

Anand S Mehta

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

5,145
citations

101543

36
h-index

88630

70
g-index

90
all docs

90
docs citations

90
times ranked

4780
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular viral oncology of hepatocellular carcinoma. <i>Oncogene</i> , 2003, 22, 5093-5107.	5.9	463
2	Use of targeted glycoproteomics to identify serum glycoproteins that correlate with liver cancer in woodchucks and humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 779-784.	7.1	357
3	GP73, a resident Golgi glycoprotein, is a novel serum marker for hepatocellular carcinoma. <i>Journal of Hepatology</i> , 2005, 43, 1007-1012.	3.7	321
4	Human Immunodeficiency Virus-Related Microbial Translocation and Progression of Hepatitis C. <i>Gastroenterology</i> , 2008, 135, 226-233.	1.3	251
5	MALDI Imaging Mass Spectrometry Profiling of N-Glycans in Formalin-Fixed Paraffin Embedded Clinical Tissue Blocks and Tissue Microarrays. <i>PLoS ONE</i> , 2014, 9, e106255.	2.5	198
6	Lectin Capture Strategies Combined with Mass Spectrometry for the Discovery of Serum Glycoprotein Biomarkers. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 1957-1967.	3.8	196
7	Proteomic Analysis of Serum Associated Fucosylated Glycoproteins in the Development of Primary Hepatocellular Carcinoma. <i>Journal of Proteome Research</i> , 2006, 5, 308-315.	3.7	196
8	Linkage-Specific <i>in Situ</i> Sialic Acid Derivatization for N-Glycan Mass Spectrometry Imaging of Formalin-Fixed Paraffin-Embedded Tissues. <i>Analytical Chemistry</i> , 2016, 88, 5904-5913.	6.5	158
9	Matrix Assisted Laser Desorption Ionization Imaging Mass Spectrometry Workflow for Spatial Profiling Analysis of N-Linked Glycan Expression in Tissues. <i>Analytical Chemistry</i> , 2013, 85, 9799-9806.	6.5	148
10	Identification and Development of Fucosylated Glycoproteins as Biomarkers of Primary Hepatocellular Carcinoma. <i>Journal of Proteome Research</i> , 2009, 8, 595-602.	3.7	139
11	Novel Fucosylated Biomarkers for the Early Detection of Hepatocellular Carcinoma. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2009, 18, 1914-1921.	2.5	136
12	Glycosylation and Liver Cancer. <i>Advances in Cancer Research</i> , 2015, 126, 257-279.	5.0	128
13	Linkage Specific Fucosylation of Alpha-1-Antitrypsin in Liver Cirrhosis and Cancer Patients: Implications for a Biomarker of Hepatocellular Carcinoma. <i>PLoS ONE</i> , 2010, 5, e12419.	2.5	114
14	Increased Levels of Galactose-Deficient Anti-Gal Immunoglobulin G in the Sera of Hepatitis C Virus-Infected Individuals with Fibrosis and Cirrhosis. <i>Journal of Virology</i> , 2008, 82, 1259-1270.	3.4	110
15	Two-Dimensional N-Glycan Distribution Mapping of Hepatocellular Carcinoma Tissues by MALDI-Imaging Mass Spectrometry. <i>Biomolecules</i> , 2015, 5, 2554-2572.	4.0	99
16	Multimodal Mass Spectrometry Imaging of <i>N</i> -Glycans and Proteins from the Same Tissue Section. <i>Analytical Chemistry</i> , 2016, 88, 7745-7753.	6.5	86
17	<i>N</i> -linked glycosylation of the liver cancer biomarker GP73. <i>Journal of Cellular Biochemistry</i> , 2008, 104, 136-149.	2.6	83
18	A research agenda for curing chronic hepatitis B virus infection. <i>Hepatology</i> , 2018, 67, 1127-1131.	7.3	70

