

Muneesh Tewari

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

18,090
citations

185998

28
h-index

98622

67
g-index

77
all docs

77
docs citations

77
times ranked

25898
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating microRNAs as stable blood-based markers for cancer detection. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10513-10518.	3.3	7,047
2	Argonaute2 complexes carry a population of circulating microRNAs independent of vesicles in human plasma. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5003-5008.	3.3	2,852
3	MicroRNA profiling: approaches and considerations. Nature Reviews Genetics, 2012, 13, 358-369.	7.7	1,453
4	Absolute quantification by droplet digital PCR versus analog real-time PCR. Nature Methods, 2013, 10, 1003-1005.	9.0	1,182
5	Analysis of circulating microRNA biomarkers in plasma and serum using quantitative reverse transcription-PCR (qRT-PCR). Methods, 2010, 50, 298-301.	1.9	1,016
6	Quantitative and stoichiometric analysis of the microRNA content of exosomes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14888-14893.	3.3	880
7	Blood Cell Origin of Circulating MicroRNAs: A Cautionary Note for Cancer Biomarker Studies. Cancer Prevention Research, 2012, 5, 492-497.	0.7	784
8	Exosomes in human semen carry a distinctive repertoire of small non-coding RNAs with potential regulatory functions. Nucleic Acids Research, 2014, 42, 7290-7304.	6.5	486
9	Plasma Processing Conditions Substantially Influence Circulating microRNA Biomarker Levels. PLoS ONE, 2013, 8, e64795.	1.1	258
10	Molecular Portraits of Epithelial, Mesenchymal, and Hybrid States in Lung Adenocarcinoma and Their Relevance to Survival. Cancer Research, 2015, 75, 1789-1800.	0.4	179
11	Comparative analysis of circulating tumor DNA stability in K3EDTA, Streck, and CellSave blood collection tubes. Clinical Biochemistry, 2016, 49, 1354-1360.	0.8	175
12	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. Cell, 2019, 177, 231-242.	13.5	152
13	Circulating microRNA Profiling Identifies a Subset of Metastatic Prostate Cancer Patients with Evidence of Cancer-Associated Hypoxia. PLoS ONE, 2013, 8, e69239.	1.1	147
14	Comprehensive multi-center assessment of small RNA-seq methods for quantitative miRNA profiling. Nature Biotechnology, 2018, 36, 746-757.	9.4	134
15	Kinetic fingerprinting to identify and count single nucleic acids. Nature Biotechnology, 2015, 33, 730-732.	9.4	120
16	Monitoring Daily Dynamics of Early Tumor Response to Targeted Therapy by Detecting Circulating Tumor DNA in Urine. Clinical Cancer Research, 2017, 23, 4716-4723.	3.2	102
17	PhosphoRNA-seq: a modified small RNA-seq method that reveals circulating mRNA and lncRNA fragments as potential biomarkers in human plasma. EMBO Journal, 2019, 38, .	3.5	72
18	CitH3: a reliable blood biomarker for diagnosis and treatment of endotoxic shock. Scientific Reports, 2017, 7, 8972.	1.6	60

