

# L Renee Ruhaak

## List of Publications by Citations

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74  
papers

4,276  
citations

34  
h-index

65  
g-index

76  
ext. papers

5,008  
ext. citations

5.9  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
74	Glycan labeling strategies and their use in identification and quantification. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 397, 3457-81	4.4	346
73	Glycans in the immune system and The Altered Glycan Theory of Autoimmunity: a critical review. <i>Journal of Autoimmunity</i> , <b>2015</b> , 57, 1-13	15.5	274
72	Oligosaccharide analysis by mass spectrometry: a review of recent developments. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 196-212	7.8	257
71	IgG glycosylation analysis. <i>Proteomics</i> , <b>2009</b> , 9, 882-913	4.8	254
70	Loci associated with N-glycosylation of human immunoglobulin G show pleiotropy with autoimmune diseases and haematological cancers. <i>PLoS Genetics</i> , <b>2013</b> , 9, e1003225	6	242
69	Mass Spectrometry Approaches to Glycomic and Glycoproteomic Analyses. <i>Chemical Reviews</i> , <b>2018</b> , 118, 7886-7930	68.1	179
68	Hydrophilic interaction chromatography-based high-throughput sample preparation method for N-glycan analysis from total human plasma glycoproteins. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6119-26	7.8	177
67	Oligosaccharide analysis by graphitized carbon liquid chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 163-74	4.4	159
66	Comprehensive profiles of human milk oligosaccharides yield highly sensitive and specific markers for determining secretor status in lactating mothers. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 6124-33	5.6	135
65	2-picoline-borane: a non-toxic reducing agent for oligosaccharide labeling by reductive amination. <i>Proteomics</i> , <b>2010</b> , 10, 2330-6	4.8	125
64	Evaluation of a vaporizing device (Volcano) for the pulmonary administration of tetrahydrocannabinol. <i>Journal of Pharmaceutical Sciences</i> , <b>2006</b> , 95, 1308-17	3.9	119
63	Optimized workflow for preparation of APTS-labeled N-glycans allowing high-throughput analysis of human plasma glycomes using 48-channel multiplexed CGE-LIF. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 6655-64	5.6	114
62	Glycosylation of human milk lactoferrin exhibits dynamic changes during early lactation enhancing its role in pathogenic bacteria-host interactions. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, M111.015248	7.6	113
61	Developments in the identification of glycan biomarkers for the detection of cancer. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 846-55	7.6	110
60	Immunoglobulin G glycopeptide profiling by matrix-assisted laser desorption ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 1073-81	7.8	98
59	Absolute quantitation of immunoglobulin G and its glycoforms using multiple reaction monitoring. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 8585-93	7.8	95
58	Decreased levels of bisecting GlcNAc glycoforms of IgG are associated with human longevity. <i>PLoS ONE</i> , <b>2010</b> , 5, e12566	3.7	88

57	Plasma protein N-glycan profiles are associated with calendar age, familial longevity and health. <i>Journal of Proteome Research</i> , <b>2011</b> , 10, 1667-74	5.6	82
56	Evaluation of the cyclooxygenase inhibiting effects of six major cannabinoids isolated from <i>Cannabis sativa</i> . <i>Biological and Pharmaceutical Bulletin</i> , <b>2011</b> , 34, 774-8	2.3	79
55	Detection of milk oligosaccharides in plasma of infants. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 5775-84	4.4	77
54	Subclass-specific IgG glycosylation is associated with markers of inflammation and metabolic health. <i>Scientific Reports</i> , <b>2017</b> , 7, 12325	4.9	74
53	Label-free absolute quantitation of oligosaccharides using multiple reaction monitoring. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 2640-7	7.8	68
52	Advances in analysis of human milk oligosaccharides. <i>Advances in Nutrition</i> , <b>2012</b> , 3, 406S-14S	10	63
51	A Method for Comprehensive Glycosite-Mapping and Direct Quantitation of Serum Glycoproteins. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 5179-92	5.6	56
50	N-Glycan profiling of dried blood spots. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 396-402	7.8	54
49	Human Plasma N-glycosylation as Analyzed by Matrix-Assisted Laser Desorption/Ionization-Fourier Transform Ion Cyclotron Resonance-MS Associates with Markers of Inflammation and Metabolic Health. <i>Molecular and Cellular Proteomics</i> , <b>2017</b> , 16, 228-242	7.6	46
48	Protein-Specific Differential Glycosylation of Immunoglobulins in Serum of Ovarian Cancer Patients. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 1002-10	5.6	43
47	Total plasma N-glycome changes during pregnancy. <i>Journal of Proteome Research</i> , <b>2014</b> , 13, 1657-68	5.6	43
46	Differential N-Glycosylation Patterns in Lung Adenocarcinoma Tissue. <i>Journal of Proteome Research</i> , <b>2015</b> , 14, 4538-49	5.6	42
45	Serum glycan signatures of gastric cancer. <i>Cancer Prevention Research</i> , <b>2014</b> , 7, 226-35	3.2	41
44	Rapid-throughput glycomics applied to human milk oligosaccharide profiling for large human studies. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 7925-35	4.4	41
43	The Serum Immunoglobulin G Glycosylation Signature of Gastric Cancer. <i>EuPA Open Proteomics</i> , <b>2015</b> , 6, 1-9	0.1	37
42	Targeted biomarker discovery by high throughput glycosylation profiling of human plasma alpha1-antitrypsin and immunoglobulin A. <i>PLoS ONE</i> , <b>2013</b> , 8, e73082	3.7	37
41	Analysis and role of oligosaccharides in milk. <i>BMB Reports</i> , <b>2012</b> , 45, 442-51	5.5	36
40	Evaluation of glycomic profiling as a diagnostic biomarker for epithelial ovarian cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2014</b> , 23, 611-21	4	34

