



Soichi Wakatsuki

Professor of Photon Science and of Structural Biology
Photon Science Directorate

CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Soichi Wakatsuki is a Professor of Photon Science at the SLAC National Accelerator Laboratory where he recently initiated the Biociences Division, and Professor of Structural Biology, Stanford School of Medicine. He received his B.S and M.S. degrees in Chemical Engineering from University of Tokyo, and his Ph.D. degree in Chemistry from Stanford University in 1991. After postdoctoral studies on time-resolved x-ray crystallography of enzyme reactions in Oxford (1990 to 1994), he moved to Grenoble, France in 1994 to work at the European Synchrotron Radiation Facility (ESRF) where he led Joint Structural Biology Group to develop high-brilliance x-ray crystallography beamlines and instruments, as well as several structural biology projects on protein transport. In 2000, Soichi moved back to Japan to start a new Structural Biology Research Center at KEK (High Energy Accelerator Research Organization), Tsukuba, Japan, and later served as Director of Photon Factory (national synchrotron radiation facility) from 2006 to 2012. There he further developed x-ray beamlines and a large scale protein crystallization system, led initiatives to start three national projects on structural proteomics. Fascinated by new research opportunities in integrative bioimaging at Stanford and the world's first hard x-ray free electron laser (XFEL) at SLAC, Soichi returned to Stanford in 2013. Soichi's research interests include structural biology of post-translational modification and vesicle transport, structural biology of polyubiquitin recognition, synchrotron radiation and XFEL instrumentation, protein crystallography and small angle X-ray scattering, integrative multi-scale bioimaging.

ACADEMIC APPOINTMENTS

- Professor, Photon Science Directorate
- Professor, Structural Biology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Stanford ChEM-H

ADMINISTRATIVE APPOINTMENTS

- Group Leader, Macromolecular Crystallography Group, ESRF (European Synchrotron Radiation Facility), (1999-2000)
- Director, Structural Biology Research Center, KEK (High Energy Accelerator Research Organization), (2003-2012)
- Division Head, Life Science Division, Synchrotron Radiation Research Organization, University of Tokyo, (2006-2008)
- Director, Photon Science, KEK (High Energy Accelerator Research Organization), (2006-2012)

- Associate Director, Institute of Materials Structure Science, KEK (High Energy Accelerator Research Organization), (2009-2012)
- Director of Biosciences Division, SLAC National Accelerator Laboratory, (2015- present)

HONORS AND AWARDS

- Prize for Science and Technology, by Minister of Education, Culture, Sports, Science and Technology, The Ministry of Education, Culture, Sports, Science and Technology, Japan (April 2011)
- The Research Award of Crystallographic Society of Japan, The Crystallographic Society of Japan (November 2006)
- Murata Overseas Studies Fellow, Murata Overseas Scholarship Foundation (1984-1987)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair of Science Advisory Committee, SOLEIL Synchrotron, France (2017 - present)
- Member of Scientific Advisory Board, Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory (2017 - present)
- Member of NSLS-II Science Advisory Committee, Brookhaven National Laboratory (2016 - present)
- Member of Scientific Leadership Council, Stanford Bio-X (2015 - present)
- Member of Committee of Visitors, Biological Systems Science Division, Biological and Environmental Research, Department of Energy (2014 - 2014)
- Section Editor of Acta Crystallographica D, Structural Biology, International Union of Crystallography (2013 - present)
- Member of Science Advisory Committee of Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory (2013 - 2015)
- Editorial Board Member of Current Opinions on Structural Biology, Elsevier (2012 - present)
- Member of Science Advisory Committee, National Synchrotron Radiation Research Center, Taiwan (NSRRC) (2011 - 2014)

PROFESSIONAL EDUCATION

- B.S., University of Tokyo , Chemical Engineering (1982)
- M.S., University of Tokyo , Chemical Engineering (1984)
- Ph.D., Stanford University , Chemistry (1991)

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Weijiang Zhou

Doctoral Dissertation Advisor (AC)

Ponan Li

Doctoral Dissertation Reader (NonAC)

