

# Kennith W Witwer

## List of Publications by Year in descending order

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Version: 2024-02-01

126  
papers

21,695  
citations

36271

51  
h-index

16164

124  
g-index

145  
all docs

145  
docs citations

145  
times ranked

23900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies: from exosomes to microvesicles. <i>Cardiovascular Research</i> , 2023, 119, 45-63.	1.8	44
2	A bacterial extracellular vesicle-based intranasal vaccine against SARS-CoV-2 protects against disease and elicits neutralizing antibodies to wild-type and Delta variants. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12192.	5.5	60
3	L1CAM-associated extracellular vesicles: A systematic review of nomenclature, sources, separation, and characterization. , 2022, 1, .		39
4	Cigarette smoke-induced extracellular vesicles from dendritic cells alter T-cell activation and HIV replication. <i>Toxicology Letters</i> , 2022, 360, 33-43.	0.4	7
5	Reproducibility of extracellular vesicle research. <i>European Journal of Cell Biology</i> , 2022, 101, 151226.	1.6	26
6	Neutral sphingomyelinase 2 inhibition attenuates extracellular vesicle release and improves neurobehavioral deficits in murine HIV. <i>Neurobiology of Disease</i> , 2022, 169, 105734.	2.1	11
7	The evolving paradigm of extracellular vesicles in intercellular signaling and delivery of therapeutic RNAs. <i>Molecular Therapy</i> , 2022, 30, 2393-2394.	3.7	6
8	Exomeres and supermeres: Monolithic or diverse?. , 2022, 1, .		19
9	Non-invasive imaging of extracellular vesicles: Quo vaditis in vivo?. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	15
10	Release of extracellular vesicle miR-494-3p by ARPE-19 cells with impaired mitochondria. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129598.	1.1	22
11	Extracellular vesicles versus synthetic nanoparticles for drug delivery. <i>Nature Reviews Materials</i> , 2021, 6, 103-106.	23.3	175
12	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cell-derived extracellular vesicles following systemic delivery. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12054.	5.5	43
13	Unbiased proteomic profiling of host cell extracellular vesicle composition and dynamics upon HIV-1 infection. <i>EMBO Journal</i> , 2021, 40, e105492.	3.5	36
14	Characterization of extracellular vesicles and synthetic nanoparticles with four orthogonal single-particle analysis platforms. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12079.	5.5	97
15	Urinary extracellular vesicles: A position paper by the Urine Task Force of the International Society for Extracellular Vesicles. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12093.	5.5	182
16	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. <i>Cytotherapy</i> , 2021, 23, 373-380.	0.3	125
17	Extracellular vesicle interplay in cardiovascular pathophysiology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1749-H1761.	1.5	23
18	On your MARCKS, get set, deliver: Engineering extracellular vesicles. <i>Molecular Therapy</i> , 2021, 29, 1664-1665.	3.7	1

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19	Revisiting Extracellular RNA Release, Processing, and Function. <i>Trends in Biochemical Sciences</i> , 2021, 46, 438-445.	3.7	46
20	Nipping disease in the bud: nSMase2 inhibitors as therapeutics in extracellular vesicle-mediated diseases. <i>Drug Discovery Today</i> , 2021, 26, 1656-1668.	3.2	21
21	Isolation of HDL by sequential flotation ultracentrifugation followed by size exclusion chromatography reveals size-based enrichment of HDL-associated proteins. <i>Scientific Reports</i> , 2021, 11, 16086.	1.6	13
22	The power of imaging to understand extracellular vesicle biology in vivo. <i>Nature Methods</i> , 2021, 18, 1013-1026.	9.0	163
23	Developing Treatments for Alzheimer's™s and Related Disorders with Precision Medicine: A Vision. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1339, 395-402.	0.8	2
24	A brief history of nearly everything "The rise and rise of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12144.	5.5	150
25	Updating MISEV: Evolving the minimal requirements for studies of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12182.	5.5	147
26	Stable tRNA halves can be sorted into extracellular vesicles and delivered to recipient cells in a concentration-dependent manner. <i>RNA Biology</i> , 2020, 17, 1168-1182.	1.5	42
27	Towards defining reference materials for measuring extracellular vesicle refractive index, epitope abundance, size and concentration. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1816641.	5.5	70
28	How does an RNA selfie work? EV-associated RNA in innate immunity as self or danger. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1793515.	5.5	10
29	Influence of species and processing parameters on recovery and content of brain tissue-derived extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1785746.	5.5	72
30	Human perivascular stem cells prevent bone graft resorption in osteoporotic contexts by inhibiting osteoclast formation. <i>Stem Cells Translational Medicine</i> , 2020, 9, 1617-1630.	1.6	19
31	miRNA profiling of primate cervicovaginal lavage and extracellular vesicles reveals miR-186-5p as a potential antiretroviral factor in macrophages. <i>FEBS Open Bio</i> , 2020, 10, 2021-2039.	1.0	6
32	Methods for Separation and Characterization of Extracellular Vesicles: Results of a Worldwide Survey Performed by the ISEV Rigor and Standardization Subcommittee. <i>Cells</i> , 2020, 9, 1955.	1.8	205
33	Weiss Response to Sengupta et al. (DOI: 10.1089/scd.2020.0095). <i>Stem Cells and Development</i> , 2020, 29, 1533-1534.	1.1	3
34	Rigor and standardization of extracellular vesicle research: Paving the road towards robustness. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12037.	5.5	37
35	Announcing the ISEV2020 special achievement award recipients: Andrew Hill and Edit Buzás; and the recipient of the ISEV2020 special education award: Carolina Soekmadji. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12021.	5.5	0
36	Hitting the Bullseye: Are extracellular vesicles on target?. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12032.	5.5	11

