattering"  
M. Nakasako, T. Fujisawa, S. Adachi, T. Kudo, S. Higuchi  
Biochemistry, **40**, (2001), 3069-3079
- [37] "Large-Scale Networks of Hydration Water Molecules Around Proteins Investigated by Cryogenic X-Ray Crystallography"  
M. Nakasako,  
Cellular and Molecular Biology, **47**, (2001), 767-790
- [38] "Improvement of a High Pressure Cell with Diamond Windows for Solution X-Ray Scattering of Proteins"  
Y. Nishikawa, T. Fujisawa, Y. Inoko, M. Moritoki  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1384-1387
- [39] "Synchrotron Small Angle X-Ray Scattering from Organogels. Part 1. Changes in Molecular Assemblies of Cholesterol Gelators during Gel-Sol Transition"  
K. Sakurai, Y. Ono, J. Jung, S. Okamoto, S. Sakurai, S. Shinkai  
Journal of the Chemical Society, Perkin Transactions 2, **2001**, (2001), 108-112
- [40] "Polysaccharide-Polynucleotide Complexes. 2. Complementary Polynucleotide Mimic Behavior of the Natural Polysaccharide: Schizophyllan in the Macromolecular Complex with Single-Stranded RNA and DNA"  
K. Sakurai, M. Mizu, S. Shinkai  
Biomacromolecules, **2**, (2001), 641-650
- [41] "Collapse of the *Ia3d* Cubic Symmetry by Uniaxial Stretching of a Double-Gyroid Block Copolymer"  
S. Sakurai, D. Isobe, S. Okamoto, T. Yao, S. Nomura  
Physical Review E, **63**, (2001), 061803
- [42] "Structure of the Bacterial Flagellar Protofilament and Implications for a Switch for Supercoiling"  
Fadel A. Samatey, K. Imada, S. Nagashima, F. Vonderviszt, T. Kumasaka, M. Yamamoto, K. Namba  
Nature, **410**, (2001), 331-337
- [43] "Crystallization and Preliminary X-Ray Analysis of the C/EBP  $\beta$  C-Terminal Region in Complex with DNA"  
Tahir H. Tahirov, T. Inoue-Bungo, M. Sasaki, A. Fujikawa, K. Kimura, K. Sato, S. Adachi, N. Kamiya, K. Ogata  
Acta Crystallographica Section D, **57**, (2001), 854-856
- [44] "Crystallization and Preliminary X-Ray Analyses of Quaternary, Ternary and Binary Protein-DNA Complexes with Involvement of AML1/Runx-1/CBF  $\alpha$  Runt Domain, CBF  $\beta$  and the C/EBP  $\beta$  bZip Region"  
Tahir H. Tahirov, T. Inoue-Bungo, M. Sasaki, M. Shiina, K. Kimura, K. Sato, T. Kumasaka, M. Yamamoto, N. Kamiya, K. Ogata  
Acta Crystallographica Section D, **57**, (2001), 850-853

- [45] "Crystals of Ternary Protein-DNA Complexes Composed of DNA-Binding Domains of c-Myb or v-Myb, C/EBP  $\alpha$  or C/EBP  $\beta$  and *tom-1A* Promoter Fragment"  
Tahir H. Tahirov, M. Sasaki, T. Inoue-Bungo, A. Fujikawa, K. Sato, T. Kumasaka, M. Yamamoto, K. Ogata  
Acta Crystallographica Section D, **57**, (2001), 1655-1658
- [46] "Structural Analyses of DNA Recognition by the AML1/Runx-1 Runt Domain and Its Allosteric Control by CBF  $\beta$ "  
Tahir H. Tahirov, T. Inoue-Bungo, H. Morii, A. Fujikawa, M. Sasaki, K. Kimura, M. Shiina, K. Sato, T. Kumasaka, M. Yamamoto, S. Ishii, K. Ogata  
Cell, **104**, (2001), 755-767
- [47] "Performance of a Micro-Strip Gas Chamber in Solution X-Ray Scattering"  
H. Toyokawa, T. Fujisawa, Y. Inoko, T. Nagayoshi, Y. Nishi, Y. Nishikawa, A. Ochi, M. Suzuki, T. Tanimori  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1144-1147
- [48] "Crystal Structure of the Holliday Junction Migration Motor Protein RuvB from *Thermus thermophilus* HB8"  
K. Yamada, N. Kunishima, K. Mayanagi, T. Ohnishi, T. Nishino, H. Iwasaki, H. Shinagawa, K. Morikawa  
Proceedings of the National Academy of Sciences of the United States of America, **98**, (2001), 1442-1447
- [49] "Development of High-Speed Imaging Plate Detector"  
M. Yamamoto, T. Kumasaka, H. Yamazaki, K. Sasaki, Y. Yokozawa, T. Ishikawa  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1160-1162 [2002]
- [50] "Conformational Landscape of Cytochrome *c* Folding Studied by Microsecond-Resolved Small-Angle X-Ray Scattering"  
S. Akiyama, S. Takahashi, T. Kimura, K. Ishimori, I. Morishima, Y. Nishikawa, T. Fujisawa  
Proceedings of the National Academy of Sciences of the United States of America, **99**, (2002), 1329-1334
- [51] "Crystal Structure of Argininosuccinate Synthetase from *Thermus thermophilus* HB8"  
