

## 発表論文

1. Ikeda M., Kihara A., Denpoh A., Igarashi Y.  
The Rim101 pathway is involved in Rsb1 expression induced by altered lipid asymmetry.  
*Mol. Biol. Cell.*, **19**, 1922-31 (2008).
2. Machida T., Hamaya Y., Izumi S., Hamaya Y., Iizuka K., Igarashi Y., Minami M., Levi R., Hirafuji M.  
Sphingosine 1-phosphate Inhibits Nitric Oxide Production induced by Interleukin-1 in Rat Vascular Smooth Muscle Cells.  
*Journal of Pharmacology And Experimental Therapeutics.*, **321**, 200-9 (2008).
3. Date T., Mitsutake S., Igarashi Y.  
Ceramide kinase expression is altered during macrophage-like cell differentiation of the leukemia cell line HL-60  
*In Vitro Cellular & Developmental Biology - Animal*, **43**, 321-3 (2007).
4. Mitsutake S., Yokose U., Kato M., Matsuoka I., Yoo LM., Kim TJ., Yoo HS., Fujimoto K., Ando Y., Sugiura M., Kohama T., Igarashi Y.  
The generation and behavioral analysis of ceramide kinase-null mice, indicating a function in cerebellar Purkinje cells.  
*Biochem Biophys Res Commun.*, **363**, 519-24 (2007).
5. Kabayama K., Saito T., Saito K., Loberto N., Prinetti A., Sonnino S., Kinjo M., Igarashi Y., Inokuchi JI.  
Dissociation of the insulin receptor and caveolin-1 complex by ganglioside GM3 in the state of insulin resistance.  
*Proc Natl Acad Sci U S A.*, **104**, 13678-83 (2007).
6. Iwaki S., Sano T., Takagi T., Osumi M., Kihara A., and Igarashi Y.  
Intracellular trafficking pathway of yeast long-chain base kinase Lcb4, from its synthesis to its degradation.  
*J. Biol. Chem.*, **282**, 28485-92 (2007).
7. Noguchi M., Suzuki T., Kabayama K., Takahashi H., Chiba H., Shiratori M., Abe S., Watanabe A., Satoh M., Hasegawa T., Tagami S., Ishii A., Saito M., Kaneko M., Iseki K., Igarashi Y., Inokuchi J.  
GM3 synthase gene is a novel biomarker for histological classification and drug sensitivity against epidermal growth factor receptor tyrosine kinase inhibitors in non-small cell lung cancer.  
*Cancer Science.*, **98**, 1625-32 (2007).
8. Kumada H., Mitsutake M., Igarashi Y.  
Kinetics of the ceramide kinase inhibitor K1, a suppressor of mast cell activation.  
*Biosci. Biotech. Biochem.*, **71**, 2581-4 (2007).
9. Mitsutake M., Igarashi Y.  
Transbilayer movement of ceramide in the plasma membrane of live cells.  
*Biochem Biophys Res Commun.*, **359**, 622-7 (2007).
10. Kasahara K., Nakayama Y., Kihara A., Matsuda D., Ikeda K., Kuga T., Fukumoto Y., Igarashi Y., Yamaguchi N.  