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19	Mapping Extracellular Matrix Proteins in Formalin-Fixed, Paraffin-Embedded Tissues by MALDI Imaging Mass Spectrometry. <i>Journal of Proteome Research</i> , 2018, 17, 635-646.	3.7	70
20	GALAD demonstrates high sensitivity for HCC surveillance in a cohort of patients with cirrhosis. <i>Hepatology</i> , 2022, 75, 541-549.	7.3	70
21	In Situ Imaging of N-Glycans by MALDI Imaging Mass Spectrometry of Fresh or Formalin-Fixed Paraffin-Embedded Tissue. <i>Current Protocols in Protein Science</i> , 2018, 94, e68.	2.8	69
22	Biomarkers for the Early Detection of Hepatocellular Carcinoma. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2020, 29, 2495-2503.	2.5	67
23	Increased bisecting <i>N</i> -acetylglucosamine and decreased branched chain glycans of <i>N</i> -linked glycoproteins in expressed prostatic secretions associated with prostate cancer progression. <i>Proteomics - Clinical Applications</i> , 2013, 7, 677-689.	1.6	65
24	Increased Levels of Tetra-antennary <i>N</i> -Linked Glycan but Not Core Fucosylation Are Associated with Hepatocellular Carcinoma Tissue. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2012, 21, 925-933.	2.5	64
25	Inhibition of Endoplasmic Reticulum-Resident Glucosidases Impairs Severe Acute Respiratory Syndrome Coronavirus and Human Coronavirus NL63 Spike Protein-Mediated Entry by Altering the Glycan Processing of Angiotensin I-Converting Enzyme 2. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 206-216.	3.2	63
26	Fucosylated Glycoproteins as Markers of Liver Disease. <i>Disease Markers</i> , 2008, 25, 259-265.	1.3	61
27	N-Linked Glycan Branching and Fucosylation Are Increased Directly in Hcc Tissue As Determined through in Situ Glycan Imaging. <i>Journal of Proteome Research</i> , 2018, 17, 3454-3462.	3.7	58
28	Imaging Mass Spectrometry and Lectin Analysis of N-Linked Glycans in Carbohydrate Antigen-Defined Pancreatic Cancer Tissues. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100012.	3.8	57
29	Comparative proteomic analysis of de-N-glycosylated serum from hepatitis B carriers reveals polypeptides that correlate with disease status. <i>Proteomics</i> , 2004, 4, 826-838.	2.2	56
30	MALDI Imaging Mass Spectrometry of N-glycans and Tryptic Peptides from the Same Formalin-Fixed, Paraffin-Embedded Tissue Section. <i>Methods in Molecular Biology</i> , 2017, 1788, 225-241.	0.9	50
31	Increases in Tumor N-Glycan Polylactosamines Associated with Advanced HER2-Positive and Triple-Negative Breast Cancer Tissues. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800014.	1.6	50
32	The Doylestown Algorithm: A Test to Improve the Performance of AFP in the Detection of Hepatocellular Carcinoma. <i>Cancer Prevention Research</i> , 2016, 9, 172-179.	1.5	48
33	Changes in the Glycosylation of Kininogen and the Development of a Kininogen-Based Algorithm for the Early Detection of HCC. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2017, 26, 795-803.	2.5	48
34	Extracellular Matrix Imaging of Breast Tissue Pathologies by MALDI-Imaging Mass Spectrometry. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1700152.	1.6	44
35	Defining the human kidney N-glycome in normal and cancer tissues using MALDI imaging mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4490.	1.6	40
36	Development of recombinant Aleuria aurantia lectins with altered binding specificities to fucosylated glycans. <i>Biochemical and Biophysical Research Communications</i> , 2011, 414, 84-89.	2.1	39

