

# Hiroyuki Kaji

## List of Publications by Year in descending order

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78  
papers

3,028  
citations

186265

28  
h-index

168389

53  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3333  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Lectin affinity capture, isotope-coded tagging and mass spectrometry to identify N-linked glycoproteins. <i>Nature Biotechnology</i> , 2003, 21, 667-672.   | 17.5 | 637       |
| 2  | Tubulin Seeds $\hat{\pm}$ -Synuclein Fibril Formation. <i>Journal of Biological Chemistry</i> , 2002, 277, 2112-2117.   | 3.4  | 177       |
| 3  | A strategy for discovery of cancer glyco-biomarkers in serum using newly developed technologies for glycoproteomics. <i>FEBS Journal</i> , 2010, 277, 95-105.   | 4.7  | 158       |
| 4  | Mass spectrometric identification of N-linked glycopeptides using lectin-mediated affinity capture and glycosylation site-specific stable isotope tagging. <i>Nature Protocols</i> , 2006, 1, 3019-3027.                            | 12.0 | 155       |
| 5  | Large-Scale Identification of <i>Caenorhabditis elegans</i> Proteins by Multidimensional Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2003, 2, 23-35.                                      | 3.7  | 118       |
| 6  | Proteomics Reveals N-Linked Glycoprotein Diversity in <i>Caenorhabditis elegans</i> and Suggests an Atypical Translocation Mechanism for Integral Membrane Proteins. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 2100-2109. | 3.8  | 97        |
| 7  | Identification of the Site of Interaction of the 14-3-3 Protein with Phosphorylated Tryptophan Hydroxylase. <i>Journal of Biological Chemistry</i> , 1995, 270, 28515-28518.  | 3.4  | 86        |
| 8  | Large-scale Identification of N-Glycosylated Proteins of Mouse Tissues and Construction of a Glycoprotein Database, GlycoProtDB. <i>Journal of Proteome Research</i> , 2012, 11, 4553-4566.   | 3.7  | 77        |
| 9  | Only a Small Subset of the Horizontally Transferred Chromosomal Genes in <i>Escherichia coli</i> Are Translated into Proteins. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 780-787.   | 3.8  | 75        |
| 10 | Crystal structure of inorganic pyrophosphatase from <i>Thermus thermophilus</i> . <i>Protein Science</i> , 1994, 3, 1098-1107.  | 7.6  | 72        |
| 11 | The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. <i>Nature Methods</i> , 2020, 17, 649-650.  | 19.0 | 71        |
| 12 | Affinity Capturing and Gene Assignment of Soluble Glycoproteins Produced by the Nematode <i>Caenorhabditis elegans</i> . <i>Journal of Biochemistry</i> , 2002, 132, 103-114.   | 1.7  | 66        |
| 13 | A unique N-glycan on human transferrin in CSF: a possible biomarker for iNPH. <i>Neurobiology of Aging</i> , 2012, 33, 1807-1815.   | 3.1  | 62        |
| 14 | Enhancement of metastatic ability by ectopic expression of ST6GalNAcI on a gastric cancer cell line in a mouse model. <i>Clinical and Experimental Metastasis</i> , 2012, 29, 229-238.  | 3.3  | 62        |
| 15 | Current Technologies for Complex Glycoproteomics and Their Applications to Biology/Disease-Driven Glycoproteomics. <i>Journal of Proteome Research</i> , 2018, 17, 4097-4112.   | 3.7  | 60        |
| 16 | STEM: A Software Tool for Large-Scale Proteomic Data Analyses. <i>Journal of Proteome Research</i> , 2005, 4, 1826-1831.  | 3.7  | 59        |
| 17 | Profiling of <i>Caenorhabditis elegans</i> proteins using two-dimensional gel electrophoresis and matrix assisted laser desorption/ionization-time of flight-mass spectrometry. <i>Electrophoresis</i> , 2000, 21, 1755-1765.       | 2.4  | 55        |
| 18 | Glycoproteomic Discovery of Serological Biomarker Candidates for HCV/HBV Infection-Associated Liver Fibrosis and Hepatocellular Carcinoma. <i>Journal of Proteome Research</i> , 2013, 12, 2630-2640.                               | 3.7  | 52        |