Rapid trafficking of c-Src, a non-palmitoylated Src-family kinase, between the plasma membrane and late endosomes/lysosomes.  
*Exp. Cell Res.*, **313**, 2651-66 (2007).
11. Anada Y., Igarashi Y., Kihara A.  
The immunomodulator FTY720 is phosphorylated and released from platelets.  
*Eur J Pharm.*, **568**, 106-11 (2007).
12. Nodai A., Machida T., Izumi S., Hamaya Y., Kohno T., Igarashi Y., Iizuka K., Minami M., Hirafuji M.  
Sphingosine 1-phosphate induces cyclooxygenase-2 via Ca2+-dependent, but MAPK-independent mechanism in rat vascular smooth muscle cells.  
*Life Sci.*, **80**, 1768-76 (2007).
13. Nagashima I., Shimizu H., Matsushita T., Nishimura S.-I.  
Chemical and enzymatic synthesis of neoglycolipids in the presence of cyclodextrins  
*Tetrahedron Lett.*, **49**, 3413-8 (2008).
14. Deguchi K., Keira T., Yamada K., Ito H., Takegawa Y., Nakagawa H., Nishimura S.-I.  
Two-dimentional hydrophilic interaction chromatography coupling anion exchange and hydrophilic interaction columns for separation of 2-pyridylamino derivatives of neutral and sialylated N-glycans  
*J. Chromatogr. A.*, **1189**, 169-74 (2008).
15. Furukawa J-i., Shinohara Y., Kuramoto H., Miura Y., Shimaoka H., Kuroguchi M., Nakano M., Nishimura S.-I.  
A comprehensive approach to structural and functional glycomics based on chemoselective glycoblottting and sequential tag conversion  
*Anal. Chem.*, **4**, 1094-101 (2008).
16. Miura Y., Hato M., Shinohara Y., Kuramoto H., Furukawa J-i., Kuroguchi M., Shimaoka H., Tada M., Nakanishi K., Ozaki M., Todo S., Nishimura S.-I.  
BlotGlycoABCTM: An integrated glycoblottting technique for rapid and large-scale clinical glycomics  
*Mol. Cell. Proteom.*, **7**, 370-7 (2008).
17. Maeda T., Nishimura S.-I.  
FRET-based direct and continuous monitoring of human fucosyltransferases activity: Efficient synthesis of versatile GDP-L-fucose derivatives from abundant D-galactose  
*Chem. Eur. J.*, **14**, 478-87 (2008).
18. Kyan A., Kamimura N., Hagisawa S., Hatakeyama S., Koie T., Yoneyama T., Arai Y., Nakagawa H., Nishimura S.-I., Miyoshi E., Hashimoto Y., Ohyama C.  
Positive expression of N-acetylglucosaminyltransferase-V (GnT-V) and beta1-6 branching N-linked oligosaccharides in human testicular germ cells diminish during malignant transformation and progression  
*Int. J. Oncol.*, **32**, 129-34 (2008).

