

Kiyoko F Aoki-Kinoshita

List of Publications by Citations

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105
papers

5,243
citations

28
h-index

72
g-index

115
ext. papers

6,227
ext. citations

5.3
avg, IF

5.3
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 105 | From genomics to chemical genomics: new developments in KEGG. <i>Nucleic Acids Research</i> , 2006 , 34, D354-D361 | 7.1 | 2267 |
| 104 | Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4 | 5.8 | 585 |
| 103 | KEGG as a glycome informatics resource. <i>Glycobiology</i> , 2006 , 16, 63R-70R | 5.8 | 231 |
| 102 | Gene annotation and pathway mapping in KEGG. <i>Methods in Molecular Biology</i> , 2007 , 396, 71-91 | 1.4 | 196 |
| 101 | Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019 , 29, 620-624 | 5.8 | 148 |
| 100 | UniCarbKB: building a knowledge platform for glycoproteomics. <i>Nucleic Acids Research</i> , 2014 , 42, D215-D219 | 2.1 | 133 |
| 99 | GlyTouCan: an accessible glycan structure repository. <i>Glycobiology</i> , 2017 , 27, 915-919 | 5.8 | 86 |
| 98 | MIRAGE: the minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014 , 24, 402-6 | 5.8 | 84 |
| 97 | GlyTouCan 1.0--The international glycan structure repository. <i>Nucleic Acids Research</i> , 2016 , 44, D1237-D1240 | 2.1 | 72 |
| 96 | Toolboxes for a standardised and systematic study of glycans. <i>BMC Bioinformatics</i> , 2014 , 15 Suppl 1, S9 | 3.6 | 56 |
| 95 | GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020 , 30, 72-73 | 5.8 | 53 |
| 94 | The RINGS resource for glycome informatics analysis and data mining on the Web. <i>OMICS A Journal of Integrative Biology</i> , 2010 , 14, 475-86 | 3.8 | 49 |
| 93 | WURCS: the Web3 unique representation of carbohydrate structures. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1558-66 | 6.1 | 48 |
| 92 | UniCarbKB: putting the pieces together for glycomics research. <i>Proteomics</i> , 2011 , 11, 4117-21 | 4.8 | 47 |
| 91 | An introduction to bioinformatics for glycomics research. <i>PLoS Computational Biology</i> , 2008 , 4, e1000075 | 5 | 47 |
| 90 | Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013 , 4, 39 | 2.2 | 44 |
| 89 | The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016 , 26, 907-910 | 5.8 | 44 |

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| 88 | GlycoRDF: an ontology to standardize glycomics data in RDF. <i>Bioinformatics</i> , 2015 , 31, 919-25 | 7.2 | 42 |
| 87 | Towards a standardized bioinformatics infrastructure for N- and O-glycomics. <i>Nature Communications</i> , 2019 , 10, 3275 | 17.4 | 42 |
| 86 | BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. <i>Journal of Biomedical Semantics</i> , 2014 , 5, 5 | 2.2 | 42 |
| 85 | Systems glycomics of adult zebrafish identifies organ-specific sialylation and glycosylation patterns. <i>Nature Communications</i> , 2018 , 9, 4647 | 17.4 | 40 |
| 84 | The Lectin Frontier Database (LfDB), and data generation based on frontal affinity chromatography. <i>Molecules</i> , 2015 , 20, 951-73 | 4.8 | 37 |
| 83 | Using databases and web resources for glycomics research. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 1036-45 | 7.6 | 35 |
| 82 | Improving MHC binding peptide prediction by incorporating binding data of auxiliary MHC molecules. <i>Bioinformatics</i> , 2006 , 22, 1648-55 | 7.2 | 35 |
| 81 | The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. <i>Nature Methods</i> , 2020 , 17, 649-650 | 21.6 | 34 |
| 80 | WURCS 2.0 Update To Encapsulate Ambiguous Carbohydrate Structures. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 632-637 | 6.1 | 32 |
| 79 | GlycoPOST realizes FAIR principles for glycomics mass spectrometry data. <i>Nucleic Acids Research</i> , 2021 , 49, D1523-D1528 | 20.1 | 28 |
| 78 | Comprehensive analysis of the N-glycan biosynthetic pathway using bioinformatics to generate UniCorn: A theoretical N-glycan structure database. <i>Carbohydrate Research</i> , 2016 , 431, 56-63 | 2.9 | 26 |
| 77 | The GlycomeAtlas tool for visualizing and querying glycome data. <i>Bioinformatics</i> , 2012 , 28, 2849-50 | 7.2 | 26 |
| 76 | ProfilePSTMM: capturing tree-structure motifs in carbohydrate sugar chains. <i>Bioinformatics</i> , 2006 , 22, e25-34 | 7.2 | 25 |
| 75 | Implementation of GlycanBuilder to draw a wide variety of ambiguous glycans. <i>Carbohydrate Research</i> , 2017 , 445, 104-116 | 2.9 | 24 |
| 74 | Identification of genes required for neural-specific glycosylation using functional genomics. <i>PLoS Genetics</i> , 2010 , 6, e1001254 | 6 | 24 |
| 73 | The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. The DBCLS BioHackathon Consortium*. <i>Journal of Biomedical Semantics</i> , 2010 , 1, 8 | 2.2 | 24 |
| 72 | Phenotype-based clustering of glycosylation-related genes by RNAi-mediated gene silencing. <i>Genes To Cells</i> , 2015 , 20, 521-42 | 2.3 | 18 |
| 71 | Overview of KEGG applications to omics-related research. <i>Journal of Pesticide Sciences</i> , 2006 , 31, 296-299.7 | | 17 |

