Kiyoko F Aoki-Kinoshita

List of Publications by Year in Descending Order

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	Development of a novel monosaccharide substitution matrix for improved comparison of glycan structures.. *Carbohydrate Research*, **2022**, 511, 108496	2.9	
104	Functions of Glycosylation and Related Web Resources for Its Prediction. *Methods in Molecular Biology*, **2022**, 135-144	1.4	
103	Glycoproteomics. *Nature Reviews Methods Primers*, **2022**, 2,		4
102	RDFizing the biosynthetic pathway of E.coli O-antigen to enable semantic sharing of microbiology data. *BMC Microbiology*, **2021**, 21, 325	4.5	
101	Functional glyco-metagenomics elucidates the role of glycan-related genes in environments. *BMC Bioinformatics*, **2021**, 22, 505	3.6	
100	Glycan Bioinformatics: Informatics Methods for Understanding Glycan Function **2021**,		
99	GlycoPOST realizes FAIR principles for glycomics mass spectrometry data. *Nucleic Acids Research*, **2021**, 49, D1523-D1528	20.1	28
98	The international glycan repository GlyTouCan version 3.0. *Nucleic Acids Research*, **2021**, 49, D1529-D1533	20.1	13
97	LM-GlycomeAtlas Ver. 2.0: An Integrated Visualization for Lectin Microarray-based Mouse Tissue Glycome Mapping Data with Lectin Histochemistry. *Journal of Proteome Research*, **2021**, 20, 2069-2075	5.6	1
96	Global mapping of glycosylation pathways in human-derived cells. *Developmental Cell*, **2021**, 56, 1195-1209.e7	10.1	16
95	Enhanced validation of small-molecule ligands and carbohydrates in the Protein Data Bank. *Structure*, **2021**, 29, 393-400.e1	5.2	7
94	Glycome informatics: using systems biology to gain mechanistic insights into glycan biosynthesis. *Current Opinion in Chemical Engineering*, **2021**, 32, 100683	5.4	0
93	Glycoinformatics Resources Integrated Through the GlySpace Alliance **2021**, 507-521		0
92	The glycoconjugate ontology (GlycoCoO) for standardizing the annotation of glycoconjugate data and its application. *Glycobiology*, **2021**, 31, 741-750	5.8	1
91	The GlyCosmos Portal: a unified and comprehensive web resource for the glycosciences. *Nature Methods*, **2020**, 17, 649-650	21.6	34
90	GlyGen data model and processing workflow. *Bioinformatics*, **2020**, 36, 3941-3943	7.2	10
89	A consensus-based and readable extension of near de for eaction ules (LiCoRR). *Beilstein Journal of Organic Chemistry*, **2020**, 16, 2645-2662	2.5	8

88	The GlySpace Alliance: toward a collaborative global glycoinformatics community. *Glycobiology*, **2020**, 30, 70-71	5.8	15
87	GlyGen: Computational and Informatics Resources for Glycoscience. *Glycobiology*, **2020**, 30, 72-73	5.8	53
86	LM-GlycomeAtlas Ver. 1.0: A Novel Visualization Tool for Lectin Microarray-Based Glycomic Profiles of Mouse Tissue Sections. *Molecules*, **2019**, 24,	4.8	5
85	Updates to the Symbol Nomenclature for Glycans guidelines. *Glycobiology*, **2019**, 29, 620-624	5.8	148
84	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. *Nature Communications*, **2019**, 10, 3275	17.4	42
83	Educational Materials and Training for Glycosciences **2019**, 355-368		
82	GlycanFormatConverter: a conversion tool for translating the complexities of glycans. *Bioinformatics*, **2019**, 35, 2434-2440	7.2	10
81	Analyzing Glycan-Binding Profiles Using Weighted Multiple Alignment of Trees. *Methods in Molecular Biology*, **2018**, 1807, 131-140	1.4	1
80	Systems glycomics of adult zebrafish identifies organ-specific sialylation and glycosylation patterns. *Nature Communications*, **2018**, 9, 4647	17.4	40
79	MCAW-DB: A glycan profile database capturing the ambiguity of glycan recognition patterns. *Carbohydrate Research*, **2018**, 464, 44-56	2.9	13
78	Implementation of GlycanBuilder to draw a wide variety of ambiguous glycans. *Carbohydrate Research*, **2017**, 445, 104-116	2.9	24
77	Development and application of an algorithm to compute weighted multiple glycan alignments. *Bioinformatics*, **2017**, 33, 1317-1323	7.2	8
76	WURCS 2.0 Update To Encapsulate Ambiguous Carbohydrate Structures. *Journal of Chemical Information and Modeling*, **2017**, 57, 632-637	6.1	32
75	Development of Carbohydrate Nomenclature and Representation **2017**, 7-25		3
74	GlyTouCan: an accessible glycan structure repository. *Glycobiology*, **2017**, 27, 915-919	5.8	86
73	Latest developments in Semantic Web technologies applied to the glycosciences. *Perspectives in Science*, **2017**, 11, 18-23	0.8	0
72	GlycoGene Database (GGDB) on the Semantic Web **2017**, 163-175		3
71	PAConto: RDF Representation of PACDB Data and Ontology of Infectious Diseases Known to Be Related to Glycan Binding **2017**, 261-295		1