19. Fujimura T., Shinohara Y., Tissot B., Pang P.-C., Kuroguchi M., Saito S., Arai Y., Sadilek M., Murayama K., Dell A., Nishimura S.-I., Hakomori S.  
Glycosylation status of haptoglobin in sera of patients with prostate cancer, vs. benign prostate disease or normal subjects  
*Int'l J. Cancer*, **122**, 39-49 (2008).
20. Nakahara T., Hashimoto R., Nakagawa H., Monde K., Miura N., Nishimura S.-I.  
Glycoconjugate Data Bank: Structures---an annotated glycan structure database and N-glycan primary structure verification service  
*Nucleic Acids Res.*, **36**, D368-71 (2008).
21. Shimizu H., Matsushita T., Nishimura S.-I.  
Microwave Chemistry for Glycosylation and Oligopeptide Synthesis  
*Koubunshi Ronbunshu*, **64**, 883-96 (2007).
22. Hamaguchi J., Nakagawa H., Takahashi M., Kudo T., Kamiyama N., Sun B., Oshima T., Sato Y., Deguchi K., Todo S., Nishimura S.-I.  
Swainsonine reduces 5-fluorouracil tolerance in the multistage resistance of colorectal cancer cell lines  
*Mol. Cancer*, [Online] **6**, 58, <http://www.molecular-cancer.com/content/6/1/58> (2007).
23. Itoh N., Sakaue S., Nakagawa N., Kuroguchi M., Ohira H., Deguchi K., Nishimura S.-I., Nishimura M.  
Analysis of N-glycan in serum glycoproteins from db/db mice and humans with type 2 diabetes  
*Am. J. Physiol.-Endocrinol. Metab.*, **293**, E1069-E77 (2007).
24. Kuroguchi M., Amano M., Fumoto M., Takimoto A., and Kondo H., Nishimura S.-I.  
Reverse glycoblotting allows rapid enrichment glycoproteomics of biopharmaceuticals and disease-related biomarkers  
*Angew. Chem. Int. Ed.*, **46**, 8808-13 (2007).
25. Kita Y., Miura Y., Furukawa J-I., Nakano M., Shinohara Y., Ohno M., Takimoto A., Nishimura S.-I.  
Quantitative glycomics of human whole serum glycoproteins based on the standardized protocol for liberating N-glycans  
*Mol. Cell. Proteom.*, **6**, 1437-45 (2007).
26. Majima T., Irie T., Sawaguchi N., Funakoshi T., Iwasaki N., Harada K., Minami A., Nishimura S.-I.  
Chitosan-based hyaluronan hybrid polymer fibre scaffold for ligament and tendon tissue engineering  
*Proc. Inst. Mech. Eng. Part H-J. Eng. Med.*, **221**, 537-46 (2007).
27. Fujitani N., Shimizu H., Matsubara T., Ohta T., Komata Y., Miura N., Sato T., Nishimura S.-I.  
Structural Transition of a Fifteen Amino Acid Residue Peptide Induced by GM1  
*Carbohydr. Res.*, **342**, 1895-903 (2007).
28. Yamane S., Iwasaki N., Kasahara Y., Harada K., Majima T., Monde K., Nishimura S.-I., and Minami A.  