- 70 Global mapping of glycosylation pathways in human-derived cells. *Developmental Cell*, **2021**, 56, 1195-1209. [DOI: 10.1016/j.devcel.2021.07.016](#)
- 69 The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. *Journal of Biomedical Semantics*, **2011**, 2, 4 [DOI: 10.1007/s12527-011-0002-1](#) 2.2 15
- 68 A probabilistic model for mining labeled ordered trees: capturing patterns in carbohydrate sugar chains. *IEEE Transactions on Knowledge and Data Engineering*, **2005**, 17, 1051-1064 [DOI: 10.1109/TKDE.2005.105](#) 4.2 15
- 67 The GlySpace Alliance: toward a collaborative global glycoinformatics community. *Glycobiology*, **2020**, 30, 70-71 [DOI: 10.1093/glycob/cwaa001](#) 5.8 15
- 66 Implementation of linked data in the life sciences at BioHackathon 2011. *Journal of Biomedical Semantics*, **2015**, 6, 3 [DOI: 10.1007/s12527-015-0003-2](#) 2.2 13
- 65 Glycomic analysis using KEGG GLYCAN. *Methods in Molecular Biology*, **2015**, 1273, 97-107 [DOI: 10.1007/978-1-4939-9811-1_7](#) 1.4 13
- 64 The international glycan repository GlyTouCan version 3.0. *Nucleic Acids Research*, **2021**, 49, D1529-D1533. [DOI: 10.1093/nar/nkab101](#) 2.1 13
- 63 MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. *Carbohydrate Research*, **2018**, 464, 44-56 [DOI: 10.1016/j.carbres.2018.05.001](#) 2.9 13
- 62 Bioinformatics approaches in glycomics and drug discovery. *Current Opinion in Molecular Therapeutics*, **2006**, 8, 514-20 [DOI: 10.1016/S1522-6193\(06\)00011-1](#) 12
- 61 A gram distribution kernel applied to glycan classification and motif extraction. *Genome Informatics*, **2006**, 17, 25-34 [DOI: 10.1007/978-3-540-33111-1_3](#) 12
- 60 Frequent glycan structure mining of influenza virus data revealed a sulfated glycan motif that increased viral infection. *Bioinformatics*, **2014**, 30, 706-11 [DOI: 10.1093/bioinformatics/btu001](#) 7.2 11
- 59 GlyGen data model and processing workflow. *Bioinformatics*, **2020**, 36, 3941-3943 [DOI: 10.1093/bioinformatics/btaa001](#) 7.2 10
- 58 GlycanFormatConverter: a conversion tool for translating the complexities of glycans. *Bioinformatics*, **2019**, 35, 2434-2440 [DOI: 10.1093/bioinformatics/btz100](#) 7.2 10
- 57 A weighted q-gram method for glycan structure classification. *BMC Bioinformatics*, **2010**, 11 Suppl 1, S33 [DOI: 10.1186/1471-2108-S1-S33](#) 3.6 9
- 56 Development and application of an algorithm to compute weighted multiple glycan alignments. *Bioinformatics*, **2017**, 33, 1317-1323 [DOI: 10.1093/bioinformatics/btx001](#) 7.2 8
- 55 A systematic framework to derive N-glycan biosynthesis process and the automated construction of glycosylation networks. *BMC Bioinformatics*, **2016**, 17 Suppl 7, 240 [DOI: 10.1186/s12859-016-0970-1](#) 3.6 8
- 54 The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. *Glycobiology*, **2013**, 23, 1422-1424 [DOI: 10.1093/glycob/cwt001](#) 5.8 8
- 53 A consensus-based and readable extension of near de for eaction ules (LiCoRR). *Beilstein Journal of Organic Chemistry*, **2020**, 16, 2645-2662 [DOI: 10.7705/1464-2675.1612645](#) 2.5 8