39	Chip-based nLC-TOF-MS is a highly stable technology for large-scale high-throughput analyses. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 4953-8	4.4	33
38	Enrichment strategies in glycomics-based lung cancer biomarker development. <i>Proteomics - Clinical Applications</i> , <b>2013</b> , 7, 664-76	3.1	29
37	Applications of Multiple Reaction Monitoring to Clinical Glycomics. <i>Chromatographia</i> , <b>2015</b> , 78, 335-342	2.1	27
36	Multiple Reaction Monitoring for the Quantitation of Serum Protein Glycosylation Profiles: Application to Ovarian Cancer. <i>Journal of Proteome Research</i> , <b>2018</b> , 17, 222-233	5.6	25
35	Isomer-specific consumption of galactooligosaccharides by bifidobacterial species. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 12612-12619	5.7	21
34	Glycoproteomic Analysis of Malignant Ovarian Cancer Ascites Fluid Identifies Unusual Glycopeptides. <i>Journal of Proteome Research</i> , <b>2016</b> , 15, 3358-76	5.6	21
33	Effects of imputation on correlation: implications for analysis of mass spectrometry data from multiple biological matrices. <i>Briefings in Bioinformatics</i> , <b>2017</b> , 18, 312-320	13.4	20
32	Hexapeptide library as a universal tool for sample preparation in protein glycosylation analysis. <i>Journal of Proteomics</i> , <b>2012</b> , 75, 1515-28	3.9	19
31	Apolipoprotein profiling as a personalized approach to the diagnosis and treatment of dyslipidaemia. <i>Annals of Clinical Biochemistry</i> , <b>2019</b> , 56, 338-356	2.2	18
30	Apolipoproteins A1, B, and apoB/apoA1 ratio are associated with first ST-segment elevation myocardial infarction but not with recurrent events during long-term follow-up. <i>Clinical Research in Cardiology</i> , <b>2019</b> , 108, 520-538	6.1	18
29	Urinary TIMP-2 Predicts the Presence and Duration of Delayed Graft Function in Donation After Circulatory Death Kidney Transplant Recipients. <i>Transplantation</i> , <b>2019</b> , 103, 1014-1023	1.8	16
28	Robust and Accurate 2-Year Performance of a Quantitative Mass Spectrometry-Based Apolipoprotein Test in a Clinical Chemistry Laboratory. <i>Clinical Chemistry</i> , <b>2018</b> , 64, 747-749	5.5	15
27	Targeted On-line SPE-LC-MS/MS Assay for the Quantitation of 12 Apolipoproteins from Human Blood. <i>Proteomics</i> , <b>2018</b> , 18, 1700279	4.8	15
26	Alignment of laser-induced fluorescence and mass spectrometric detection traces using electrophoretic mobility scaling in CE-LIF-MS of labeled N-glycans. <i>Electrophoresis</i> , <b>2012</b> , 33, 563-6	3.6	15
25	Kidney Injury Biomarkers in an Academic Hospital Setting: Where Are We Now?. <i>Clinical Biochemist Reviews</i> , <b>2019</b> , 40, 79-97	7.3	12
24	HILIC-MRM-MS for Linkage-Specific Separation of Sialylated Glycopeptides to Quantify Prostate-Specific Antigen Proteoforms. <i>Journal of Proteome Research</i> , <b>2020</b> , 19, 2708-2716	5.6	12
23	Serum Glycans as Risk Markers for Non-Small Cell Lung Cancer. <i>Cancer Prevention Research</i> , <b>2016</b> , 9, 317-323		11
22	Towards an SI-Traceable Reference Measurement System for Seven Serum Apolipoproteins Using Bottom-Up Quantitative Proteomics: Conceptual Approach Enabled by Cross-Disciplinary/Cross-Sector Collaboration. <i>Clinical Chemistry</i> , <b>2021</b> , 67, 478-489	5.5	11