Effect of pore size on in vitro cartilage formation using chitosan-based hyaluronic acid hybrid polymer fibers  
*J. Biomed. Mater. Res. Part A*, **81A**, 586-93 (2007).
29. Kudo T., Nakagawa H., Takahashi M., Hamaguchi J., Kamiyama N., Yokoo H., Nakanishi K., Nakagawa T., Kamiyama T., Deguchi K., Nishimura S.-I., Todo S.  
N-glycan alterations are associated with drug resistance in human hepatocellular carcinoma  
*Mol. Cancer*, [Online] **6**, 32, <http://www.molecular-cancer.com/content/6/1/32> (2007).
30. Nakagawa H., Hato M., Takegawa Y., Deguchi K., Ito H., Takahata M., Iwasaki N., Minami A., Nishimura S.-I.  
Detection of altered N-glycan profiles in whole serum from rheumatoid arthritis patients  
*J. Chromatogr. B*, **853**, 133-7 (2007).
31. André S., Sanchez-Ruderisch H., Nakagawa H., Buchholz M., Kopitz J., Forberich P., Kemmner W., Böck C., Deguchi K., Detjen K. M., Wiedenmann B., Doeberitz M. K., Gress T. M., Nishimura S.-I., Rosewicz S., Gabius H.-J.  
Tumor Suppressor p16INK4a: Modulator of Glycomic Profile and Galectin-1 Expression to Increase Susceptibility to Carbohydrate-Dependent Induction of Anoikis in Pancreatic Carcinoma Cells  
*FEBS J.*, **274**, 3233-56 (2007).
32. Uemura S., Feng F., Kume M., Yamada K., Kabayama K., Nishimura S.-I., Igarashi Y., Inokuchi J.-i.  
Cell Growth Arrest by Sialic Acid Clusters in Ganglioside GM3 Mimetic Polymers  
*Glycobiology*, **17**, 568-77 (2007).
33. Miura Y., Shinohara Y., Furukawa J., Nagahori N., Nishimura S.-I.  
Rapid and Simple Solid-Phase Esterification of Sialic Acid Residues for Quantitative Glycomics by Mass Spectrometry (p NA)  
*Chem. Eur. J.*, **13**, 4797- 804 (2007).
34. Shimawaki K., Fujisawa Y., Sato F., Fujitani N., Kuroguchi M., Hoshi H., Hinou H., Nishimura S.-I.  
Highly efficient synthesis of versatile proteoglycan core structures from 1,6-anhydro- $\beta$ -lactose as a key starting material  
*Angew. Chem. Int. Ed.*, **46**, 3074-9 (2007).
35. Kitatsuji C., Kuroguchi M., Nishimura S.-I., Ishimori K., and Wakasugi K.  
Molecular Basis of Guanine Nucleotide Dissociation Inhibitor Activity of Human Neuroglobin by Chemical Cross-Linking and Mass Spectrometry  
*J. Mol. Biol.*, **368**, 150-60 (2007).
36. Fujitani N., Kouno T., Nakahara T., Takaya K., Osaki T., Kawabata S., Mizuguchi M., Aizawa T., Demura M., Nishimura S.-I., Kawano K.  
The solution structure of horseshoe crab antimicrobial peptide tachystatin B with an inhibitory cystine-knot motif  
*J. Pept. Sci.*, **13**, 269-79 (2007).