M. Goto, Y. Nakajima, K. Hirotsu  
The Journal of Biological Chemistry, **277**, (2002), 15890-15896
- [52] "Crystal Structure of the Homer 1 Family Conserved Region Reveals the Interaction Between the EVH1 Domain and Own Proline-Rich Motif"  
K. Irie, T. Nakatsu, K. Mitsuoka, A. Miyazawa, K. Sobue, Y. Hiroaki, T. Doi, Y. Fujiyoshi, H. Kato  
Journal of Molecular Biology, **318**, (2002), 1117-1126
- [53] "Crystal Structure of Lipocalin-Type Prostaglandin D Synthase"  
D. Irikura, T. Kumasaka, M. Yamamoto, O. Hayaishi, Y. Urade  
International Congress Series, **1233**, (2002), 453-459
- [54] "States of Thin Filament Regulatory Proteins as Revealed by Combined Cross-Linking/X-Ray Diffraction Techniques"  
H. Iwamoto, K. Oiwa, T. Suzuki, T. Fujisawa  
Journal of Molecular Biology, **317**, (2002), 707-720
- [55] "Direct X-Ray Observation of a Single Hexagonal Myofilament Lattice in Native Myofibrils of Striated Muscle"  
H. Iwamoto, Y. Nishikawa, J. Wakayama, T. Fujisawa  
Biophysical Journal, **83**, (2002), 1074-1081
- [56] "Crystal Structure of the Homologous-Pairing Domain from the Human Rad52 Recombinase in the Undecameric Form"  
W. Kagawa, H. Kurumizaka, R. Ishitani, S. Fukai, O. Nureki, T. Shibata, S. Yokoyama  
Molecular Cell, **10**, (2002), 359-371
- [57] "Trichromatic Concept Optimizes MAD Experiments in Synchrotron X-Ray Crystallography"  
T. Kumasaka, M. Yamamoto, E. Yamashita, H. Moriyama, T. Ueki  
Structure, **10**, (2002), 1205-1210
- [58] "Oligomerization Process of the Hemolytic Lectin CEL-III Purified from a Sea Cucumber, *Cucumaria echinata*"  
H. Kuwahara, T. Yamasaki, T. Hatakeyama, H. Aoyagi, T. Fujisawa  
The Journal of Biochemistry, **131**, (2002), 751-756

- [59] "Use of a MicroStrip Gas Chamber Conductive Capillary Plate for Time-Resolved X-Ray Area Detection"  
A. Ochi, T. Tanimori, Y. Nishi, Y. Nishi, T. Nagayoshi, Y. Ohashi, H. Uekusa, H. Toyokawa  
Nuclear Instruments and Methods in Physics Research Section A, **477**, (2002), 48-54
- [60] "Time-Resolved X-Ray Diffraction Reveals Movement of F Helix of D96N Bacteriorhodopsin during M-MN Transition at Neutral pH"  
T. Oka, N. Yagi, F. Tokunaga, M. Kataoka  
Biophysical Journal, **82**, (2002), 2610-2616
- [61] "Thermophilic Cytochrome P450 (CYP119) from *Sulfolobus solfataricus*: High Resolution Structure Functional Properties"  
S. Park, K. Yamane, S. Adachi, Y. Shiro, Kara E. Weiss, Shelley A. Maves, Stephen G. Sligar  
Journal of Inorganic Biochemistry, **91**, (2002), 491-501
- [62] "Some Anomalies in Pressure-Induced Ordering of Glassy Spheres in a Rubbery Matrix of a Microphase-Separated Triblock Copolymer"  
S. Sakurai, S. Aida, T. Tamura, T. Kota, S. Okamoto, K. Sakurai, N. Tanaka, S. Kunugi, S. Nomura  
Polymer, **43**, (2002), 1959-1962
- [63] "Mechanism of c-Myb-C/EBP  $\beta$  Cooperation from Separated Sites on a Promoter"  
Tahir H. Tahirov, K. Sato, E. Ichikawa-Iwata, M. Sasaki, T. Inoue-Bungo, M. Shiina, K. Kimura, S. Takata, A. Fujikawa, H. Morii, T. Kumazaka, M. Yamamoto, S. Ishii, K. Ogata  
Cell, **108**, (2002), 57-70
- [64] "Structure of a T7 RNA Polymerase Elongation Complex at 2.9 Å Resolution"  
Tahir H. Tahirov, D. Temiakov, M. Anikin, V. Patlan, William T. McAllister, Dmitry G. Vassylyev, S. Yokoyama  
Nature, **420**, (2002), 43-50
- [65] "The Effects of Aggregation-Inducing Motifs on Amyloid Formation of Model Proteins Related to Neurodegenerative Diseases"  
M. Tanaka, Y. Machida, Y. Nishikawa, T. Akagi, I. Morishima, T. Hashikawa, T. Fujisawa, N. Nukina  
Biochemistry, **41**, (2002), 10277-10286
- [66] "Comparison of the Structure of the Extrinsic 33 kDa Protein from Different Organisms"  
A. Tohri, T. Suzuki, S. Okuyama, K. Kamino, A. Motoki, M. Hirano, H. Ohta, J. Shen, Y. Yamamoto, I. Enami  
Plant and Cell Physiolg, **43**, (2002), 429-439
- [67] "Crystal Structure of a Bacterial RNA Polymerase Holoenzyme at 2.6 Å Resolution"  
Dmitry G. Vassylyev, S. Sekine, O. Laptenko, J. Lee, Marina N. Vassylyeva, S. Borukhov, S. Yokoyama  
Nature, **417**, (2002), 712-719