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19	User-Centered Design Groups to Engage Patients and Caregivers with a Personalized Health Information Technology Tool. <i>Biology of Blood and Marrow Transplantation</i> , 2016, 22, 349-358.	2.0	50
20	BMT Roadmap: A User-Centered Design Health Information Technology Tool to Promote Patient-Centered Care in Pediatric Hematopoietic Cell Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2017, 23, 813-819.	2.0	48
21	Rapid, ultra low coverage copy number profiling of cell-free DNA as a precision oncology screening strategy. <i>Oncotarget</i> , 2017, 8, 89848-89866.	0.8	45
22	High-throughput sequencing of two populations of extracellular vesicles provides an mRNA signature that can be detected in the circulation of breast cancer patients. <i>RNA Biology</i> , 2017, 14, 305-316.	1.5	43
23	Ultraspecific and Amplification-Free Quantification of Mutant DNA by Single-Molecule Kinetic Fingerprinting. <i>Journal of the American Chemical Society</i> , 2018, 140, 11755-11762.	6.6	43
24	Real-time, personalized medicine through wearable sensors and dynamic predictive modeling: A new paradigm for clinical medicine. <i>Current Opinion in Systems Biology</i> , 2020, 20, 17-25.	1.3	38
25	Severe Acute Respiratory Syndrome Coronavirus 2 Total and Subgenomic RNA Viral Load in Hospitalized Patients. <i>Journal of Infectious Diseases</i> , 2021, 224, 1287-1293.	1.9	38
26	Early HPV ctDNA Kinetics and Imaging Biomarkers Predict Therapeutic Response in p16+ Oropharyngeal Squamous Cell Carcinoma. <i>Clinical Cancer Research</i> , 2022, 28, 350-359.	3.2	38
27	Human papilloma virus circulating tumor DNA assay predicts treatment response in recurrent/metastatic head and neck squamous cell carcinoma. <i>Oncotarget</i> , 2021, 12, 1214-1229.	0.8	37
28	Direct kinetic fingerprinting and digital counting of single protein molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22815-22822.	3.3	35
29	A guide to nucleic acid detection by single-molecule kinetic fingerprinting. <i>Methods</i> , 2019, 153, 3-12.	1.9	31
30	Release of Cell-free MicroRNA Tumor Biomarkers into the Blood Circulation with Pulsed Focused Ultrasound: A Noninvasive, Anatomically Localized, Molecular Liquid Biopsy. <i>Radiology</i> , 2017, 283, 158-167.	3.6	30
31	Direct Kinetic Fingerprinting for High-Accuracy Single-Molecule Counting of Diverse Disease Biomarkers. <i>Accounts of Chemical Research</i> , 2021, 54, 388-402.	7.6	30
32	Serum MicroRNA Signature Predicts Response to High-Dose Radiation Therapy in Locally Advanced Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 100, 107-114.	0.4	28
33	Circulating microRNAs and treatment response in the Phase II SWOG S0925 study for patients with new metastatic hormone-sensitive prostate cancer. <i>Prostate</i> , 2018, 78, 121-127.	1.2	28
34	Predicting Acute Graft-Versus-Host Disease Using Machine Learning and Longitudinal Vital Sign Data From Electronic Health Records. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 128-135.	1.0	26
35	Machine learning-based cytokine microarray digital immunoassay analysis. <i>Biosensors and Bioelectronics</i> , 2021, 180, 113088.	5.3	26
36	Targeting the Gut Microbiome to Mitigate Immunotherapy-Induced Colitis in Cancer. <i>Trends in Cancer</i> , 2021, 7, 583-593.	3.8	26

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37	Circulating microRNAs as biomarkers of radiation-induced cardiac toxicity in non-small-cell lung cancer. <i>Journal of Cancer Research and Clinical Oncology</i> , 2019, 145, 1635-1643.	1.2	24
38	A Systematic Review of Machine Learning Techniques in Hematopoietic Stem Cell Transplantation (HSCT). <i>Sensors</i> , 2020, 20, 6100.	2.1	24
39	A Novel Health Information Technology Communication System to Increase Caregiver Activation in the Context of Hospital-Based Pediatric Hematopoietic Cell Transplantation: A Pilot Study. <i>JMIR Research Protocols</i> , 2015, 4, e119.	0.5	23
40	Minimum Technical Data Elements for Liquid Biopsy Data Submitted to Public Databases. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 107, 730-734.	2.3	22
41	Implementation of human papillomavirus circulating tumor DNA to identify recurrence during treatment de-escalation. <i>Oral Oncology</i> , 2021, 121, 105332.	0.8	15
42	Promoting Health and Well-Being Through Mobile Health Technology (Roadmap 2.0) in Family Caregivers and Patients Undergoing Hematopoietic Stem Cell Transplantation: Protocol for the Development of a Mobile Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 2020, 9, e19288.	0.5	15
43	Systematic design and functional analysis of artificial microRNAs. <i>Nucleic Acids Research</i> , 2014, 42, 6064-6077.	6.5	14
44	Ultraspecific analyte detection by direct kinetic fingerprinting of single molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 123, 115764.	5.8	14
45	A Pilot Study of Atezolizumab Plus Hypofractionated Image Guided Radiation Therapy for the Treatment of Advanced Non-Small Cell Lung Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 170-177.	0.4	13
46	Mutant DNA quantification by digital PCR can be confounded by heating during DNA fragmentation. <i>BioTechniques</i> , 2016, 60, 175-185.	0.8	12
47	Tumor characterization by ultrasound-release of multiple protein and microRNA biomarkers, preclinical and clinical evidence. <i>PLoS ONE</i> , 2018, 13, e0194268.	1.1	12
48	Trans-Renal Cell-Free Tumor DNA for Urine-Based Liquid Biopsy of Cancer. <i>Frontiers in Genetics</i> , 2022, 13, 879108.	1.1	12
49	Monitoring Health Care Workers at Risk for COVID-19 Using Wearable Sensors and Smartphone Technology: Protocol for an Observational mHealth Study. <i>JMIR Research Protocols</i> , 2021, 10, e29562.	0.5	10
50	Rapid kinetic fingerprinting of single nucleic acid molecules by a FRET-based dynamic nanosensor. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113433.	5.3	10
51	Consumer-grade wearables identify changes in multiple physiological systems during COVID-19 disease progression. <i>Cell Reports Medicine</i> , 2022, 3, 100601.	3.3	10
52	A functional extracellular transcriptome in animals? implications for biology, disease and medicine. <i>Genome Biology</i> , 2015, 16, 47.	3.8	9
53	Droplet Digital PCR for Absolute Quantification of Extracellular MicroRNAs in Plasma and Serum: Quantification of the Cancer Biomarker hsa-miR-141. <i>Methods in Molecular Biology</i> , 2018, 1768, 459-474.	0.4	9
54	A Pipeline for Faecal Host DNA Analysis by Absolute Quantification of LINE-1 and Mitochondrial Genomic Elements Using ddPCR. <i>Scientific Reports</i> , 2019, 9, 5599.	1.6	9