37. Izumikawa T., Uyama T., Okuura Y., Sugahara K., Kitagawa H.  
Involvement of chondroitin sulfate synthase-3 (chondroitin synthase-2) in chondroitin polymerization through its interaction with chondroitin synthase-1 or chondroitin polymerizing factor.  
*Biochem. J.*, **403**, 545-52 (2007).
38. Deepa S. S., Yamada S., Fukui S., Sugahara K.  
Structural Determination of Novel Sulfated Octasaccharides Isolated from Chondroitin Sulfate of Shark Cartilage and Their Application for Characterizing Monoclonal Antibody Epitopes.  
*Glycobiology*, **17**, 631-45 (2007).
39. Yamada S., Morimoto H., Fujisawa T., Sugahara K.  
Glycosaminoglycans in *Hydra magnipapillata* (Hydrozoa, Cnidaria): demonstration of chondroitin in the developing nematocyst, sting organelle, and structural characterization of glycosaminoglycans.  
*Glycobiology*, **17**, 886-94 (2007).
40. Purushothaman A., Fukuda J., Mizumoto S., ten Dam G. B., van Kuppevelt T. H., Kitagawa H., Mikami T., Sugahara K.  
Functions of Chondroitin Sulfate/Dermatan Sulfate Chains in Brain Development: Critical Roles of E and iE Disaccharide Units Recognized by a Single Chain Antibody GD3G7.  
*J. Biol. Chem.*, **282**, 19442-52 (2007).
41. ten Dam G. B., van de Westerlo, E. M. A., Purushothaman A., Stan R.V., Bulten, J., Sweep F. C. G. J., Massuger L. F., Sugahara K., van Kuppevelt T. H.  
Antibody GD3G7 selected against embryonic glycosaminoglycans defines chondroitin sulfate-E domains highly up-regulated in ovarian cancer and involved in VEGF binding.  
*Am. J. Pathol.*, **171**, 1324-33 (2007).
42. Pothacharoen P., Kalayanamitra K., Deepa S. S., Fukui S., Hattori T., Fukushima N., Hardingham T., Kongtawelert P., Sugahara K.  
Two related but distinct chondroitin sulfate mimotope octasaccharide sequences recognized by monoclonal antibody WF6.  
*J. Biol. Chem.*, **282**, 35232-46 (2007).
43. Fongmoon D., Shetty A. K., Basappa, Yamada,S., Sugiura M., Kongtawelert P., Sugahara K.  
Chondroitinase-mediated degradation of rare 3-O-sulfated glucuronic acid in functional oversulfated chondroitin sulfate K and E.  
*J. Biol. Chem.*, **282**, 36895-904 (2007).
44. Akita K., von Holst A., Furukawa Y., Mikami T., Sugahara K., Faissner A.  
Expression of multiple chondroitin/dermatan sulfotransferases in the neurogenic regions of the embryonic and adult CNS suggests that complex chondroitin sulfates function in neural stem cell maintenance.  
*Stem Cells*, **26**, 798-809 (2008).
45. Properzi F., Lin R., Kwok J., Naidu M., van Kuppevelt T. H., ten Dam G. B., Camargo L. M., Furukawa Y., Mikami T., Sugahara K., Fawcett J. W.  
Heparan sulphate proteoglycans in glia and in the normal and injured CNS: Expression of sulfotransferases and changes in sulfation.  
*Eur. J. Neurosci.*, **27**, 593-604 (2008).
46. Taniguchi T., Tone I., Monde K.  
Observation and Characterization of a Specific Vibrational Circular Dichroism (VCD) Band in Phenyl Glycosides  
*Chirality*, **20**, 446-53 (2008).
47. Nakahashi A., Taniguchi T., Miura N., Monde K.  
Stereochemical Studies of Sialic Acid Derivatives by Vibrational Circular Dichroism  
*Org. Lett.*, **9**, 4741-4 (2007).
48. Curillov Z., Kutschy P., Budovsk M., Nakahashi A., Monde K.  
Stereoselective synthesis of (R)-(+)-1-methoxyspirobrassinin, (2R,3R)-(-)-1-methoxyspirobrassinol methyl ether and their enantiomers, or diastereoisomers  
*Tetrahedron Lett.*, **48**, 8200-4 (2007).
49. Taniguchi T., Monde K.  
Spectra - Structures Relationship on Carbohydrate VCD and Its Application to Glycoconjugates  
*Chem.-Asian J.*, **2**, 1258-66 (2007).
50. Min H.M., Aye M., Taniguchi T., Miura N., Monde K., Ohzawa K., Nikai T., Niwa M., Takaya Y.  
A structure and an absolute configuration of (+)-alternamin, a new coumarin from *Murraya alternans* having antidote activity against snake venom  
*Tetrahedron Lett.*, **48**, 6155-8 (2007).
51. Sato H., Taniguchi T., Nakahashi A., Monde K., Yamagishi A.  
Effects of Central Metals Ions on Vibrational Circular Dichroism Spectra of Tris- (-diketonato) Metal (III) Complexes  
*Inorg. Chem.*, **46**, 6755-66 (2007).
52. Fujita T., Obata K., Kuwahara S., Miura N., Nakahashi A., Monde K., Decatur J., Harada N.  
(R)-(+)-[VCD(+)-945]-4-Ethyl-4-methyloctane, the Simplest Chiral Saturated Hydrocarbon with a Quaternary Stereogenic Center  
*Tetrahedron Lett.*, **48**, 4219-22 (2007).
53. Averbeck N., Gao X-D., Nishimura S-I., and Dean N.  
Alg13, the catalytic subunit of the ER UDP-GlcNAc glycosyltransferase, is a target for proteasomal degradation.  
*Mol Biol Cell*. **19** (5), 2169-2178 (2008)
54. Nakajima K., Nakamura M., Gao X-D., Kozakai T.  
Possible Involvement of Prolactin in Synthesis of Lactoferrin in Bovine Mammary Epithelial Cells.  
*Bioscience, Biotechnology, and Biochemistry*, **72**, p1103-6 (2008).

