

## List of papers and invited oral talks

Paper list: Daisuke Kohda (1983 - Dec 2023)

1. [Kohda D](#), Hara M, Yokoyama S, Miyazawa T. Aminoacyl-tRNA synthetases from an extreme thermophile, *Thermus thermophilus* HB8. Nucleic Acids Symp Ser.1983;(12):153-4. PMID: 6664850.
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3. [Kohda D](#), Yokoyama S, Miyazawa T. Functions of isolated domains of methionyl-tRNA synthetase from an extreme thermophile, *Thermus thermophilus* HB8. J Biol Chem. 1987 Jan 15;262(2):558-63. PMID: 3542990.
4. Inagaki F, [Kohda D](#), Kodama C, Suzuki A. Analysis of NMR spectra of sugar chains of glycolipids by multiple relayed COSY and 2D homonuclear Hartman-Hahn spectroscopy. FEBS Lett. 1987 Feb 9;212(1):91-7. doi:10.1016/0014-5793(87)81563-6. PMID: 3803612.5
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11. Hanzawa H, Shimada I, Kuzuhara T, Komano H, [Kohda D](#), Inagaki F, Natori S, Arata Y. <sup>1</sup>H nuclear magnetic resonance study of the solution conformation of an antibacterial protein, sapecin. FEBS Lett. 1990 Sep 3;269(2):413-20. doi:10.1016/0014-5793(90)81206-4. PMID: 2401368.13
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146. [Kohda D](#), Hayashi S, Fujinami D. Residue-based correlation between equilibrium and rate constants is an experimental formulation of the consistency principle for smooth structural changes of proteins. *Biophysics and Physicobiology*. 2023 Dec 27;20(4):e200046. doi: 10.2142/biophysico.bppb-v20.0046.

147. Kawamukai H, Takishita S, Shimizu K, Kohda D, Ishimori K, Saio T. Conformational Distribution of a Multi-Domain Protein Measured by Single-Pair Small Angle X-Ray Scattering. *J Phys Chem Lett. in press.*
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Invited oral talks (June 2002 – Mar 2024)

1. D. Kohda (June 5, 2002)  
Structure and Function of PX and SH3 Domains in the NADPH Oxidase System  
the 2<sup>nd</sup> Tsinghua International Conference of Protein Science, Beijing, China.
2. D. Kohda (Dec 15-16, 2003)  
From structure to function of PX domains in the NADPH oxidase system  
the 11th Hot Spring Harbor Symposium of Medical Institute of Bioregulation, Kyushu University Joint with the 21st century COE program, Japan and the Kyushu University P&P. "From Genomes to Medicine", Fukuoka, Japan
3. Daisuke Kohda (Jan 26-27, 2004)  
Cracking of the targeting signal embedded in mitochondrial presequences by NMR and crystallography  
CREST international symposium, Frontier of Biological NMR Spectroscopy  
Senri Life Science Center, Osaka, Japan
4. Daisuke Kohda (Mar 23-25, 2004)  
Cracking of the targeting signal embedded in mitochondrial presequences by NMR and crystallography  
UK-Japan Structural Genomics Conference, Whither Structural Genomics? A UK/Japan Symposium, Oxford, UK
5. D. Kohda (Aug 23-31, 2005)  
Cracking of the targeting signal embedded in mitochondrial presequences  
the XXth Congress of the International Union of Crystallography, Florence, Italy
6. D. Kohda (Oct 30-31, 2006)  
Recognize not to discriminate: mechanism of nonselective base recognition of 3'-terminus of DNA by PriA protein.  
The 2nd Sapporo Conference 2006; New Trend in Structural Biology, Sapporo, Japan
7. Daisuke Kohda (Mar 30-31, 2007)  
Relaxation study reveals a dual-mode interaction mechanism for mitochondrial presequence recognition by Tom20.  
International Workshop on Perspectives on stable isotope aided NMR methods for protein structural analysis, Osaka, Japan
8. D Kohda (Jan 25-26, 2008)  
Structure-guided identification of a new catalytic motif of oligosaccharyltransferase.  
Fukuoka Symposium on Molecular Soft Interactions at Biomembrane Interface, Fukuoka, Japan
9. Daisuke Kohda (Oct 25-28, 2009)  
Tom20 recognizes mitochondrial presequences through dynamic equilibrium among multiple bound states – Complex stabilization with molecular tethering and stiffening –  
the 3rd Asia-Pacific NMR Symposium, Jeju Island, Korea