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37	MALDI Mass Spectrometry Imaging of N-Linked Glycans in Tissues. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1104, 59-76.	1.6	38
38	A Novel Mass Spectrometry Platform for Multiplexed N-Glycoprotein Biomarker Discovery from Patient Biofluids by Antibody Panel Based N-Glycan Imaging. <i>Analytical Chemistry</i> , 2019, 91, 8429-8435.	6.5	38
39	Multiplexed imaging mass spectrometry of the extracellular matrix using serial enzyme digests from formalin-fixed paraffin-embedded tissue sections. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2709-2719.	3.7	37
40	Novel Changes in Glycosylation of Serum Apo-J in Patients with Hepatocellular Carcinoma. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2011, 20, 1222-1229.	2.5	36
41	New Enzymatic Approach to Distinguish Fucosylation Isomers of N-Linked Glycans in Tissues Using MALDI Imaging Mass Spectrometry. <i>Journal of Proteome Research</i> , 2020, 19, 2989-2996.	3.7	33
42	Applications and continued evolution of glycan imaging mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2023, 42, 674-705.	5.4	33
43	Core-Fucosylated Tetra-Antennary N-Glycan Containing A Single N-Acetylglucosamine Branch Is Associated with Poor Survival Outcome in Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2528.	4.1	32
44	Total serum glycan analysis is superior to lectin-FLISA for the early detection of hepatocellular carcinoma. <i>Proteomics - Clinical Applications</i> , 2013, 7, 690-700.	1.6	30
45	Intrinsic hepatocyte dedifferentiation is accompanied by upregulation of mesenchymal markers, protein sialylation and core alpha 1,6 linked fucosylation. <i>Scientific Reports</i> , 2016, 6, 27965.	3.3	30
46	Development and application of a novel recombinant <i>Aleuria aurantia</i> lectin with enhanced core fucose binding for identification of glycoprotein biomarkers of hepatocellular carcinoma. <i>Proteomics</i> , 2016, 16, 3126-3136.	2.2	29
47	Specific N-linked glycosylation patterns in areas of necrosis in tumor tissues. <i>International Journal of Mass Spectrometry</i> , 2019, 437, 69-76.	1.5	28
48	Rapid N-Glycan Profiling of Serum and Plasma by a Novel Slide-Based Imaging Mass Spectrometry Workflow. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2511-2520.	2.8	28
49	Enhancing the antiviral potency of ER α -glucosidase inhibitor IHVR-19029 against hemorrhagic fever viruses in vitro and in vivo. <i>Antiviral Research</i> , 2018, 150, 112-122.	4.1	26
50	Upregulation of Glycans Containing α 2 Fucose in a Subset of Pancreatic Cancers Uncovered Using Fusion-Tagged Lectins. <i>Journal of Proteome Research</i> , 2015, 14, 2594-2605.	3.7	24
51	Glycoproteins: Rapid Sequencing Technology for N-linked and GPI Anchor Glycans. <i>Biotechnology and Genetic Engineering Reviews</i> , 1999, 16, 1-22.	6.2	23
52	Nuclear PFKF promotes CXCR4-dependent infiltration by T cell acute lymphoblastic leukemia. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	23
53	Altered Functionality of Anti-Bacterial Antibodies in Patients with Chronic Hepatitis C Virus Infection. <i>PLoS ONE</i> , 2013, 8, e64992.	2.5	22
54	Doylestown Plus and GALAD Demonstrate High Sensitivity for HCC Detection in Patients With Cirrhosis. <i>Clinical Gastroenterology and Hepatology</i> , 2022, 20, 953-955.e2.	4.4	21

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55	N-Glycosylation Patterns Correlate with Hepatocellular Carcinoma Genetic Subtypes. <i>Molecular Cancer Research</i> , 2021, 19, 1868-1877.	3.4	21
56	Expression of genes that control core fucosylation in hepatocellular carcinoma: Systematic review. <i>World Journal of Gastroenterology</i> , 2019, 25, 2947-2960.	3.3	21
57	A comparison of statistical methods for the detection of hepatocellular carcinoma based on serum biomarkers and clinical variables. <i>BMC Medical Genomics</i> , 2013, 6, S9.	1.5	20
58	Host Erythrocyte Environment Influences the Localization of Exported Protein 2, an Essential Component of the Plasmodium Translocon. <i>Eukaryotic Cell</i> , 2015, 14, 371-384.	3.4	18
59	Identification of fucosylated Fetuin as a potential biomarker for cholangiocarcinoma. <i>Proteomics - Clinical Applications</i> , 2017, 11, 1600141.	1.6	18
60	A Rapid Array-Based Approach to N-Glycan Profiling of Cultured Cells. <i>Journal of Proteome Research</i> , 2019, 18, 3630-3639.	3.7	18
61	Antibody Panel Based N-Glycan Imaging for N-Glycoprotein Biomarker Discovery. <i>Current Protocols in Protein Science</i> , 2019, 98, e99.	2.8	17
62	Analysis of GP73 in patients with HCC as a function of anti-cancer treatment. <i>Cancer Biomarkers</i> , 2011, 7, 269-273.	1.7	16
63	Spatial N-glycomics of the human aortic valve in development and pediatric endstage congenital aortic valve stenosis. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 154, 6-20.	1.9	16
64	Collagen fiber regulation in human pediatric aortic valve development and disease. <i>Scientific Reports</i> , 2021, 11, 9751.	3.3	15
65	Calcium Phosphate Particles as Pulmonary Delivery System for Interferon- β in Mice. <i>AAPS PharmSciTech</i> , 2018, 19, 395-412.	3.3	14
66	The search for biomarkers of hepatocellular carcinoma and the impact on patient outcome. <i>Current Opinion in Pharmacology</i> , 2018, 41, 74-78.	3.5	14
67	Defining the Tumor Microenvironment by Integration of Immunohistochemistry and Extracellular Matrix Targeted Imaging Mass Spectrometry. <i>Cancers</i> , 2021, 13, 4419.	3.7	14
68	Multiplexed Imaging Mass Spectrometry of Histological Staining, N-Glycan and Extracellular Matrix from One Tissue Section: A Tool for Fibrosis Research. <i>Methods in Molecular Biology</i> , 2021, 2350, 313-329.	0.9	13
69	Glycan Imaging Mass Spectrometry. <i>Clinics in Laboratory Medicine</i> , 2021, 41, 247-266.	1.4	13
70	Application of the Doylestown algorithm for the early detection of hepatocellular carcinoma. <i>PLoS ONE</i> , 2018, 13, e0203149.	2.5	10
71	Biomarker analysis of fucosylated kininogen through depletion of lectin reactive heterophilic antibodies in hepatocellular carcinoma. <i>Journal of Immunological Methods</i> , 2018, 462, 59-64.	1.4	10
72	Evaluation of Therapeutic Collagen-Based Biomaterials in the Infarcted Mouse Heart by Extracellular Matrix Targeted MALDI Imaging Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 2746-2754.	2.8	8