## 著書・総説・解説等

1. 五十嵐靖之、木原章雄.  
スフィンゴ脂質の生理活性と代謝調節  
バイオとナノの融合II 新生命科学の応用 北海道大学  
COE研究成果編集委員会編, 117-31 (2007).
2. Sadamoto R. and Nishimura S.-I.  
8.4 Glycosylation Engineering of Glycoproteins  
*Glycoscience* 2nd Edition, Fraser-Reid B. O., Tatsuta K,  
and Thiem J., Springer, 2, 1859-71 (2008).
3. Nishimura S.-I.  
10.1 Technologies and Tools for Functional Glycobiology:  
Introduction  
*Glycoscience* 2nd Edition, Fraser-Reid B. O., Tatsuta K,  
and Thiem J., Springer, 3, 2115-9 (2008).
4. Miura M. and Nishimura S.-I.  
BlotGlyco and glycoblotting for large scale, high  
throughput glycomics  
*Trends in Glycoscience and Glycotechnology*, FCCA,  
*Gakushin Pub.Co.*, 20, 17-27 (2008).
5. 長堀紀子, 西村紳一郎  
5. 化学と生物の接点：糖鎖ケミカルバイオロジー  
蛋白質 核酸 酵素, 共立出版, 52, 1742-50 (2007).
6. Nagahori N. and Nishimura S.-I.  
D: Molecular interactions: Multivalent presentation:  
Glycopolymers  
*Comprehensive Glycoscience*, Elsevier Ltd., 453-75  
(2007).
7. 天野麻穂, 西村紳一郎  
高速化が進む糖鎖解析 – 糖鎖構造研究を加速する新  
しい解析法：グライコプロッティング法 –  
現代化学, 東京化学同人, 435, 55-61 (2007).
8. Nishimura S.-I.  
Oligosaccharides Marked  
*The Japan J., The Japan Journal, Ltd.*, 4, 31 (2007).
9. Uyama T., Kitagawa H., Sugahara K.  
Biosynthesis of glycosaminoglycans and proteoglycans.  
*Comprehensive Glycoscience* (Kamerling J.P., ed.) 3,  
79-104, Elsevier (Amsterdam) (2007).
10. Sugahara, K., Mikami, T.  
Chondroitin/dermatan sulfate in the central nervous system.  
*Curr. Opin. Struct. Biol.*, 17, 536-545 (2007).
11. 水本秀二, 菅原一幸  
コンドロイチン硫酸／デルマタン硫酸による神経突  
起形成の調節  
実験医学増刊号『波及・深化する糖鎖研究』羊土社,  
84-91 (2007).
12. 門出健次, 高分子学会編集  
第3部 分子構造の解析, 第4章 赤外円二色性スペク  
トル  
高分子分析技術最前線, 共立出版, 165-76 (2007).
13. 門出健次, 三浦信明, 谷口 透  
赤外円二色性を用いた絶対配置決定 – 誘導化を必要  
としない溶液状態での絶対配置決定法  
*化学と生物*, 45, 455-8 (2007).

## 国際学会・口頭発表

- May 2007  
Sorento, Italy  
Topological metabolism and transbilayer dynamics of sphingolipids.  
2nd Conference Phospholipase and other lipid mediators  
Invited speaker  
Igarashi Y., Kihara A. & Ikeda M.
- March 2008  
Killarney, Ireland  
ERA Chemistry 3rd Flash Conference  
Synthesis and characterization of MUC1-related glycopeptides  
Nishimura S.-I.
- July 2007  
Academia Sinica, Taipei  
Lecture at Genomics Research Center in Academia Sinica  
Clinical Glycomics Based on glycoform-focused reverse genomics  
Nishimura S.-I.
- July 2007  
Academia Sinica, Taipei  
MICC-3 meeting  
Conformational and biological characterization of synthetic mucin glycopeptides  
Nishimura S.-I.
- June 2007  
Tilton, NH, USA  
Gordon Research Conferences (Carbohydrates)  
Mechanism-based drug design: Novel strategy toward highly selective therapeutic reagents  
Nishimura S.-I.
- June 2007  
Copenhagen, Denmark  
BENZON SYMPOSIUM No.54  
Glycoblottting-Based Clinical Glycomics  
Nishimura S.-I.
- May 2007  
Patras, Greece  
FEBS Advanced Lecture Course, “Matrix Pathobiology, Signaling and Molecular Targets”  
Glycobiology of Proteoglycan Signaling in Brain Development  
Sugahara K.