70	Using GlyTouCan Version 1.0: The First International Glycan Structure Repository **2017**, 41-73		0
69	RINGS: A Web Resource of Tools for Analyzing Glycomics Data **2017**, 299-334		0
68	GlyTouCan 1.0--The international glycan structure repository. *Nucleic Acids Research*, **2016**, 44, D1237-42	20.1	72
67	Comprehensive analysis of the N-glycan biosynthetic pathway using bioinformatics to generate UniCorn: A theoretical N-glycan structure database. *Carbohydrate Research*, **2016**, 431, 56-63	2.9	26
66	A systematic framework to derive N-glycan biosynthesis process and the automated construction of glycosylation networks. *BMC Bioinformatics*, **2016**, 17 Suppl 7, 240	3.6	8
65	The Glycome Analytics Platform: an integrative framework for glycobioinformatics. *Bioinformatics*, **2016**, 32, 3005-11	7.2	5
64	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. *Glycobiology*, **2016**, 26, 907-910	5.8	44
63	On using physico-chemical properties of amino acids in string kernels for protein classification via support vector machines. *Journal of Systems Science and Complexity*, **2015**, 28, 504-516	1	
62	The Lectin Frontier Database (LfDB), and data generation based on frontal affinity chromatography. *Molecules*, **2015**, 20, 951-73	4.8	37
61	Symbol Nomenclature for Graphical Representations of Glycans. *Glycobiology*, **2015**, 25, 1323-4	5.8	585
60	GlycoRDF: an ontology to standardize glycomics data in RDF. *Bioinformatics*, **2015**, 31, 919-25	7.2	42
59	Phenotype-based clustering of glycosylation-related genes by RNAi-mediated gene silencing. *Genes To Cells*, **2015**, 20, 521-42	2.3	18
58	Implementation of linked data in the life sciences at BioHackathon 2011. *Journal of Biomedical Semantics*, **2015**, 6, 3	2.2	13
57	Analyzing glycan structure synthesis with the Glycan Pathway Predictor (GPP) Tool. *Methods in Molecular Biology*, **2015**, 1273, 139-47	1.4	5
56	Analyzing glycan-binding patterns with the ProfilePSTMM Tool. *Methods in Molecular Biology*, **2015**, 1273, 193-202	1.4	1
55	Glycomic analysis using KEGG GLYCAN. *Methods in Molecular Biology*, **2015**, 1273, 97-107	1.4	13
54	Glycoinformatics: Overview **2015**, 185-192		1
53	RINGS **2015**, 201-207		

52	2nd FCCA Symposium/Annual Forum for Young Glyco-Scientists 2015. *Trends in Glycoscience and Glycotechnology*, **2015**, 27, E63-E64	0.1	
51	WURCS: the Web3 unique representation of carbohydrate structures. *Journal of Chemical Information and Modeling*, **2014**, 54, 1558-66	6.1	48
50	UniCarbKB: building a knowledge platform for glycoproteomics. *Nucleic Acids Research*, **2014**, 42, D215-21	10.1	133
49	Frequent glycan structure mining of influenza virus data revealed a sulfated glycan motif that increased viral infection. *Bioinformatics*, **2014**, 30, 706-11	7.2	11
48	Trends and Future Perspectives for Glycoinformatics. *Trends in Glycoscience and Glycotechnology*, **2014**, 26, 89-97	0.1	1
47	MIRAGE: the minimum information required for a glycomics experiment. *Glycobiology*, **2014**, 24, 402-6	5.8	84
46	Knowledge discovery for pancreatic cancer using inductive logic programming. *IET Systems Biology*, **2014**, 8, 162-8	1.4	2
45	BioHackathon series in 2011 and 2012: penetration of ontology and linked data in life science domains. *Journal of Biomedical Semantics*, **2014**, 5, 5	2.2	42
44	Toolboxes for a standardised and systematic study of glycans. *BMC Bioinformatics*, **2014**, 15 Suppl 1, S9	3.6	56
43	RINGS **2014**, 1-6		
42	Glycoinformatics Overview **2014**, 1-8		
41	Introducing glycomics data into the Semantic Web. *Journal of Biomedical Semantics*, **2013**, 4, 39	2.2	44
40	Introduction to informatics in glycoprotein analysis. *Methods in Molecular Biology*, **2013**, 951, 257-67	1.4	6
39	Mining frequent subtrees in glycan data using the RINGS glycan miner tool. *Methods in Molecular Biology*, **2013**, 939, 87-95	1.4	5
38	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. *Glycobiology*, **2013**, 23, 1422-1424	5.8	8
37	Using databases and web resources for glycomics research. *Molecular and Cellular Proteomics*, **2013**, 12, 1036-45	7.6	35
36	Identification of proteasome components required for apical localization of Chaoptin using functional genomics. *Journal of Neurogenetics*, **2012**, 26, 53-63	1.6	4
35	Modeling genetic regulatory networks: a delay discrete dynamical model approach. *Journal of Systems Science and Complexity*, **2012**, 25, 1052-1067	1	2