Yanyan Zhao

Publications

PUBLICATIONS

- **Four amino acids define the CO₂ binding pocket of enoyl-CoA carboxylases/reductases.** *Proceedings of the National Academy of Sciences of the United States of America*
Stoffel, G. M., Saez, D. A., DeMirici, H., Vogeli, B., Rao, Y., Zarzycki, J., Yoshikuni, Y., Wakatsuki, S., Vohringer-Martinez, E., Erb, T. J.
2019
- **Serial Femtosecond X-Ray Diffraction of HIV-1 Gag MA-IP6 Microcrystals at Ambient Temperature.** *International journal of molecular sciences*
I Ciftci, H., G Sierra, R., Yoon, C. H., Su, Z., Tateishi, H., Koga, R., Kotaro, K., Yumoto, F., Senda, T., Liang, M., Wakatsuki, S., Otsuka, M., Fujita, et al
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- **The Macromolecular Femtosecond Crystallography Instrument at the Linac Coherent Light Source** *JOURNAL OF SYNCHROTRON RADIATION*
Sierra, R. G., Batyuk, A., Sun, Z., Aquila, A., Hunter, M. S., Lane, T. J., Liang, M., Yoon, C., Alonso-Mori, R., Armenta, R., Castagna, J., Hollenbeck, M., Osier, et al
2019; 26: 346–57
- **Protein Self-Assembly Drives Surface Layer Biogenesis and Maintenance in *C. crescentus***
Herrmann, J., Comerci, C., Yoon, J., Jabbarpour, F., Shapiro, L., Wakatsuki, S., Moerner, W. E.
CELL PRESS.2019: 159A
- **Multi-Step 2D Protein Crystallization via Structural Changes within an Ordered Lattice**
Herrmann, J., Comerci, C. J., Jabbarpour, F., Shapiro, L., Moerner, W. E., Wakatsuki, S.
CELL PRESS.2019: 194A
- **Molecular Recognition of M1-Linked Ubiquitin Chains by Native and Phosphorylated UBAN Domains.** *Journal of molecular biology*
Herhaus, L., van den Bedem, H., Tang, S., Maslennikov, I., Wakatsuki, S., Dikic, I., Rahighi, S.
2019
- **Topologically-guided continuous protein crystallization controls bacterial surface layer self-assembly.** *Nature communications*
Comerci, C. J., Herrmann, J., Yoon, J., Jabbarpour, F., Zhou, X., Nomellini, J. F., Smit, J., Shapiro, L., Wakatsuki, S., Moerner, W. E.
2019; 10 (1): 2731
- **Small-Molecule Activators of Glucose-6-phosphate Dehydrogenase (G6PD) Bridging the Dimer Interface.** *ChemMedChem*
Raub, A., Hwang, S., Horikoshi, N., Cunningham, A., Rahighi, S., Wakatsuki, S., Mochly-Rosen, D.
2019
- **Correcting glucose-6-phosphate dehydrogenase deficiency with a small-molecule activator.** *Nature communications*
Hwang, S., Mruk, K., Rahighi, S., Raub, A. G., Chen, C., Dorn, L. E., Horikoshi, N., Wakatsuki, S., Chen, J. K., Mochly-Rosen, D.
2018; 9 (1): 4045
- **Structure of the 30S ribosomal decoding complex at ambient temperature.** *RNA (New York, N.Y.)*
Dao, E. H., Poitevin, F., Sierra, R. G., Gati, C., Rao, Y., Ciftci, H. I., Aksit, F., McGurk, A., Obrinski, T., Mgbam, P., Hayes, B., DE Lichtenberg, C., Pardo-Avila, et al
2018
- **Two-Color Sted Microscopy to Visualize S-Layer Biogenesis in *Caulobacter Crescentus***
Comerci, C. J., Herrmann, J., Shapiro, L., Wakatsuki, S., Moerner, W. E.
CELL PRESS.2018: 613A
- **Cryo Electron Tomography and Reaction-Diffusion Simulations Reveal a Molecular and Evolutionary Basis for Charged Archaeal Surface Layer Proteins**
Li, P., Herrmann, J. R., Poitevin, F. B., Ramdasi, R., Tolar, B. B., Barger, J., Stahl, D., Jensen, G., Wakatsuki, S., van den Bedem, H.
CELL PRESS.2018: 495A
- **Environmental Calcium Controls Alternate Physical States of the *Caulobacter* Surface Layer**
Herrmann, J., Smit, J., Shapiro, L., Wakatsuki, S.
CELL PRESS.2018: 404A
- **Nutrient transport suggests an evolutionary basis for charged archaeal surface layer proteins.** *The ISME journal*
Li, P. N., Herrmann, J., Tolar, B. B., Poitevin, F., Ramdasi, R., Bargar, J. R., Stahl, D. A., Jensen, G. J., Francis, C. A., Wakatsuki, S., van den Bedem, H.
2018
- **Environmental Calcium Controls Alternate Physical States of the *Caulobacter* Surface Layer** *BIOPHYSICAL JOURNAL*
Herrmann, J., Jabbarpour, F., Bargar, P. G., Nomellini, J. F., Li, P., Lane, T. J., Weiss, T. M., Smit, J., Shapiro, L., Wakatsuki, S.
2017; 112 (9): 1841-1851
- **Phosphorylation of the mitochondrial autophagy receptor Nix enhances its interaction with LC3 proteins** *SCIENTIFIC REPORTS*
Rogov, V. V., Suzuki, H., Marinkovic, M., Lang, V., Kato, R., Kawasaki, M., Buljubasic, M., Sprung, M., Rogova, N., Wakatsuki, S., Hamacher-Brady, A., Doetsch, V., Dikic, et al
2017; 7
- **Se-SAD serial femtosecond crystallography datasets from selenobiotinyl-streptavidin** *SCIENTIFIC DATA*