June 2007	国内招待
Copenhagen, Danmark	
Benzon Symposium No. 54, "Glycosylation: Opportunities in Drug Development"	2007年10月 札幌市 知的クラスター キックオフフォーラム 免疫、アレルギー評価系の確立をめざして 五十嵐靖之
Neuritogenic Activity And Mechanism of Brain Chondroitin/Dermatan Sulfate Hybrid Chains	
Sugahara K., Li F., Shetty A.K.	
June 2007	2007年5月 赤穂市 アース製薬研究所講演 今年の学会、研究活動を振り返って 五十嵐靖之
National University of Singapore, Singapore	
STRUCTURAL AND FUNCTIONAL ANALYSIS OF CHONDROITIN SULFATE	
Sugahara K.	
September 2007	2008年1月 大阪府 大阪大学蛋白質研究所セミナー 糖鎖修飾の大規模高速解析技術 西村紳一郎
Rio de Janeiro, Brazil	
5th International Conference on Proteoglycans	
Glycosaminoglycan Research for 30 Years: Structure, Biosynthesis, and Functions.	
Sugahara K.	
October 2007	2007年11月 札幌市 北海道札幌西高等学校 進路講演会 大学進学は大きな夢を実現するための第一歩である 西村紳一郎
Sorèze, France	
Pierre Fabre Meeting "Proteoglycans and Glycosaminoglycans as Therapeutic Targets and Tools"	
Glycobiology of Proteoglycan Signaling in Brain Development	
Sugahara K.	
September 2007	2007年8月 神奈川県 日本応用糖質科学会平成19年度大会（第56回） 糖鎖研究からバイオ産業育成への挑戦 西村紳一郎
Groningen, The Netherlands	
CD 2007, 11th International Conference on Circular Dichroism	
THE MOST BASIC HELICAL FLUOROUS CHAIN	
-Conformational Analysis of Chiral Helical Perfluoroalkyl Chains by VCD and their Applications-	
Monde K.	
July 2007	2007年7月 鹿児島 第73回鹿児島大学VBLセミナー 硫酸化グリコサミノグリカン糖鎖の構造と機能 菅原一幸
Yokohama-Kamakura, Japan	
ISoFT07, The 2nd International Symposium on Fluorous Technologies	
The Most Basic Helical Fluorous Chains-Conformational Analysis of Chiral Helical Perfluoroalkyl Chains in Solution by Vibrational Circular Dichroism (VCD)-	
Monde K.	
July 2007	2007年12月 横浜市 BMB2007（第30回日本分子生物学会年会・第80回日本化学会大会合同大会） Proteoglycan Signaling in Brain Development Sugahara K., Li F., Shetty A., Mizumoto S., Purushothaman A., Fukuda J., Mitsunaga C., Mikami T., Kitagawa H., ten Dam G. B., van Kuppevelt T. H.
San Diego, USA	
19th International Symposium on Chirality, Chirality 2007	
Novel Chiroptical Analysis of Glycoconjugates by Vibrational Circular Dichroism (VCD)	
Monde K., Taniguchi T., Nakahashi A., Fukuzawa M., Hashimoto M., Miura N.	
2008年1月 東京都 文部科学省 特定領域研究 「糖鎖によるタンパク質と分子複合体の機能調節」(Functional Glycomics) 研究成果公開発表シンポジウム 第3の生命鎖：糖鎖の謎が今、解る脳の発達におけるコンドロイチン硫酸／デルマタン硫酸の機能：新規1本鎖抗体GD3G7に認識されるEおよびiEユニットの重要な役割 菅原一幸	

2008年4月  
つくば市  
AISTシンポジウム『酵母糖鎖生物学とその応用』  
C-termini of Alg13 and Alg14 proteins mediate formation of the  
active UDP-N-acetylglucosamine transferase complex  
高 晓冬

2007年11月  
東京都  
第9回東日本スクリプス会  
生命分子機能学（塩野義）研究室－北海道大学における寄  
附講座－の研究紹介  
貞許礼子

2007年9月  
名古屋市  
第56回高分子討論会 第4回国際交流シンポジウム－海  
外へはばたく女性研究者－  
米国での2年間  
貞許礼子

#### 特許

特許出願 7件、PCT出願 3件  
発明者：西村紳一郎 他

2007/11/19 (特願2007-291424)  
ムコ多糖分解促進剤  
発明者：菅原一幸, 山田修平, 水本秀二

2007/2/1 (特願2007-022552)  
撥水性および撥油性表面を有する物品およびその製造法  
発明者：辻井薫, 黒木一誠, 門出健次