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|----|--|-----|-----------|
| 19 | A standardized method for lectin microarray-based tissue glycome mapping. <i>Scientific Reports</i> , 2017, 7, 43560.  | 3.3 | 48        |
| 20 | Solution structure of a human cystatin A variant, cystatin A2-98 M65L by NMR spectroscopy. A possible role of the interactions between the N- and C-termini to maintain the inhibitory active form of cystatin A. <i>Biochemistry</i> , 1995, 34, 14637-14648.                   | 2.5 | 43        |
| 21 | In vitro processing of amyloid precursor protein by cathepsin D. <i>International Journal of Biochemistry and Cell Biology</i> , 1999, 31, 1327-1337.  | 2.8 | 37        |
| 22 | Limited proteolysis of NACP/β-synuclein. <i>Journal of Alzheimer's Disease</i> , 2001, 3, 577-584.   | 2.6 | 35        |
| 23 | Novel Glycobiomarker for Ovarian Cancer That Detects Clear Cell Carcinoma. <i>Journal of Proteome Research</i> , 2014, 13, 1624-1635.  | 3.7 | 34        |
| 24 | Large-Scale Identification of N-Glycan Glycoproteins Carrying Lewis x and Site-Specific N-Glycan Alterations in Fut9 Knockout Mice. <i>Journal of Proteome Research</i> , 2015, 14, 3823-3834.   | 3.7 | 34        |
| 25 | Engineering of recombinant Wisteria floribunda agglutinin specifically binding to GalNAc <sup>2</sup> 1,4GlcNAc (LacdiNAc). <i>Glycobiology</i> , 2017, 27, 743-754.   | 2.5 | 34        |
| 26 | Glycoproteomics Approach for Identifying Glycobiomarker Candidate Molecules for Tissue Type Classification of Non-small Cell Lung Carcinoma. <i>Journal of Proteome Research</i> , 2014, 13, 4705-4716.  | 3.7 | 32        |
| 27 | Application of a Glycoproteomics-Based Biomarker Development Method: Alteration in Glycan Structure on Colony Stimulating Factor 1 Receptor as a Possible Glycobiomarker Candidate for Evaluation of Liver Cirrhosis. <i>Journal of Proteome Research</i> , 2014, 13, 1428-1437. | 3.7 | 31        |
| 28 | Fucosyltransferase 2 induces lung epithelial fucosylation and exacerbates house dust mite-induced airway inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 698-709.e9.  | 2.9 | 30        |
| 29 | Ostrich crystallins. Structural characterization of β-crystallin with enzymic activity. <i>Biochemical Journal</i> , 1991, 273, 295-300.   | 3.7 | 29        |
| 30 | Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines. <i>Glycoconjugate Journal</i> , 2016, 33, 405-415.  | 2.7 | 25        |
| 31 | Human Cystatin A Is Inactivated by Engineered Truncation. The NH <sub>2</sub> -Terminal Region of the Cysteine Proteinase Inhibitor Is Essential for Expression of Its Inhibitory Activity. <i>Biochemistry</i> , 1995, 34, 12185-12192.   | 2.5 | 24        |
| 32 | Processing of Amyloid β-Peptides by Neutral Cysteine Protease Bleomycin Hydrolase. <i>Protein and Peptide Letters</i> , 2006, 13, 119-123.   | 0.9 | 24        |
| 33 | Large-scale identification of target proteins of a glycosyltransferase isozyme by Lectin-IGOT-LC/MS, an LC/MS-based glycoproteomic approach. <i>Scientific Reports</i> , 2012, 2, 680.   | 3.3 | 22        |
| 34 | Potential involvement of OX40 in the regulation of autoantibody sialylation in arthritis. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 1488-1496.   | 0.9 | 21        |
| 35 | Proteomics: Advanced Technology for the Analysis of Cellular Function. <i>Journal of Nutrition</i> , 2003, 133, 2090S-2096S.   | 2.9 | 20        |
| 36 | Characterization of Copper Atoms in Bilirubin Oxidase by Spectroscopic Analyses. <i>Journal of Biochemistry</i> , 1989, 106, 621-626.  | 1.7 | 19        |