- [68] "Purification, Crystallization and Initial Crystallographic Analysis of RNA Polymerase Holoenzyme from *Thermus thermophilus*"  
Marina N. Vassylyeva, J. Lee, S. Sekine, O. Laptenko, S. Kuramatsu, T. Shibata, Y. Inoue, Dmitry G. Vassylyev, S. Yokoyama  
Acta Crystallographica Section D, **58**, (2002), 1497-1500  
[2003]
- [69] "Evaluation and Improvements of the Rigaku Imaging Plate Reader(R-Axis IV++) for the Use in Synchrotron X-Ray Solusion Scattering"  
T. Fujisawa, Y. Nishikawa, H. Yamazaki, Y. Inoko  
Journal of Applied Crystallography, **36**, (2003), 535-539
- [70] "Structure Formation from the Oriented Glassy States of Poly(Ethylene Terephthalate)"  
K. Fukao, A. Koyama, D. Tahara, Y. Kozono, Y. Miyamoto, N. Tsurutani  
Journal of Macromolecular Science, Part B-Physics, **B42**, (2003), 717-731
- [71] "Oxyanion Hole-Stabilized Stereospecific Isomerization in Ribose-5-Phosphate Isomerase(Rpi)"  
K. Hamada, H. Ago, M. Sugahara, Y. Nodake, S. Kuramitsu, M. Miyano  
The Journal of Biological Chemistry, **278**, (2003), 49183-49190
- [72] "An X-Ray Diffraction Study on the ADP-Induced Conformational Change in Skeletal Muscle Myosin"  
K. Horiuti, N. Yagi, S. Takemori, M. Yamaguchi  
The Journal of Biochemistry, **133**, (2003), 207-210
- [73] "Crystal Structure of a Family 4 Uracil-DNA Glycosylase from *Thermus thermophilus* HB8"  
J. Hoseki, A. Okamoto, R. Masui, T. Shibata, Y. Inoue, S. Yokoyama, S. Kuramitsu  
Journal of Molecular Biology, **333**, (2003), 515-526

- [74] "Transformation of Cubic Symmetry for Spherical Microdomains from Face-Centred to Body-Centred Cubic upon Uniaxial Elongation in an Elastomeric Triblock Copolymer"  
K. Imaizumi, T. Ono, T. Kota, S. Okamoto, S. Sakurai  
Journal of Applied Crystallography, **36**, (2003), 976-981
- [75] "Crystal Structures of 4- $\alpha$ -Glucanotransferase from *Thermococcus Litoralis* and Its Complex with an Inhibitor"  
H. Imamura, S. Fushinobu, M. Yamamoto, T. Kumasaka, B. Jeon, T. Wakagi, H. Matsuzawa  
The Journal of Biological Chemistry, **278**, (2003), 19378-19386
- [76] "Mechanism of Metal Activation of Human Hematopoietic Prostaglandin D Synthase"  
T. Inoue, D. Irikura, N. Okazaki, S. Kinugasa, H. Matsumura, N. Uodome, M. Yamamoto, T. Kumasaka, M. Miyano, Y. Kai, Y. Urade  
Nature Structural Biology, **10**, (2003), 291-296
- [77] "Cloning, Expression, Crystallization, and Preliminary X-Ray Analysis of Recombinant Mouse Lipocalin-type Prostaglandin D Synthase, a Somnogen-Producing Enzyme"  
D. Irikura, T. Kumasaka, M. Yamamoto, H. Ago, M. Miyano, K. Kubata, H. Sakai, O. Hayaishi, Y. Urade  
The Journal of Biochemistry, **133**, (2003), 29-32
- [78] "Static and Dynamic X-Ray Diffraction Recordings from Living Mammalian and Amphibian Skeletal Muscles"  
H. Iwamoto, J. Wakayama, T. Fujisawa, N. Yagi  
Biophysical Journal, **85**, (2003), 2492-2506
- [79] "Crystal Structure of Oxygen-Evolving Photosystem II from *Thermosynechococcus vulcanus* at 3.7- $\text{\AA}$  Resolution"  
N. Kamiya, J. Shen  
Proceedings of the National Academy of Sciences of the United States of America, **100**, (2003), 98-103
- [80] "Functionalization on Polyamide Complex with Iodide: a Review"  
A. Kawaguchi, N. Tsurutani  
Macromolecular Symposia, **202**, (2003), 77-84
- [81] "Crystallization and Preliminary X-ray Analysis of the Small Component of 4-Hydroxyphenylacetate 3-monooxygenase (HpaC) and Its Cofactor Complex from *Thermus thermophilus* HB8"  
S. Kim, H. Miyatake, T. Hisano, N. Ohtani, K. Miki  
Acta Crystallographica Section D, **59**, (2003), 2275-2278
- [82] "Pressure Dependence of Thermal Fluctuation Effects on the Order-Disorder Transition of Diblock Copolymer Solutions"  
M. Miyazawa, M. Takenaka, T. Miyajima, T. Hashimoto  
Journal of Applied Crystallography, **36**, (2003), 656-659
- [83] "Coexpression, Purification, Crystallization and Preliminary X-Ray Characterization of Glycine Decarboxylase (P-Protein) of the Glycine-Cleavage System from *Thermus thermophilus* HB8"  
T. Nakai, N. Nakagawa, N. Maoka, R. Masui, S. Kuramitsu, N. Kamiya  
Acta Crystallographica Section D, **59**, (2003), 554-557