- Yoon, C. H., Demirci, H., Sierra, R. G., Dao, E. H., Ahmadi, R., Aksit, F., Aquila, A. L., Batyuk, A., Ciftci, H., Guillet, S., Hayes, M. J., Hayes, B., Lane, et al
2017; 4
- **Responses to 'Atomic resolution': a badly abused term in structural biology** *ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY*
Chiu, W., Holton, J., Langan, P., Sauter, N. K., Schlichting, I., Terwilliger, T., Martin, J. L., Read, R. J., Wakatsuki, S.
2017; 73: 381-383
 - **Structural and functional analysis of the GABARAP interaction motif (GIM).** *EMBO reports*
Rogov, V. V., Stolz, A., Ravichandran, A. C., Rios-Szwed, D. O., Suzuki, H., Kniss, A., Löhr, F., Wakatsuki, S., Dötsch, V., Dikic, I., Dobson, R. C., McEwan, D. G.
2017; 18 (8): 1382-96
 - **Integrated structural biology and molecular ecology of N-cycling enzymes from ammonia-oxidizing archaea.** *Environmental microbiology reports*
Tolar, B. B., Herrmann, J., Bargar, J. R., van den Bedem, H., Wakatsuki, S., Francis, C. A.
2017; 9 (5): 484-91
 - **Selenium single-wavelength anomalous diffraction de novo phasing using an X-ray-free electron laser.** *Nature communications*
Hunter, M. S., Yoon, C. H., Demirci, H., Sierra, R. G., Dao, E. H., Ahmadi, R., Aksit, F., Aquila, A. L., Ciftci, H., Guillet, S., Hayes, M. J., Lane, T. J., Liang, et al
2016; 7: 13388-?
 - **A novel mode of ubiquitin recognition by the ubiquitin-binding zinc finger domain of WRNIP1** *FEBS JOURNAL*
Suzuki, N., Rohaim, A., Kato, R., Dikic, I., Wakatsuki, S., Kawasaki, M.
2016; 283 (11): 2004-2017
 - **Selective Binding of AIRAPL Tandem UIMs to Lys48-Linked Tri-Ubiquitin Chains** *STRUCTURE*
Rahighi, S., Braunstein, I., Ternette, N., Kessler, B., Kawasaki, M., Kato, R., Matsui, T., Weiss, T. M., Stanhill, A., Wakatsuki, S.
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 - **Expanding beyond biological crystallography.** *Acta crystallographica. Section D, Structural biology*
Martin, J. L., Read, R. J., Wakatsuki, S.
2016; 72: 1-?
 - **The New Macromolecular Femtosecond Crystallography (MFX) Instrument at LCLS.** *Synchrotron radiation news*
Boutet, S., Cohen, A., Wakatsuki, S.
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 - **The linac coherent light source single particle imaging road map** *STRUCTURAL DYNAMICS*
Aquila, A., Barty, A., Bostedt, C., Boutet, S., Carini, G., Deponte, D., DRELL, P., Doniach, S., Downing, K. H., Earnest, T., Elmlund, H., Elser, V., Guehr, et al
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 - **Gliotoxin Suppresses NF-kappa B Activation by Selectively Inhibiting Linear Ubiquitin Chain Assembly Complex (LUBAC)** *ACS CHEMICAL BIOLOGY*
Sakamoto, H., Egashira, S., Saito, N., Kirisako, T., Miller, S., Sasaki, Y., Matsumoto, T., Shimonishi, M., Komatsu, T., Terai, T., Ueno, T., Hanaoka, K., Kojima, et al
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 - **High-intensity double-pulse X-ray free-electron laser** *NATURE COMMUNICATIONS*
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 - **PLEKHM1 Regulates Autophagosome-Lysosome Fusion through HOPS Complex and LC3/GABARAP Proteins** *MOLECULAR CELL*
McEwan, D. G., Popovic, D., Gubas, A., Terawaki, S., Suzuki, H., Stadel, D., Coxon, F. P., de Stegmann, D. M., Bhogaraju, S., Maddi, K., Kirchof, A., Gatti, E., Helfrich, et al
2015; 57 (1): 39-54
 - **Structural Analysis of the Complex between Penta-EF-Hand ALG-2 Protein and Sec31A Peptide Reveals a Novel Target Recognition Mechanism of ALG-2.** *International journal of molecular sciences*
Takahashi, T., Kojima, K., Zhang, W., Sasaki, K., Ito, M., Suzuki, H., Kawasaki, M., Wakatsuki, S., Takahara, T., Shibata, H., Maki, M.
2015; 16 (2): 3677-3699
 - **Demonstration of Single-Crystal Self-Seeded Two-Color X-Ray Free-Electron Lasers** *PHYSICAL REVIEW LETTERS*