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| 52 | Glycome Informatics: Methods and Applications | | 7 |
| 51 | An Efficient Unordered Tree Kernel and Its Application to Glycan Classification 2008 , 184-195 | | 7 |
| 50 | Enhanced validation of small-molecule ligands and carbohydrates in the Protein Data Bank. <i>Structure</i> , 2021 , 29, 393-400.e1 | 5.2 | 7 |
| 49 | A global representation of the carbohydrate structures: a tool for the analysis of glycan. <i>Genome Informatics</i> , 2005 , 16, 214-22 | | 7 |
| 48 | Introduction to informatics in glycoprotein analysis. <i>Methods in Molecular Biology</i> , 2013 , 951, 257-67 | 1.4 | 6 |
| 47 | A new efficient probabilistic model for mining labeled ordered trees applied to glycobiology. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2008 , 2, 1-30 | 4 | 6 |
| 46 | A new efficient probabilistic model for mining labeled ordered trees 2006 , | | 6 |
| 45 | Multiple Tree Alignment with Weights Applied to Carbohydrates to Extract Binding Recognition Patterns. <i>Lecture Notes in Computer Science</i> , 2012 , 49-58 | 0.9 | 6 |
| 44 | LM-GlycomeAtlas Ver. 1.0: A Novel Visualization Tool for Lectin Microarray-Based Glycomic Profiles of Mouse Tissue Sections. <i>Molecules</i> , 2019 , 24, | 4.8 | 5 |
| 43 | The Glycome Analytics Platform: an integrative framework for glycobioinformatics. <i>Bioinformatics</i> , 2016 , 32, 3005-11 | 7.2 | 5 |
| 42 | Mining frequent subtrees in glycan data using the RINGS glycan miner tool. <i>Methods in Molecular Biology</i> , 2013 , 939, 87-95 | 1.4 | 5 |
| 41 | Analyzing glycan structure synthesis with the Glycan Pathway Predictor (GPP) Tool. <i>Methods in Molecular Biology</i> , 2015 , 1273, 139-47 | 1.4 | 5 |
| 40 | Identification of proteasome components required for apical localization of Chaoptin using functional genomics. <i>Journal of Neurogenetics</i> , 2012 , 26, 53-63 | 1.6 | 4 |
| 39 | Using glycome databases for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2008 , 3, 877-90 | 6.2 | 4 |
| 38 | Extracting glycan motifs using a biochemicallyweighted kernel. <i>Bioinformation</i> , 2011 , 7, 405-12 | 1.1 | 4 |
| 37 | Glycoproteomics. <i>Nature Reviews Methods Primers</i> , 2022 , 2, | | 4 |
| 36 | Development of Carbohydrate Nomenclature and Representation 2017 , 7-25 | | 3 |
| 35 | GlycoGene Database (GGDB) on the Semantic Web 2017 , 163-175 | | 3 |