- [84] "Crystal Structure of Calcium-free  $\alpha$ -Amylase from *Bacillus* sp. Strain KSM-K38 (AmyK38) and Its Sodium Ion Binding Sites"  
T. Nonaka, M. Fujihashi, A. Kita, H. Hagiwara, K. Ozaki, S. Ito, K. Miki  
The Journal of Biological Chemistry, **278**, (2003), 24818-24824
- [85] "Helix 8 of the Leukotriene B<sub>4</sub> Receptor Is Required for the Conformational Change to the Low Affinity State after G-protein Activation"  
T. Okuno, H. Ago, K. Terawaki, M. Miyano, T. Shimizu, T. Yokomizo  
The Journal of Biological Chemistry, **278**, (2003), 41500-41509
- [86] "An X-ray Diffraction Study on Contraction of Rat Papillary Muscle with Different Afterloads"  
H. Okuyama, N. Yagi, H. Toyota, J. Araki, J. Shimizu, G. Iribé, K. Nakamura, S. Mohri, M. Kakishita, K. Hashimoto, T. Morimoto, K. Tsujioka, F. Kajiya, H. Suga  
Advances in Experimental Medicine and Biology, **538**, (2003), 533-539
- [87] "Crystal Structure of a Lysine Biosynthesis Enzyme, LysX, from *Thermus thermophilus* HB8"  
H. Sakai, M. Vassylyeva, T. Matsuura, S. Sekine, K. Gotoh, M. Nishiyama, T. Terada, M. Shirouzu, S. Kuramitsu, D. Vassylyev, S. Yokoyama  
Journal of Molecular Biology, **332**, (2003), 729-740

- 200 *Overview 2006*
- [88] "Supramolecular Structure of a Sugar-Appended Organogelator Explored with Synchrotron X-Ray Small Angle Scattering"  
K. Sakurai, Y. Jeong, K. Koumoto, A. Friggeri, O. Gronwald, S. Sakurai, S. Okamoto, K. Inoue, S. Shinkai  
*Langmuir*, **19**, (2003), 8211-8217
- [89] "Nanostructures of Polyelectrolyte Gel-Surfactant Complexes in Uniaxially Stretching Networks"  
S. Sasaki, S. Koga, M. Sugiyama, M. Annaka  
*Physical Review E*, **68**, (2003), 021504
- [90] "ATP Binding by Glutamyl-tRNA Synthetase is Switched to the Productive Mode by tRNA Binding"  
S. Sekine, O. Nureki, Daniel Y. Dubois, S. Bernier, R. Chenevert, J. Lapointe, Dmitry G. Vassylyev, S. Yokoyama  
*The EMBO Journal*, **22**, (2003), 676-688
- [91] "Evaluation of Three Algorithms for *ab initio* Determination of Three-Dimensional Shape from One-Dimensional Solution Scattering Profiles"  
Y. Takahashi, Y. Nishikawa, T. Fujisawa  
*Journal of Applied Crystallography*, **36**, (2003), 549-552
- [92] "Structure of the Core Domain of Human Cardiac Troponin in the Ca<sup>2+</sup>-Saturated Form"  
S. Takeda, A. Yamashita, K. Maeda, Y. Maeda  
*Nature*, **424**, (2003), 35-41
- [93] "Expansion of Polyglutamine Induces the Formation of Quasi-Aggregate in the Early Stage of Protein Fibrillization"  
M. Tanaka, Y. Machida, Y. Nishikawa, T. Akagi, T. Hashikawa, T. Fujisawa, N. Nukina  
*The Journal of Biological Chemistry*, **278**, (2003), 34717-34724
- [94] "Crystallization and Preliminary Crystallographic Analysis of T7 RNA Polymerase Elongation Complex"  
D. Temiakov, Tahir H. Tahirov, M. Anikin, William T. McAllister, Dmitry G. Vassylyev, S. Yokoyama  
*Acta Crystallographica Section D*, **59**, (2003), 185-187
- [95] "Cloning, Expression, Purification, Crystallization and Initial Crystallographic Analysis of the Lysinebiosynthesis LysX Protein from *Thermus thermophilus* HB8"  
M. Vassylyeva, H. Sakai, T. Matsuura, S. Sekine, M. Nishiyama, T. Terada, M. Shirouzu, S. Kuramitsu, D. Vassylyev, S. Yokoyama  
*Acta Crystallographica Section D*, **59**, (2003), 1651-1652
- [96] "Structure of a Conserved CoA-Binding Protein Synthesized by a Cell-Free System"  
T. Wada, M. Shirouzu, T. Terada, Y. Ishizuka, T. Matsuda, T. Kigawa, S. Kuramitsu, S. Park, Jeremy R. H. Tame, S. Yokoyama  
*Acta Crystallographica Section D*, **59**, (2003), 1213-1218
- [97] "Crystal Structure of CapZ: Structural Basis for Actin Filament Barbed End Capping"  
A. Yamashita, K. Maeda, Y. Maeda  
*The EMBO Journal*, **22**, (2003), 1529-1538
- [98] "Crystal Structure of a MARCKS Peptide Containing the Calmodulin-Binding Domain in Complex with Ca<sup>2+</sup>-Calmodulin"  
E. Yamauchi, T. Nakatsu, M. Matsubara, H. Kato, H. Taniguchi  
*Nature Structural Biology*, **10**, (2003), 226-231  
[2004]
- [99] "Formation Processes of the Integrated Ordered Mesostructure of Silica at Liquid-Liquid Interface using Synchrotron Radiation X-rays"  