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73	Imaging Mass Spectrometry Reveals Alterations in N-Linked Glycosylation That Are Associated With Histopathological Changes in Nonalcoholic Steatohepatitis in Mouse and Human. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100225.	3.8	7
74	Identification of IgM as a contaminant in lectin-FLISA assays for HCC detection. <i>Biochemical and Biophysical Research Communications</i> , 2016, 476, 140-145.	2.1	6
75	Analysis of Hepatocellular Carcinoma Tissue for Biomarker Discovery. <i>Molecular and Translational Medicine</i> , 2019, , 93-107.	0.4	6
76	NF- κ B Signaling Is Regulated by Fucosylation in Metastatic Breast Cancer Cells. <i>Biomedicines</i> , 2020, 8, 600.	3.2	4
77	Novel Combined Enzymatic Approach to Analyze Nonsialylated N-Linked Glycans through MALDI Imaging Mass Spectrometry. <i>Journal of Proteome Research</i> , 2022, 21, 1930-1938.	3.7	4
78	Optimization of Multiple Glycosidase and Chemical Stabilization Strategies for N-Glycan Isomer Detection by Mass Spectrometry Imaging in Formalin-Fixed, Paraffin-Embedded Tissues. <i>Methods in Molecular Biology</i> , 2021, 2271, 303-316.	0.9	3
79	Metabolic Links to Socioeconomic Stresses Uniquely Affecting Ancestry in Normal Breast Tissue at Risk for Breast Cancer. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	3
80	Array-Based N-Glycan Profiling of Cells in Culture. <i>Methods in Molecular Biology</i> , 2021, 2271, 331-342.	0.9	2
81	Pro-inflammatory IgG1 N-glycan signature correlates with primary graft dysfunction onset in COPD patients. <i>Transplant Immunology</i> , 2022, 71, 101491.	1.2	2
82	Inside Front Cover: Development and application of a novel recombinant Aleuria aurantia lectin with enhanced core fucose binding for identification of glycoprotein biomarkers of hepatocellular carcinoma. <i>Proteomics</i> , 2016, 16, NA-NA.	2.2	1
83	Liver Cancer (Current Therapies). , 2022, , 112-125.		1
84	Glycosylation and hepatacellular carcinoma. , 2006, , .		0
85	Simple and Rapid Slide-based Mass Spectrometry Workflows Applied to N-glycan Analysis of Cells, Biofluids and Antibody Arrays. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
86	Abstract P5-07-02: Potential differences in stromal patterns from breast cancer metastatic lymph between South Carolina sea islander black women and white women. <i>Cancer Research</i> , 2022, 82, P5-07-02-P5-07-02.	0.9	0
87	MALDI imaging mass spectrometry mapping of the glycocalyx. <i>FASEB Journal</i> , 2022, 36, .	0.5	0