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| 34 | e-workflow for recording of glycomic mass spectrometric data in compliance with reporting guidelines | | 3 |
| 33 | Knowledge discovery for pancreatic cancer using inductive logic programming. <i>IET Systems Biology</i> , 2014 , 8, 162-8 | 1.4 | 2 |
| 32 | Modeling genetic regulatory networks: a delay discrete dynamical model approach. <i>Journal of Systems Science and Complexity</i> , 2012 , 25, 1052-1067 | 1 | 2 |
| 31 | Using KEGG in the Transition from Genomics to Chemical Genomics 2009 , 437-452 | | 2 |
| 30 | Analyzing Glycan-Binding Profiles Using Weighted Multiple Alignment of Trees. <i>Methods in Molecular Biology</i> , 2018 , 1807, 131-140 | 1.4 | 1 |
| 29 | Trends and Future Perspectives for Glycoinformatics. <i>Trends in Glycoscience and Glycotechnology</i> , 2014 , 26, 89-97 | 0.1 | 1 |
| 28 | Support Vector Machine Methods for the Prediction of Cancer Growth 2010 , | | 1 |
| 27 | A 6-Approximation Algorithm for Computing Smallest Common AoN-Supertree with Application to the Reconstruction of Glycan Trees. <i>Lecture Notes in Computer Science</i> , 2006 , 100-110 | 0.9 | 1 |
| 26 | A consensus-based and readable extension of Linear Code for Reaction Rules (LiCoRR) | | 1 |
| 25 | Analyzing glycan-binding patterns with the ProfilePSTMM Tool. <i>Methods in Molecular Biology</i> , 2015 , 1273, 193-202 | 1.4 | 1 |
| 24 | Glycoinformatics: Overview 2015 , 185-192 | | 1 |
| 23 | PAConto: RDF Representation of PACDB Data and Ontology of Infectious Diseases Known to Be Related to Glycan Binding 2017 , 261-295 | | 1 |
| 22 | LM-GlycomeAtlas Ver. 2.0: An Integrated Visualization for Lectin Microarray-based Mouse Tissue Glycome Mapping Data with Lectin Histochemistry. <i>Journal of Proteome Research</i> , 2021 , 20, 2069-2075 | 5.6 | 1 |
| 21 | The glycoconjugate ontology (GlycoCoO) for standardizing the annotation of glycoconjugate data and its application. <i>Glycobiology</i> , 2021 , 31, 741-750 | 5.8 | 1 |
| 20 | Latest developments in Semantic Web technologies applied to the glycosciences. <i>Perspectives in Science</i> , 2017 , 11, 18-23 | 0.8 | 0 |
| 19 | Using GlyTouCan Version 1.0: The First International Glycan Structure Repository 2017 , 41-73 | | 0 |
| 18 | RINGS: A Web Resource of Tools for Analyzing Glycomics Data 2017 , 299-334 | | 0 |
| 17 | Glycome informatics: using systems biology to gain mechanistic insights into glycan biosynthesis. <i>Current Opinion in Chemical Engineering</i> , 2021 , 32, 100683 | 5.4 | 0 |

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| 16 | Glycoinformatics Resources Integrated Through the GlySpace Alliance 2021 , 507-521 | 0 |
| 15 | On using physico-chemical properties of amino acids in string kernels for protein classification via support vector machines. <i>Journal of Systems Science and Complexity</i> , 2015 , 28, 504-516 | 1 |
| 14 | Informatics for Glycobiology and Glycomics 2011 , 409-426 | |
| 13 | Bioinformatics Analysis of Glycan Structures from a Genomic Perspective 125-141 | |
| 12 | Development of a novel monosaccharide substitution matrix for improved comparison of glycan structures.. <i>Carbohydrate Research</i> , 2022 , 511, 108496 | 2.9 |
| 11 | RDFizing the biosynthetic pathway of E.coli O-antigen to enable semantic sharing of microbiology data. <i>BMC Microbiology</i> , 2021 , 21, 325 | 4.5 |
| 10 | Functional glyco-metagenomics elucidates the role of glycan-related genes in environments. <i>BMC Bioinformatics</i> , 2021 , 22, 505 | 3.6 |
| 9 | Systems Approach to Metabolism 1 | |
| 8 | Educational Materials and Training for Glycosciences 2019 , 355-368 | |
| 7 | BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. <i>F1000Research</i> , 8, 1677 | 3.6 |
| 6 | Glycan Bioinformatics: Informatics Methods for Understanding Glycan Function 2021 , | |
| 5 | RINGS 2015 , 201-207 | |
| 4 | 2nd FCCA Symposium/Annual Forum for Young Glyco-Scientists 2015. <i>Trends in Glycoscience and Glycotechnology</i> , 2015 , 27, E63-E64 | 0.1 |
| 3 | RINGS 2014 , 1-6 | |
| 2 | Glycoinformatics Overview 2014 , 1-8 | |
| 1 | Functions of Glycosylation and Related Web Resources for Its Prediction. <i>Methods in Molecular Biology</i> , 2022 , 135-144 | 1.4 |