M. Adachi, Y. Murata, K. Sago, K. Nakagawa  
*Langmuir*, **20**, (2004), 5965-5968
- [100] "Phase Behavior of Hydrogen-Bonded Polymer-Surfactant Mixtures in Selective Solvent"  
I. Akiba, H. Masunaga, Y. Jeong, K. Sasaki, K. Sakurai  
*Macromolecules*, **37**, (2004), 10047-10051
- [101] "Activation Mechanisms of Transcriptional Regulator CooA Revealed by Small-Angle X-ray Scattering"  
S. Akiyama, T. Fujisawa, K. Ishimori, I. Morishima, S. Aono  
*Journal of Molecular Biology*, **341**, (2004), 651-668
- [102] "Conformations of Variably Linked Chimeric Proteins Evaluated by Synchrotron X-ray Small-Angle Scattering"  
R. Arai, W. Wriggers, Y. Nishikawa, T. Nagamune, T. Fujisawa  
*Proteins: Structure, Function, and Bioinformatics*, **57**, (2004), 829-838

- [103] "Structural Basis for Transcription Regulation by Alarmone ppGpp"  
I. Artsimovitch, V. Patlan, S. Sekine, M. Vassilyeva, T. Hosaka, K. Ochi, S. Yokoyama, V. Vassilyev  
*Cell*, **117**, (2004), 299-310
- [104] "Crystal Structures of Glutamine:Phenylpyruvate Aminotransferase from *Thermus thermophilus* HB8: Induced Fit and Substrate Recognition"  
M. Goto, R. Omi, I. Miyahara, A. Hosono, H. Mizuguchi, H. Hayashi, H. Kagamiyama, K. Hirotsu  
*The Journal of Biological Chemistry*, **279**, (2004), 16518-16525
- [105] "Crystal Structure of Elongation Factor P from *Thermus Thermophilus* HB8"  
K. Hanawa-Suetsugu, S. Sekine, H. Sakai, C. Hori-Takemoto, T. Terada, S. Unzai, Jeremy R. H. Tame, S. Kuramitsu, M. Shirouzu, S. Yokoyama  
*Proceedings of the National Academy of Sciences of the United States of America*, **101**, (2004), 9595-9600
- [106] "Organization of the Cores of the Mammalian Pyruvate Dehydrogenase Complex Formed by *E2* and *E2* Plus the *E3*-binding Protein and Their Capacities to Bind the *E1* and *E3* Components"  
Y. Hiromasa, Thomas E. Roche, Y. Aso, T. Fujisawa  
*The Journal of Biological Chemistry*, **279**, (2004), 6921-6933
- [107] "The Crystal Structures of the Ferric and Ferrous Forms of the Heme Complex of HmuO, a Heme Oxygenase of *Corynebacterium diphtheriae*"  
S. Hirotsu, G. Chu, M. Unno, D. Lee, T. Yoshida, S. Park, Y. Shiro, M. Ikeda-Saito  
*The Journal of Biological Chemistry*, **279**, (2004), 11937-11947
- [108] "Structural Basis of the Substrate-Specific Two-Step Catalysis of Long Chain Fatty Acyl-CoA Synthetase Dimer"  
Y. Hisanaga, H. Ago, N. Nakagawa, K. Hamada, K. Ida, M. Yamamoto, T. Hori, Y. Arii, M. Sugahara, S. Kuramitsu, S. Yokoyama, M. Miyano  
*The Journal of Biological Chemistry*, **279**, (2004), 31717-31726
- [109] "Structural Basis of Leukotriene B<sub>4</sub> 12-Hydroxydehydrogenase/15-Oxo-prostaglandin13-Reductase Catalytic Mechanism and a Possible Src Homology 3 Domain Binding Loop"  
T. Hori, Y. Takehiko, H. Ago, M. Sugahara, G. Ueno, M. Yamamoto, T. Kumashita, T. Shimizu, M. Miyano  
*The Journal of Biological Chemistry*, **279**, (2004), 22615-22623
- [110] "Crystal Structure of the PsbP Protein of Photosystem II from *Nicotiana tabacum*"  
K. Ifuku, T. Nakatsu, H. Kato, F. Sato  
*EMBO Reports*, **5**, (2004), 362-367
- [111] "Crystallization and Preliminary X-ray Crystallographic Studies on the Small Form of Glucose-Inhibited Division Protein A from *Thermus thermophilus* HB8"  
W. Iwasaki, H. Miyatake, A. Ebihara, K. Miki  
*Acta Crystallographica Section D*, **60**, (2004), 515-517
- [112] "RNA Displacement and Resolution of the Transcription Bubble during Transcription by T7 RNA Polymerase"  
M. Jiang, N. Ma, Dmitry G. Vassilyev, William T. McAllister  
*Molecular Cell*, **15**, (2004), 777-788
- [113] "Elastic Relaxation of Collapsed Poly(alkylacrylamide) Gels and Their Complexes with Phenol"  
S. Koga, T. Kawashima, S. Sasaki  
*The Journal of Physical Chemistry B*, **108**, (2004), 10838-10844
- [114] "Radiation Damage to a Protein Solution, Detected by Synchrotron X-ray Small-Angle Scattering: Dose-Related Considerations and Suppression by Cryoprotectants"  
S. Kuwamoto, S. Akiyama, T. Fujisawa  
*Journal of Synchrotron Radiation*, **11**, (2004), 462-468