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55	Platelet-Synthesized Testosterone in Men with Prostate Cancer Induces Androgen Receptor Signaling. <i>Neoplasia</i> , 2015, 17, 490-496.	2.3	8
56	Monitoring Beliefs and Physiological Measures Using Wearable Sensors and Smartphone Technology Among Students at Risk of COVID-19: Protocol for a mHealth Study. <i>JMIR Research Protocols</i> , 2021, 10, e29561.	0.5	8
57	Highly sensitive and quantitative biodetection with lipid-polymer hybrid nanoparticles having organic room-temperature phosphorescence. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113889.	5.3	8
58	High-frequency temperature monitoring for early detection of febrile adverse events in patients with cancer. <i>Cancer Cell</i> , 2021, 39, 1167-1168.	7.7	7
59	Surveillance and Monitoring Techniques for HPV-Related Head and Neck Squamous Cell Carcinoma: Circulating Tumor DNA. <i>Current Treatment Options in Oncology</i> , 2021, 22, 21.	1.3	6
60	Risk Factors for COVID-19 in College Students Identified by Physical, Mental, and Social Health Reported During the Fall 2020 Semester: Observational Study Using the Roadmap App and Fitbit Wearable Sensors. <i>JMIR Mental Health</i> , 2022, 9, e34645.	1.7	6
61	High-frequency temperature monitoring at home using a wearable device: A case series of early fever detection and antibiotic administration for febrile neutropenia with bacteremia. <i>Pediatric Blood and Cancer</i> , 2022, 69, .	0.8	6
62	Computational analysis of continuous body temperature provides early discrimination of graft-versus-host disease in mice. <i>Blood Advances</i> , 2019, 3, 3977-3981.	2.5	5
63	Evaluating Serum Markers for Hormone Receptor-Negative Breast Cancer. <i>PLoS ONE</i> , 2015, 10, e0142911.	1.1	4
64	Attomolar Sensitivity in Single Biomarker Counting upon Aqueous Two-Phase Surface Enrichment. <i>ACS Sensors</i> , 2022, , .	4.0	4
65	Discovery of Circulating, Cell-Free MicroRNAs: Fundamental Science Forges a New Path for Biomarker Discovery. <i>Clinical Chemistry</i> , 2020, 66, 493-494.	1.5	1
66	One-Step Multiplexed Droplet Digital Polymerase Chain Reaction for Quantification of p190 BCR-ABL1 Fusion Transcript in B-Lymphoblastic Leukemia. <i>Archives of Pathology and Laboratory Medicine</i> , 2021, , .	1.2	1
67	Seeking Early Hints of Cancer in Blood: Combine to Conquer. <i>Gastroenterology</i> , 2018, 155, 928-930.	0.6	0
68	Phospho-RNAseq Profiling of Extracellular mRNAs and lncRNAs. <i>Methods in Molecular Biology</i> , 2021, 2348, 257-271.	0.4	0