34	The GlycomeAtlas tool for visualizing and querying glycome data. *Bioinformatics*, **2012**, 28, 2849-50	7.2	26
33	Multiple Tree Alignment with Weights Applied to Carbohydrates to Extract Binding Recognition Patterns. *Lecture Notes in Computer Science*, **2012**, 49-58	0.9	6
32	The 2nd DBCLS BioHackathon: interoperable bioinformatics Web services for integrated applications. *Journal of Biomedical Semantics*, **2011**, 2, 4	2.2	15
31	UniCarbKB: putting the pieces together for glycomics research. *Proteomics*, **2011**, 11, 4117-21	4.8	47
30	Informatics for Glycobiology and Glycomics **2011**, 409-426		
29	Extracting glycan motifs using a biochemicallyweighted kernel. *Bioinformation*, **2011**, 7, 405-12	1.1	4
28	Identification of genes required for neural-specific glycosylation using functional genomics. *PLoS Genetics*, **2010**, 6, e1001254	6	24
27	Support Vector Machine Methods for the Prediction of Cancer Growth **2010**,		1
26	The RINGS resource for glycome informatics analysis and data mining on the Web. *OMICS A Journal of Integrative Biology*, **2010**, 14, 475-86	3.8	49
25	A weighted q-gram method for glycan structure classification. *BMC Bioinformatics*, **2010**, 11 Suppl 1, S33	3.6	9
24	The DBCLS BioHackathon: standardization and interoperability for bioinformatics web services and workflows. The DBCLS BioHackathon Consortium*. *Journal of Biomedical Semantics*, **2010**, 1, 8	2.2	24
23	Using KEGG in the Transition from Genomics to Chemical Genomics **2009**, 437-452		2
22	Using glycome databases for drug discovery. *Expert Opinion on Drug Discovery*, **2008**, 3, 877-90	6.2	4
21	A new efficient probabilistic model for mining labeled ordered trees applied to glycobiology. *ACM Transactions on Knowledge Discovery From Data*, **2008**, 2, 1-30	4	6
20	An introduction to bioinformatics for glycomics research. *PLoS Computational Biology*, **2008**, 4, e1000075	5	47
19	An Efficient Unordered Tree Kernel and Its Application to Glycan Classification **2008**, 184-195		7
18	Gene annotation and pathway mapping in KEGG. *Methods in Molecular Biology*, **2007**, 396, 71-91	1.4	196
17	ProfilePSTMM: capturing tree-structure motifs in carbohydrate sugar chains. *Bioinformatics*, **2006**, 22, e25-34	7.2	25

16	A new efficient probabilistic model for mining labeled ordered trees **2006**,		6
15	KEGG as a glycome informatics resource. *Glycobiology*, **2006**, 16, 63R-70R	5.8	231
14	Improving MHC binding peptide prediction by incorporating binding data of auxiliary MHC molecules. *Bioinformatics*, **2006**, 22, 1648-55	7.2	35
13	From genomics to chemical genomics: new developments in KEGG. *Nucleic Acids Research*, **2006**, 34, D354-7	2.71	2267
12	Overview of KEGG applications to omics-related research. *Journal of Pesticide Sciences*, **2006**, 31, 296-299	2.7	17
11	A 6-Approximation Algorithm for Computing Smallest Common AoN-Supertree with Application to the Reconstruction of Glycan Trees. *Lecture Notes in Computer Science*, **2006**, 100-110	0.9	1
10	Bioinformatics approaches in glycomics and drug discovery. *Current Opinion in Molecular Therapeutics*, **2006**, 8, 514-20		12
9	A gram distribution kernel applied to glycan classification and motif extraction. *Genome Informatics* , **2006**, 17, 25-34		12
8	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	4.2	15
7	A global representation of the carbohydrate structures: a tool for the analysis of glycan. *Genome Informatics*, **2005**, 16, 214-22		7
6	Bioinformatics Analysis of Glycan Structures from a Genomic Perspective125-141		
5	Glycome Informatics: Methods and Applications		7
4	Systems Approach to Metabolism1		
3	BioHackathon series in 2013 and 2014: improvements of semantic interoperability in life science data and services. *F1000Research*,8, 1677	3.6	
2	A consensus-based and readable extension of Linear Code for Reaction Rules (LiCoRR)		1
1	e-workflow for recording of glycomic mass spectrometric data in compliance with reporting guidelines		3