- [115] "Structure of Aldolase from *Thermus thermophilus* HB8 Showing the Contribution of Oligomeric State to Thermostability"  
N. Lokanath, I. Shiromizu, N. Ohshima, Y. Nodake, M. Sugahara, S. Yokoyama, S. Kuramitsu, M. Miyano, N. Kunishima  
*Acta Crystallographica Section D*, **60**, (2004), 1816-1823
- [116] "Crystal Structure of a Myristoylated CAP-23/NAP-22 N-terminal Domain Complexed with Ca<sup>2+</sup>/calmodulin"  
M. Matsubara, T. Nakatsu, H. Kato, H. Taniguchi  
*The EMBO Journal*, **23**, (2004), 712-718

- [117] "Ligand-induced Conformational Changes and a Reaction Intermediate in Branched-chain 2-Oxo Acid Dehydrogenase (E1) from *Thermus thermophilus* HB8, as Revealed by X-ray Crystallography"  
T. Nakai, N. Nakagawa, N. Maoka, R. Masui, S. Kuramitsu, N. Kamiya  
Journal of Molecular Biology, **337**, (2004), 1011-1033
- [118] "Structure of the C Subunit of V-type ATPase from *Thermus thermophilus* at 1.85 Å Resolution"  
N. Numoto, A. Kita, K. Miki  
Acta Crystallographica Section D, **60**, (2004), 810-815
- [119] "Order-Disorder Phase Transition of Polyelectrolyte Gel-Surfactant Complexes"  
S. Sasaki, K. Shogo  
Macromolecules, **37**, (2004), 3809-3814
- [120] "Crystal Structures of the Group II Chaperonin from *Thermococcus* strain KS-1: Steric Hindrance by the Substituted Amino Acid, and Inter-subunit Rearrangement between Two Crystal Forms"  
Y. Shomura, T. Yoshida, R. Iizuka, T. Maruyama, M. Yohda, K. Miki  
Journal of Molecular Biology, **335**, (2004), 1265-1278
- [121] "Discrimination against Deoxyribonucleotide Substrates by Bacterial RNA Polymerase"  
V. Svetlov, Dmitry G. Vassilyev, I. Artsimovitch  
The Journal of Biological Chemistry, **279**, (2004), 38087-38090
- [122] "Comparison in Fractal Dimension between Those Obtained from Structure Factor and Viscoelasticity of Gel Networks of 1,3:2,4-bis-(*p*-Methylbenzylidene)-*D*-Sorbitol in Polystyrene Melt at Gel Point"  
M. Takenaka, T. Kobayashi, K. Saijo, H. Tanaka, N. Iwase, T. Hashimoto, M. Takahashi  
The Journal of Chemical Physics, **121**, (2004), 3323-3328
- [123] "Shear-Induced Phase Separation in "Nonentangled" Oligomer Mixture"  
M. Takenaka, S. Nishitsuji, M. Miyazawa, T. Hashimoto  
The Journal of Chemical Physics, **121**, (2004), 7501-7504
- [124] "Intensity of X-ray Reflections from Skeletal Muscle Thin Filaments Partially Occupied with Myosin Heads: Effect of Cooperative Binding"  
T. Tamura, J. Wakayama, T. Fujisawa, N. Yagi, H. Iwamoto  
Journal of Muscle Research Cell Motility, **25**, (2004), 329-335
- [125] "Collapse and Search Dynamics of Apomyoglobin Folding Revealed by Submillisecond Observations of  $\alpha$ -Helical Content and Compactness"  
T. Uzawa, S. Akiyama, T. Kimura, S. Takahashi, K. Ishimori, I. Morishima, T. Fujisawa  
Proceedings of the National Academy of Sciences of the United States of America, **101**, (2004), 1171-1176
- [126] "Sarcomere-Length Dependence of Lattice Volume and Radial Mass Transfer of Myosin Cross-Bridges in Rat Papillary Muscle"  
N. Yagi, H. Okuyama, H. Toyota, J. Araki, J. Shimizu, G. Iribe, K. Nakamura, S. Mohri, K. Tsujioka, H. Suga, F. Kajiyama  
Pflugers Archiv: European Journal of Physiology, **448**, (2004), 153-160
- [127] "Structural Insights into the *Thermus thermophilus* ADP-ribose Pyrophosphatase Mechanism via Crystal Structures with the Bound Substrate and Metal"  
S. Yoshioka, T. Ooga, N. Nakagawa, T. Shibata, Y. Inoue, S. Yokoyama, S. Kuramitsu, R. Masui  
The Journal of Biological Chemistry, **279**, (2004), 37163-37174  
[2005]
- [128] "Synchrotron SAXS and WAXS Studies on Changes in Structural and Thermal Properties of Poly[(*R*)-3-hydroxybutyrate] Single Crystals during Heating"  
M. Fujita, T. Sawayanagi, T. Tanaka, T. Iwata, H. Abe, Y. Doi, K. Ito, T. Fujisawa  
Macromolecular Rapid Communications, , (2005), 678-683
- [129] "Crystal Structure of a Novel Polyisoprenoid-Binding Protein from *Thermus Thermophilus* HB8"  
N. Handa, T. Terada, Y. Doi-Katayama, H. Hirota, Jeremy R. H. Tame, S. Park, S. Kuramitsu, M. Shirouzu, S. Yokoyama  