21	Prospective applications of ultrahigh resolution proteomics in clinical mass spectrometry. <i>Expert Review of Proteomics</i> , <b>2016</b> , 13, 1063-1071	4.2	10
20	Association of apolipoproteins C-I, C-II, C-III and E with coagulation markers and venous thromboembolism risk. <i>Clinical Epidemiology</i> , <b>2019</b> , 11, 625-633	5.9	10
19	Robust and high-throughput sample preparation for (semi-)quantitative analysis of N-glycosylation profiles from plasma samples. <i>Methods in Molecular Biology</i> , <b>2012</b> , 893, 371-85	1.4	9
18	Detecting molecular forms of antithrombin by LC-MRM-MS: defining the measurands. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2018</b> , 56, 1704-1714	5.9	8
17	Analysis of Milk Oligosaccharides by Mass Spectrometry. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1503, 121-129	1.2	7
16	A site-specific map of the human plasma glycome and its age and gender-associated alterations. <i>Scientific Reports</i> , <b>2020</b> , 10, 17505	4.9	7
15	Classification for Longevity Potential: The Use of Novel Biomarkers. <i>Frontiers in Public Health</i> , <b>2016</b> , 4, 233	6	7
14	MS-based proteomics: a metrological sound and robust alternative for apolipoprotein E phenotyping in a multiplexed test. <i>Clinical Chemistry and Laboratory Medicine</i> , <b>2019</b> , 57, e102-e104	5.9	6
13	Systematic Evaluation of Normalization Methods for Glycomics Data Based on Performance of Network Inference. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	5
12	The Use of Multiple Reaction Monitoring on QQQ-MS for the Analysis of Protein- and Site-Specific Glycosylation Patterns in Serum. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1503, 63-82	1.4	5
11	The Time Has Come for Quantitative Protein Mass Spectrometry Tests That Target Unmet Clinical Needs. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2021</b> , 32, 636-647	3.5	5
10	Mass spectrometry in clinical glycomics: The path from biomarker identification to clinical implementation. <i>Clinical Mass Spectrometry</i> , <b>2020</b> , 18, 1-12	1.9	4
9	Development and Provisional Validation of a Multiplex LC-MRM-MS Test for Timely Kidney Injury Detection in Urine. <i>Journal of Proteome Research</i> , <b>2021</b> , 20, 5304-5314	5.6	3
8	Rational selection of a biomarker panel targeting unmet clinical needs in kidney injury. <i>Clinical Proteomics</i> , <b>2021</b> , 18, 10	5	3
7	The predictive value of TIMP-2 and IGFBP7 for kidney failure and 30-day mortality after elective cardiac surgery. <i>Scientific Reports</i> , <b>2021</b> , 11, 1071	4.9	3
6	Urinary Tissue Inhibitor of Metalloproteinases-2 and Insulin-Like Growth Factor-Binding Protein 7 Do Not Correlate With Disease Severity in ADPKD Patients. <i>Kidney International Reports</i> , <b>2019</b> , 4, 833-841	4.1	2
5	Multivariate two-part statistics for analysis of correlated mass spectrometry data from multiple biological specimens. <i>Bioinformatics</i> , <b>2017</b> , 33, 17-25	7.2	2
4	Serum glycosylation characterization of osteonecrosis of the femoral head by mass spectrometry. <i>European Journal of Mass Spectrometry</i> , <b>2018</b> , 24, 178-187	1.1	2

3	Systematic evaluation of normalization methods for glycomics data based on performance of network inference		1
2	Glycan biomarkers of autoimmunity and bile acid-associated alterations of the human glycome: Primary biliary cirrhosis and primary sclerosing cholangitis-specific glycans. <i>Clinical Immunology</i> , <b>2021</b> , 230, 108825	9	0
1	Unraveling a borderline antithrombin deficiency case with quantitative mass spectrometry. <i>Journal of Thrombosis and Haemostasis</i> , <b>2021</b> , 20, 145		15.4