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|----|---|-----|-----------|
| 37 | Identification of PNGase-dependent ERAD substrates in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , 2016, 473, 3001-3012.  | 3.7 | 19        |
| 38 | Identification of Poly-N-Acetyllactosamine-Carrying Glycoproteins from HL-60 Human Promyelocytic Leukemia Cells Using a Site-Specific Glycome Analysis Method, Glyco-RIDGE. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1138-1152. | 2.8 | 19        |
| 39 | Molecular Cloning, Expression, and Site-Directed Mutagenesis of Inorganic Pyrophosphatase from <i>Thermus thermophilus</i> HB8. <i>Journal of Biochemistry</i> , 1998, 124, 79-88.  | 1.7 | 18        |
| 40 | Large-scale identification of secretome glycoproteins recognized by <i>Wisteria floribunda</i> agglutinin: A glycoproteomic approach to biomarker discovery. <i>Proteomics</i> , 2015, 15, 2921-2933.   | 2.2 | 18        |
| 41 | Glycobiomarker, Fucosylated Short-Form Secretogranin III Levels Are Increased in Serum of Patients with Small Cell Lung Carcinoma. <i>Journal of Proteome Research</i> , 2017, 16, 4495-4505.   | 3.7 | 16        |
| 42 | IgA Nephropathy Caused by Unusual Polymerization of IgA1 with Aberrant N-Glycosylation in a Patient with Monoclonal Immunoglobulin Deposition Disease. <i>PLoS ONE</i> , 2014, 9, e91079.   | 2.5 | 16        |
| 43 | Studies on Chemical Synthesis of Human Cystatin A Gene and Its Expression in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 1989, 105, 143-147.   | 1.7 | 15        |
| 44 | Identification of mesothelioma-specific sialylated epitope recognized with monoclonal antibody SKM9-2 in a mucin-like membrane protein HEG1. <i>Scientific Reports</i> , 2018, 8, 14251.  | 3.3 | 15        |
| 45 | Chemical Modifications of Histidyl and Tyrosyl Residues of Inorganic Pyrophosphatase from <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 1988, 103, 766-772.  | 1.7 | 14        |
| 46 | Comparative Studies on the Primary Structure of Human Cystatin As from Epidermis, Liver, Spleen, and Leukocytes1. <i>Journal of Biochemistry</i> , 1989, 105, 986-991.  | 1.7 | 14        |
| 47 | Significance of the Highly Conserved Gly-4 Residue in Human Cystatin A1. <i>Journal of Biochemistry</i> , 1995, 118, 635-642.   | 1.7 | 14        |
| 48 | A chemoenzymatic approach toward the identification of fucosylated glycoproteins and mapping of N-glycan sites. <i>Glycobiology</i> , 2012, 22, 630-637.  | 2.5 | 14        |
| 49 | Efficient production of glycosylated Cypridina luciferase using plant cells. <i>Protein Expression and Purification</i> , 2017, 133, 102-109.   | 1.3 | 13        |
| 50 | Comparison of the $\hat{I}^3$ -crystallins isolated from eye lenses of shark and carp Unique secondary and tertiary structure of shark $\hat{I}^3$ -crystallin. <i>FEBS Letters</i> , 1990, 275, 111-113.   | 2.8 | 12        |
| 51 | Stable Isotope Labeling of N-Glycosylated Peptides by Enzymatic Deglycosylation for Mass Spectrometry-Based Glycoproteomics. <i>Methods in Molecular Biology</i> , 2013, 951, 217-227.  | 0.9 | 11        |
| 52 | <i>Wisteria floribunda</i> agglutinin staining for the quantitative assessment of cardiac fibrogenic activity in a mouse model of dilated cardiomyopathy. <i>Laboratory Investigation</i> , 2019, 99, 1749-1765.  | 3.7 | 10        |
| 53 | Conformation of bilirubin oxidase in native and denatured states. <i>The Protein Journal</i> , 1994, 13, 307-313.   | 1.1 | 9         |
| 54 | Identification of mammalian glycoproteins with type-I LacdiNAc structures synthesized by the glycosyltransferase B3GALNT2. <i>Journal of Biological Chemistry</i> , 2019, 294, 7433-7444.   | 3.4 | 9         |