Protein Science, **14**, (2005), 1004-1010
- [130] "Crystal Structures of Type II Restriction Endonuclease EcoO109I and Its Complex with Cognate DNA"  
H. Hashimoto, T. Shimizu, T. Imasaki, M. Kato, N. Shichijo, K. Kita, M. Sato  
The Journal of Biological Chemistry, **280**, (2005), 5605-5610
- [131] "X-ray Microdiffraction and Conventional Diffraction from Frozen-Hydrated Biological Specimens"  
H. Iwamoto, K. Inoue, T. Fujisawa, N. Yagi  
Journal of Synchrotron Radiation, **12**, (2005), 479-483

- [132] "Crystal Structure of the Small Form of Glucose-Inhibited Division Protein A from *Thermus thermophilus* HB8"  
W. Iwasaki, H. Miyatake, K. Miki  
*Proteins: Structure, Function, and Bioinformatics*, **61**, (2005), 1121-1126
- [133] "Time-Resolved X-ray Diffraction Study on Poly[(R)-3-hydroxybutyrate] Films during Two-Step-Drawing: Generation Mechanism of Planar Zigzag Structure"  
T. Iwata, M. Fujita, Y. Aoyagi, Y. Doi, T. Fujisawa  
*Biomacromolecules*, **6**, (2005), 1803-1809
- [134] "Protonation-Induced Structural Change of Lyotropic Liquid Crystals in Oley- and Alkyldimethylamine Oxides/Water Systems"  
H. Kawasaki, T. Kawashima, S. Sasaki, A. Sasaki, R. Kakehashi, I. Yamashita, K. Fukada, T. Kato, H. Maeda  
*Langmuir*, **21**, (2005), 5731-5737
- [135] "Roles of Hydrophobic Interaction in a Volume Phase Transition of Alkylacrylamide Gel Induced by the Hydrogen-Bond-Driving Alkylphenol Binding"  
T. Kawashima, S. Koga, M. Annaka, S. Sasaki  
*The Journal of Physical Chemistry B*, **109**, (2005), 1055-1062
- [136] "Specific Collapse Followed by Slow Hydrogen Bond Formation of  $\beta$ -Sheet in the Folding of Single Chain Monellin"  
T. Kimura, T. Uzawa, K. Ishimori, I. Morishima, S. Takahashi, T. Konno, S. Akiyama, T. Fujisawa  
*Proceedings of the National Academy of Sciences of the United States of America*, **102**, (2005), 2748-2753
- [137] "Specifically Collapsed Intermediate in the Early Stage of the Folding of Ribonuclease A"  
T. Kimura, S. Akiyama, T. Uzawa, K. Ishimori, I. Morishima, T. Fujisawa, S. Takahashi  
*Journal of Molecular Biology*, **350**, (2005), 349-362
- [138] "A Novel Induced-fit Reaction Mechanism of Asymmetric Hot Dog Thioesterase Paal"  
N. Kunishima, Y. Asada, M. Sugahara, J. Ishijima, Y. Nodake, M. Sugahara, M. Miyano, S. Kuramitsu, S. Yokoyama, M. Sugahara  
*Journal of Molecular Biology*, **352**, (2005), 212-228
- [139] "Structure of P-protein of the Glycine Cleavage System: Implications for Nonketotic Hyperglycinemia"  
T. Nakai, N. Nakagawa, N. Maoka, R. Masui, S. Kuramitsu, N. Kamiya  
*The EMBO Journal*, **24**, (2005), 1523-1536
- [140] "Crystal Structure of Pyruvate Phosphate Dikinase from Maize Revealed an Alternative Conformation in the Swiveling-Domain Motion"  
T. Nakanishi, T. Nakatsu, M. Matsuoka, K. Sakata, H. Kato  
*Biochemistry*, **44**, (2005), 1136-1144
- [141] "Crystallization and Preliminary X-ray Crystallographic Analysis of Extracellular Giant Hemoglobin from Pogonophoran *Oligobrachia mashikoi*"  
N. Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki  
*Biochimica et Biophysica Acta*, **1750**, (2005), 103-117
- [142] "Structure of an Extracellular Giant Haemoglobin of the Gutless Beard Worm *Oligobrachia mashikoi*"  
N. Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki  
*Proceedings of the National Academy of Sciences of the United States of America*, **102**, (2005), 14521-14526
- [143] "Crystal Structures of the Signal Transducing Protein GlnK from *Thermus thermophilus* HB8"  
H. Sakai, H. Wang, C. Takemoto-Hori, T. Kaminishi, H. Yamaguchi, Y. Kamewari, T. Terada, S. Kuramitsu, M. Shirouzu, S. Yokoyama  
*Journal of Structural Biology*, **149**, (2005), 99-110
- [144] "Crystal Structure of the Histidine-Containing Phosphotransfer Protein ZmHP2 from Maize"  
H. Sugawara, Y. Kawano, T. Hatakeyama, T. Yamaya, N. Kamiya, H. Sakakibara  
*Protein Science*, **14**, (2005), 202-208
- [145] "Viscoelastic Effects on Dynamics of Concentration Fluctuations for Non-Entangled Polymer Mixture: Time-Resolved Synchrotron-SAXS Studies After Pressure-Jump"  