- Lutman, A. A., Decker, F., ARTHUR, J., Chollet, M., Feng, Y., Hastings, J., Huang, Z., Lemke, H., Nuhn, H., Marinelli, A., Turner, J. L., Wakatsuki, S., Welch, et al
2014; 113 (25)
- **Goniometer-based femtosecond crystallography with X-ray free electron lasers** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Cohen, A. E., Soltis, S. M., Gonzalez, A., Aguila, L., Alonso-Mori, R., Barnes, C. O., Baxter, E. L., Brehmer, W., Brewster, A. S., Brunger, A. T., Calero, G., Chang, J. F., Chollet, et al
2014; 111 (48): 17122-17127
 - **Mechanism Underlying I kappa B Kinase Activation Mediated by the Linear Ubiquitin Chain Assembly Complex** *MOLECULAR AND CELLULAR BIOLOGY*
Fujita, H., Rahighi, S., Akita, M., Kato, R., Sasaki, Y., Wakatsuki, S., Iwai, K.
2014; 34 (7): 1322-1335
 - **Expanded potential of seleno-carbohydrates as a molecular tool for X-ray structural determination of a carbohydrate-protein complex with single/multi-wavelength anomalous dispersion phasing.** *Bioorganic & medicinal chemistry*
Suzuki, T., Makyio, H., Ando, H., Komura, N., Menjo, M., Yamada, Y., Imamura, A., Ishida, H., Wakatsuki, S., Kato, R., Kiso, M.
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 - **Tuning Mechanism- Based Inactivators of Neuraminidases: Mechanistic and Structural Insights** *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*
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2014; 53 (13): 3382-3386
 - **Structural Basis of the Autophagy-Related LC3/Atg13 LIR Complex: Recognition and Interaction Mechanism** *STRUCTURE*
Suzuki, H., Tabata, K., Morita, E., Kawasaki, M., Kato, R., Dobson, R. C., Yoshimori, T., Wakatsuki, S.
2014; 22 (1): 47-58
 - **Improvement of an automated protein crystal exchange system PAM for high-throughput data collection** *JOURNAL OF SYNCHROTRON RADIATION*
Hiraki, M., Yamada, Y., Chavas, L. M., Wakatsuki, S., Matsugaki, N.
2013; 20: 890-893
 - **Improvements toward highly accurate diffraction experiments at the macromolecular micro-crystallography beamline BL-17A** *JOURNAL OF SYNCHROTRON RADIATION*
Yamada, Y., Chavas, L. M., Igarashi, N., Hiraki, M., Wakatsuki, S., Matsugaki, N.
2013; 20: 938-942
 - **Structural basis for phosphorylation-triggered autophagic clearance of Salmonella.** *Biochemical journal*
Rogov, V. V., Suzuki, H., Fiskin, E., Wild, P., Kniss, A., Rozenknop, A., Kato, R., Kawasaki, M., McEwan, D. G., Löhr, F., Güntert, P., Dikic, I., Wakatsuki, et al
2013; 454 (3): 459-466
 - **Structural basis for phosphorylation-triggered autophagic clearance of Salmonella** *BIOCHEMICAL JOURNAL*
Rogov, V. V., Suzuki, H., Fiskin, E., Wild, P., Kniss, A., Rozenknop, A., Kato, R., Kawasaki, M., McEwan, D. G., Loehr, F., Güntert, P., Dikic, I., Wakatsuki, et al
2013; 454: 459-466
 - **Structures of an ATP-independent Lon-like protease and its complexes with covalent inhibitors** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
Liao, J., Ihara, K., Kuo, C., Huang, K., Wakatsuki, S., Wu, S., Chang, C.
2013; 69: 1395-1402
 - **Structural basis of preferential binding of fucose-containing saccharide by the Caenorhabditis elegans galectin LEC-6** *GLYCOBIOLOGY*
Makyio, H., Takeuchi, T., Tamura, M., Nishiyama, K., Takahashi, H., Natsugari, H., Arata, Y., Kasai, K., Yamada, Y., Wakatsuki, S., Kato, R.
2013; 23 (7): 797-805
 - **Direct metal recognition by guanine nucleotide-exchange factor in the initial step of the exchange reaction** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
Uejima, T., Ihara, K., Sunada, M., Kawasaki, M., Ueda, T., Kato, R., Nakano, A., Wakatsuki, S.
2013; 69: 345-351
 - **Structural switching of Cu,Zn-superoxide dismutases at loop VI: insights from the crystal structure of 2-mercaptoethanol-modified enzyme** *BIOSCIENCE REPORTS*