10. Daisuke Kohda (Feb 24, 2010)  
Tom20 recognizes mitochondrial presequences through dynamic equilibrium among multiple bound states – Complex stabilization with molecular tethering and stiffening –  
The 5th Global COE International Symposium Cell Cycle and Differentiation, Singapore
11. Daisuke Kohda (June 25, 2010)  
Comparative structural biology of oligosaccharyltransferase: an enzyme that catalyzes the glycosylation of the Asn-X-Ser/Thr sequon –  
The Joint Symposium of the 5th International Symposium of Institutes Network and the International Symposium Commemorating Inauguration of Kanazawa University Cancer Research Institute, Kanazawa, Japan
12. M. Igura, N. Maita, J. Nyirenda, S. Matsumoto, D. Kohda (Aug 1-6, 2010)  
Comparative structural biology of oligosaccharyltransferase: an enzyme that catalyzes the glycosylation of the Asn-X-Ser/Thr sequon  
The 25th International Carbohydrate Symposium, Tokyo, Japan
13. Daisuke Kohda (May 22-26, 2011)  
Comparative structural biology of archaeal and eubacterial oligosaccharyltransferases  
the IX European Symposium of The Protein Society “Wonders and Disasters of the Protein World”, Stockholm, Sweden
14. Daisuke Kohda (Aug 22-23, 2011)  
Comparative Structural Biology of Eubacterial and Archaeal Oligosaccharyltransferases  
Kyushu University – National University of Singapore Bilateral Workshop, Fukuoka, Japan
15. Daisuke Kohda (Oct 16-19, 2011)  
A combined NMR and crystallography approach for analyzing the promiscuous recognition of peptidic ligands by proteins  
The 4th APNMR Symposium, Beijing, China
16. Daisuke Kohda (Oct 12-14, 2011)  
Comparative Structural Biology of Oligosaccharyltransferases  
The 71st Okazaki Conference on "New perspectives on molecular science of glycoconjugates", Okazaki, Japan
17. Daisuke Kohda (Dec 22, 2011)  
Crystallographic and NMR evidence for flexibility in the C-terminal globular domain of oligosaccharyltransferases and its catalytic significance  
The 10th Global COE International Symposium on Biochemistry and Cell Biology, Singapore
18. Daisuke Kohda (Nov 29, 2012)  
Structural biology of the N-glycosylation reaction  
The 20th Anniversary of the Mizutani Foundation for Glycosciences, Tokyo
19. Daisuke Kohda (Feb 7, 2014)  
Intentional creation of crystal-contact free space for analyzing large amplitude motions in protein crystals  
International Symposium between Kyushu U. Post Global COE and School of Biomedical Sciences, Monash U., Melbourne, Australia
20. Daisuke Kohda (Sep 20-22, 2014)

Structural and dynamic basis for mitochondrial presequence recognition by Tom20  
ISN 2014 Special Neurochemistry Conference, Tokyo

21. Rei Matsuoka, Daisuke Kohda (Sep 29-30, 2014)  
Structural and dynamic basis for mitochondrial presequence recognition by Tom20  
The 5th Japan-Taiwan bilateral NMR symposium, Sapporo, Japan
22. Daisuke Kohda (Nov16-19, 2014)  
Crystal structures of an archaeal oligosaccharyltransferase provide insights into the catalytic cycle of N-linked protein glycosylation  
2014 SFG & JSCR joint annual meeting, "Integrating Glycosciences from biology and chemistry to medicine", Honolulu, Hawaii, USA
23. Daisuke Kohda (Aug 13-16, 2015)  
Integrative structural biology approach to understand the structural and dynamical basis of Asn-glycosylation  
the 6th Asia-Pacific NMR Symposium (APNMR6), Hong Kong
24. Daisuke Kohda (Aug 25, 2016)  
Opening remark for a special session in memory of Prof. Fuyuhiko Inagaki  
XXVIIth International Conference on Magnetic Resonance in Biological Systems (ICMRBS), Kyoto.
25. Daisuke Kohda (Nov 13-14, 2015)  
Application of "crystal contact-free space" to the study of protein dynamics  
The 25th Hot Spring Harbor International Symposium, "Cutting Edge of Technical Innovations in Structural and Systems Biology", Fukuoka
26. Daisuke Kohda (Oct 7, 2016)  
Integrative structural biology approach to decipher the molecular mechanism of Asn-glycosylation  
The 42nd Naito Conference, "In the Vanguard of Structural Biology: Revolutionizing Life Sciences", Sapporo.
27. Daisuke Kohda (Mar 22, 2017)  
Integrative Structural Biology Approach to Understand the Structural and Dynamic Basis of Asn-Glycosylation  
The 10th Anniversary of Protein & Peptide Conference (PepCon-2017), Fukuoka (Hilton Fukuoka Sea Hawk)
28. Daisuke Kohda (Oct 15, 2017)  
Archaeal Glycobiology by MS and NMR  
2017 Taiwan-Japan Biomedical Symposium on Magnetic Resonance, Tainan, Taiwan
29. Daisuke Kohda (Dec 6-7, 2017)  
Integrative Structural Biology Approach to Understand the Structural and Dynamic Basis of Asn-Glycosylation  
NSRRC\_IPR\_symposium at National Synchrotron Radiation Research Center, Hsinchu, Taiwan
30. Daisuke Kohda (Mar 22-23, 2018)  
Integrative Structural Biology Approach to Understand the Structural and Dynamic Basis of Asn-Glycosylation  
The Japanese Biochemical Society Bio-Frontier Symposium "International Symposium on ER stress, glycosylation, homeostasis and diseases", Wako, Saitama

31. Daisuke Kohda. (July 4, 2019)  
The lantibiotic nukacin ISK-1 exists in an equilibrium between active and inactive lipid-II binding states  
8th Asia-Pacific NMR Symposium 2019, Singapore.
32. Daisuke Kohda (Jan 22, 2021)  
Integrative structural biology approach to understand the molecular mechanism of Asn-glycosylation  
The 5th Symposium of the Inter-University Research Network for Trans-Omics Medicine, "The Future of Trans-Omics in the Age of COVID-19", Tokyo (Zoom)
33. Daisuke Kohda (Nov 2, 2023)  
Residue-based correlation between equilibrium and rate constants is an experimental formulation of the physicochemical basis for smooth structural formation of proteins (special lecture, 3PL01)  
96th Annual meeting of the Japanese Biochemical Society, Fukuoka
34. Daisuke Kohda, Seiichiro Hayashi, Daisuke Fujinami (Feb 29, 2024)  
Residue-based correlation between equilibrium and rate constants is an experimental formulation of the physicochemical basis for smooth structural formation of proteins  
The 7th bilateral Taiwan-Japan NMR Symposium, Hiroshima