M. Takenaka, M. Miyazawa, S. Nishitsuji, T. Hashimoto  
*Progress in Colloid and Polymer Science*, **130**, (2005), 96-103
- [146] "Synchrotron Small-Angle X-ray Scattering of Relaxation Process in a Nonentangled Diblock Copolymer"  
M. Takenaka, M. Miyazawa, T. Miyajima, T. Hashimoto  
*Macromolecules*, **38**, (2005), 8481-8485

[2006]

- [147] "SAXS Studies on Structural Changes in a Poly(vinyl alcohol) Film during Uniaxial Stretching in Water"  
T. Miyazaki, A. Hoshiko, M. Akasaka, T. Shintani, S. Sakurai  
*Macromolecules*, **39**, (2006), 2921-2929
- [148] "Structural Basis for the Spectral Difference in Luciferase Bioluminescence"  
T. Nakatsu, S. Ichiyama, J. Hiratake, A. Saldanha, N. Kobashi, K. Sakata, H. Kato  
*Nature*, **440**, (2006), 372-376

[Contract Beamlines]

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**Refereed Journals**

[1998]

- [1] "SPRING-8 Beamlines for High Pressure Science with Multi-Anvil Apparatus"  
W. Utsumi, K. Funakoshi, S. Urakawa, M. Yamakata, K. Tsuji, H. Konishi, O. Shimomura  
*The Review of High Pressure Science and Technology*, **7**, (1998), 1484-1486
- [1999]
- [2] "Experimental Study of the Influence of Magnetic Phase Transition on the Mössbauer Time Spectra of the Nuclear Forward Scattering"  
T. Mitsui, S. Kitao, M. Seto, Y. Yoda, S. Kikuta  
*Journal of the Physical Society of Japan*, **68**, (1999), 4049-4050
- [2000]
- [3] "Measurement of Gas Bremsstrahlung at the SPRING-8 Insertion Device Beamline using PWO Scintillator"  
Y. Asano, T. Matsumura, R. Chiba, T. Hashimoto, A. Miura, H. Shimizu, Y. Tajima, H. Y. Yoshida  
*Nuclear Instruments and Methods in Physics Research Section A*, **451**, (2000), 685-696
- [4] "Nuclear Resonant Scattering of Synchrotron Radiation by  $^{121}\text{Sb}$  and  $^{149}\text{Sm}$ "  
S. Kitao, T. Mitsui, M. Seto  
*Journal of the Physical Society of Japan*, **69**, (2000), 683-685
- [5] "Nuclear Resonance Scattering of Synchrotron Radiation by  $^{40}\text{K}$ "  
M. Seto, S. Kitao, Y. Kobayashi, R. Haruki, T. Mitsui, Y. Yoda, X. Zhang, Y. Maeda  
*Physical Review Letters*, **84**, (2000), 566-569
- [2001]
- [6] "An Inelastic X-ray Scattering Spectrometer for Materials Science on BL11XU at SPRING-8"  
T. Inami, T. Fukuda, J. Mizuki, H. Nakao, T. Matsumura, Y. Murakami, K. Hirota, Y. Endoh  
*Nuclear Instruments and Methods in Physics Research Section A*, **467-468**, (2001), 1081-1083
- [7] "Diamond Double-Crystal Monochromator in Bragg Geometry Installed on BL-11XU at SPRING-8"  
M. Marushita, T. Mitsui, T. Fukuda, M. Takahashi, T. Inami, Y. Katayama, H. Shiwaku, J. Mizuki  
*Nuclear Instruments and Methods in Physics Research Section A*, **467-468**, (2001), 392-395
- [8] "The Experimental Apparatus for Synchrotron Radiation Mössbauer Spectroscopy of BL11 in SPRING-8"  
T. Mitsui, S. Kitao, X. W. Zhang, M. Marushita, M. Seto  
*Nuclear Instruments and Methods in Physics Research Section A*, **467-468**, (2001), 1105-1108
- [2002]
- [9] "Dynamics of Fe Cations in an  $\text{H}_2\text{SO}_4$  Solution by Nuclear Resonant Quasielastic Scattering"  
R. Haruki, M. Seto, S. Kitao, Y. Yoda, T. Mitsui, Yu. Maeda  
*Hyperfine Interactions*, **5**, (2002), 139-142
- [10] "Phase Relations of AgI under High Pressure and High Temperature"  
O. Ohtaka, H. Takebe, A. Yoshiasa, H. Fukui, Y. Katayama  
*Solid State Communications*, **123**, (2002), 213-216
- [11] "Local Structure of Molten  $\text{LaCl}_3$  by K-Absorption Edge XAFS"  
Y. Okamoto, H. Shiwaku, T. Yaita, H. Narita, H. Tanida  
*Journal of Molecular Structure*, **641**, (2002), 71-76
- [12] "Nuclear Resonant Inelastic and Forward Scattering of Synchrotron Radiation by  $^{40}\text{K}$ "  
M. Seto, S. Kitao, Y. Kobayashi, R. Haruki, T. Mitsui, Y. Yoda, X. W. Zhang, K. Kishimoto, Y. Maeda  
*Hyperfine Interactions*, **141/142**, (2002), 99-108
- [13] "X-Ray Diffractometer for Studies on Molecular-Beam-Epitaxy Growth of III-V Semiconductors"  
M. Takahashi, Y. Yoneda, H. Inoue, N. Yamamoto, J. Mizuki  
*Japanese Journal of Applied Physics*, **41**, (2002), 6247-6251