- Ihara, K., Fujiwara, N., Yamaguchi, Y., Torigoe, H., Wakatsuki, S., Taniguchi, N., Suzuki, K.
2012; 32 (6): 539-548
- **Crystal sample pins and a storage cassette system compatible with the protein crystallography beamlines at both the Photon Factory and Spring-8** *JOURNAL OF APPLIED CRYSTALLOGRAPHY*
Fujihashi, M., Hiraki, M., Ueno, G., Baba, S., Murakami, H., Suzuki, M., Watanabe, N., Tanaka, I., Nakagawa, A., Wakatsuki, S., Yamamoto, M., Miki, K.
2012; 45: 1156-1161
 - **International Workshop on Improving Data Quality and Quantity for XAFS Experiments (Q2XAFS 2011)** *JOURNAL OF SYNCHROTRON RADIATION*
Ascone, I., Asakura, K., George, G. N., Wakatsuki, S.
2012; 19: 849-850
 - **Frontiers and challenges of biophysical methods: from computational biology to X-ray free electron laser.** *Current opinion in structural biology*
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2012; 22 (5): 591-593
 - **Structural Basis for Membrane Binding Specificity of the Bin/Amphiphysin/Rvs (BAR) Domain of Arfaptin-2 Determined by Arl1 GTPase** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Nakamura, K., Man, Z., Xie, Y., Hanai, A., Makyio, H., Kawasaki, M., Kato, R., Shin, H., Nakayama, K., Wakatsuki, S.
2012; 287 (30): 25478-25489
 - **Structural basis for Arf6-MKLP1 complex formation on the Flemming body responsible for cytokinesis** *EMBO JOURNAL*
Makyio, H., Ohgi, M., Takei, T., Takahashi, S., Takatsu, H., Katoh, Y., Hanai, A., Ueda, T., Kanaho, Y., Xie, Y., Shin, H., Kamikubo, H., Kataoka, et al
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 - **S-SAD phasing study of death receptor 6 and its solution conformation revealed by SAXS** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
Ru, H., Zhao, L., Ding, W., Jiao, L., Shaw, N., Liang, W., Zhang, L., Hung, L., Matsugaki, N., Wakatsuki, S., Liu, Z.
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 - **Beamline AR-NW12A: high-throughput beamline for macromolecular crystallography at the Photon Factory** *JOURNAL OF SYNCHROTRON RADIATION*
Chavas, L. M., Matsugaki, N., Yamada, Y., Hiraki, M., Igarashi, N., Suzuki, M., Wakatsuki, S.
2012; 19: 450-454
 - **Structural basis of the strict phospholipid binding specificity of the pleckstrin homology domain of human evectin-2** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
Okazaki, S., Kato, R., Uchida, Y., Taguchi, T., Arai, H., Wakatsuki, S.
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 - **Structure of a compact conformation of linear diubiquitin** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
Rohaim, A., Kawasaki, M., Kato, R., Dikic, I., Wakatsuki, S.
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 - **Intracellular phosphatidylserine is essential for retrograde membrane traffic through endosomes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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 - **Improved Inactivation Effect of Bacteria: Fabrication of Mesoporous Anatase Films with Fine Ag Nanoparticles Prepared by Coaxial Vacuum Arc Deposition** *CHEMISTRY LETTERS*