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|----|---|-----|-----------|
| 55 | Overexpression in <i>Escherichia coli</i> of Chemically Synthesized Gene for Active 0.19 Å-Amylase Inhibitor from Wheat Kernel1. <i>Journal of Biochemistry</i> , 1997, 122, 918-926.                                   | 1.7 | 7         |
| 56 | Structural comparison between wild-type and P25S human cystatin A by NMR spectroscopy. Does this mutation affect the alpha-helix conformation?. <i>Journal of Structural and Functional Genomics</i> , 2000, 1, 26-42.  | 1.2 | 7         |
| 57 | Protein database of <i>Caenorhabditis elegans</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 787, 91-99.   | 2.3 | 7         |
| 58 | <i>N</i> -glycan structures of <i>Wisteria floribunda</i> agglutinin-positive Mac2 binding protein in the serum of patients with liver fibrosis. <i>Glycobiology</i> , 2021, 31, 1268-1278.                             | 2.5 | 7         |
| 59 | Liquid Chromatography/Mass Spectrometry (LC/MS)-Based Glycoproteomics Technologies for Cancer Biomarker Discovery. <i>Clinical Proteomics</i> , 2008, 4, 14-24.   | 2.1 | 6         |
| 60 | GlycoProtDB: A Database of Glycoproteins Mapped with Actual Glycosylation Sites Identified by Mass Spectrometry. , 2017, , 215-224.   |     | 6         |
| 61 | Lectin Bead Array in a Single Tip Facilitates Fully Automatic Glycoprotein Profiling. <i>Analytical Chemistry</i> , 2019, 91, 11162-11169.  | 6.5 | 6         |
| 62 | Large-Scale Analysis of Glycoproteins by LC-MS Method. <i>Trends in Glycoscience and Glycotechnology</i> , 2006, 18, 313-322.   | 0.1 | 5         |
| 63 | Identification and characterization of sulfated glycoproteins from small cell lung carcinoma cells assisted by management of molecular charges. <i>Glycoconjugate Journal</i> , 2016, 33, 917-926.                      | 2.7 | 5         |
| 64 | O-linked N-acetylgalactosamine modification is present on the tumor suppressor p53. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129635.   | 2.4 | 5         |
| 65 | Conformational Changes of Papain Induced on Interaction with Thiol Proteinase Inhibitors from Newborn Rat Epidermis. <i>Journal of Biochemistry</i> , 1986, 99, 785-791.  | 1.7 | 4         |
| 66 | A New UV Method for Serum $\hat{A}$ -Glutamyltransferase Assay Using Recombinant 4-Aminobenzoate Hydroxylase as a Coupling Enzyme. <i>Journal of Biochemistry</i> , 1999, 126, 347-353.                                 | 1.7 | 4         |
| 67 | O-glycosylated HBsAg peptide can induce specific antibody neutralizing HBV infection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130020.   | 2.4 | 4         |
| 68 | Primary Structure, Expression, and Site-Directed Mutagenesis of Inorganic Pyrophosphatase from <i>Bacillus stearothermophilus</i> . <i>Journal of Biochemistry</i> , 1999, 125, 48-57.                                  | 1.7 | 3         |
| 69 | Sensitive New Assay System for Serum <i>Wisteria floribunda</i> Agglutinin-Reactive Ceruloplasmin That Distinguishes Ovarian Clear Cell Carcinoma from Endometrioma. <i>Analytical Chemistry</i> , 2022, 94, 2476-2484. | 6.5 | 3         |
| 70 | A Novel Method of CD31-Combined ABO Carbohydrate Antigen Microarray Predicts Acute Antibody-Mediated Rejection in ABO-Incompatible Kidney Transplantation. <i>Transplant International</i> , 2022, 35, 10248.           | 1.6 | 3         |
| 71 | Structural Analysis of Glycans (Analytical and Detection Methods). , 2019, , 3-33.  |     | 2         |
| 72 | Host-Dependent Producibility of Recombinant <i>Cypridina noctiluca</i> Luciferase With Glycosylation Defects. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 774786.                                  | 4.1 | 2         |

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|----|--|-----|-----------|
| 73 | Reaction of 2-Deoxy-2-C-(3-bromoacetoxypropyl)- $\beta$ -D-arabinofuranosides with Oligonucleotide <sup>1</sup> . Nucleosides & Nucleotides, 1994, 13, 2081-2104.            | 0.5 | 1         |
| 74 | Molecular Cloning, Enhancement of Expression Efficiency and Site-Directed Mutagenesis of Rat Epidermal Cystatin A. Journal of Biochemistry, 1999, 126, 769-775.              | 1.7 | 1         |
| 75 | In vitro Generation of Amyloid $\beta$ 42 Peptide from Amyloid Protein Precursor Through Nonspecific Proteolysis. Pakistan Journal of Biological Sciences, 2001, 4, 289-292. | 0.5 | 0         |
| 76 | Methods for Large-Scale Glycosylation Site Mapping of N-Glycoproteins. , 2014, , 1-7.  |     | 0         |
| 77 | Methods for Large-Scale Glycosylation Site Mapping Glycosylation site mapping of N-Glycoproteins. , 2015, , 87-93.   |     | 0         |
| 78 | A Method for Large-Scale Analysis for N-linked Glycoproteins by the Glycosylation Site-Specific Stable Isotope-Labeling and LC/MS Shotgun Technology. , 2008, , 94-97.       |     | 0         |