Oveisi, H., Rahighi, S., Jiang, X., Agawa, Y., Beitollahi, A., Wakatsuki, S., Yamauchi, Y.
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 - **UV LED lighting for automated crystal centring** *JOURNAL OF SYNCHROTRON RADIATION*
Chavas, L. M., Yamada, Y., Hiraki, M., Igarashi, N., Matsugaki, N., Wakatsuki, S.
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 - **Selective Binding of Linear Ubiquitin Chains to NEMO in NF-kappaB Activation** *12th Biennial International Tumor Necrosis Factor Conference*
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Uejima, T., Ihara, K., Goh, T., Ito, E., Sunada, M., Ueda, T., Nakano, A., Wakatsuki, S.
2010; 285 (47): 36689-36697
- **Advances in biophysical methods: characterisation and visualization of molecules, cells and organism** *CURRENT OPINION IN STRUCTURAL BIOLOGY*
Hasnain, S. S., Wakatsuki, S.
2010; 20 (5): 584-586
- **Crystallization of small proteins assisted by green fluorescent protein** *ACTA CRYSTALLOGRAPHICA SECTION D-BIOLOGICAL CRYSTALLOGRAPHY*
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2010; 5 (9): 1978-1983
- **Molecular basis for defect in Alix-binding by alternatively spliced isoform of ALG-2 (ALG-2(Delta GF122)) and structural roles of F122 in target recognition** *BMC STRUCTURAL BIOLOGY*
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2010; 10
- **Advancement of Synchrotron Radiation Protein Crystallography Aimed by the Targeted Protein Research Program: Beamline Developments at the Photon Factory** *YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN*
Wakatsuki, S., Yamada, Y., Chavas, L. M., Igarashi, N., Kawasaki, M., Kato, R., Hiraki, M., Matsugaki, N.
2010; 130 (5): 631-640
- **Complexity in Influenza Virus Targeted Drug Design: Interaction with Human Sialidases** *JOURNAL OF MEDICINAL CHEMISTRY*
Chavas, L. M., Kato, R., Suzuki, N., von Itzstein, M., Mann, M. C., Thomson, R. J., Dyason, J. C., McKimm-Breschkin, J., Fusi, P., Tringali, C., Venerando, B., Tettamanti, G., Monti, et al
2010; 53 (7): 2998-3002
- **Structural basis for the cooperative interplay between the two causative gene products of combined factor V and factor VIII deficiency** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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2010; 107 (9): 4034-4039
- **Crystal Structures of the CERT START Domain with Inhibitors Provide Insights into the Mechanism of Ceramide Transfer** *JOURNAL OF MOLECULAR BIOLOGY*
Kudo, N., Kumagai, K., Matsubara, R., Kobayashi, S., Hanada, K., Wakatsuki, S., Kato, R.
2010; 396 (2): 245-251
- **Crystal Structure of UbcH5b similar to Ubiquitin Intermediate: Insight into the Formation of the Self-Assembled E2 similar to Ub Conjugates** *STRUCTURE*
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- **Ubiquitin-binding domains - from structures to functions** *NATURE REVIEWS MOLECULAR CELL BIOLOGY*
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