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37	Functional assays to assess the therapeutic potential of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12033.	5.5	54
38	International Society for Extracellular Vesicles and International Society for Cell and Gene Therapy statement on extracellular vesicles from mesenchymal stromal cells and other cells: considerations for potential therapeutic agents to suppress coronavirus disease-19. <i>Cytotherapy</i> , 2020, 22, 482-485.	0.3	94
39	Re: "Exosomes Derived from Bone Marrow Mesenchymal Stem Cells as Treatment for Severe COVID-19" by Sengupta et al.. <i>Stem Cells and Development</i> , 2020, 29, 877-878.	1.1	24
40	Comprehensive evaluation of methods for small extracellular vesicles separation from human plasma, urine and cell culture medium. <i>Journal of Extracellular Vesicles</i> , 2020, 10, e12044.	5.5	97
41	Dietary RNA is ripe for investigation. <i>Nature</i> , 2020, 582, S9-S9.	13.7	3
42	Extracellular vesicles or exosomes? On primacy, precision, and popularity influencing a choice of nomenclature. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1648167.	5.5	377
43	Acetylcholinesterase is not a generic marker of extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1628592.	5.5	44
44	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1684862.	5.5	177
45	Circulating extracellular vesicle content reveals <i>de novo</i> DNA methyltransferase expression as a molecular method to predict septic shock. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1669881.	5.5	43
46	Considerations towards a roadmap for collection, handling and storage of blood extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1647027.	5.5	96
47	Announcing the ISEV2019 special achievement award recipients: Takahiro Ochiya and Marca Wauben. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1620080.	5.5	1
48	Defining mesenchymal stromal cell (MSC)-derived small extracellular vesicles for therapeutic applications. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1609206.	5.5	400
49	Highly Purified Human Extracellular Vesicles Produced by Stem Cells Alleviate Aging Cellular Phenotypes of Senescent Human Cells. <i>Stem Cells</i> , 2019, 37, 779-790.	1.4	111
50	Extracellular vesicles and chronic inflammation during HIV infection. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1687275.	5.5	44
51	Plant microRNAs in human sera are likely contaminants. <i>Journal of Nutritional Biochemistry</i> , 2019, 65, 139-140.	1.9	17
52	Swarming and Aggregation in the Parasitic Diplomonad Flagellate <i>Spironucleus vortens</i> . <i>Journal of Eukaryotic Microbiology</i> , 2019, 66, 545-552.	0.8	0
53	Senescence cell-associated extracellular vesicles serve as osteoarthritis disease and therapeutic markers. <i>JCI Insight</i> , 2019, 4, .	2.3	103
54	Human perivascular stem cell-derived extracellular vesicles mediate bone repair. <i>ELife</i> , 2019, 8, .	2.8	65

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55	Cytotoxicity of aqueous cigarette smoke extract is affected by properties of pipettes used to prepare the extract. <i>Matters</i> , 2019, 2019, .	1.0	1
56	TNF $\alpha$ and IL-1 $\beta$ modify the miRNA cargo of astrocyte shed extracellular vesicles to regulate neurotrophic signaling in neurons. <i>Cell Death and Disease</i> , 2018, 9, 363.	2.7	135
57	An SIV/macaque model targeted to study HIV-associated neurocognitive disorders. <i>Journal of NeuroVirology</i> , 2018, 24, 204-212.	1.0	38
58	Advances, challenges, and opportunities in extracellular RNA biology: insights from the NIH exRNA Strategic Workshop. <i>JCI Insight</i> , 2018, 3, .	2.3	41
59	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	5.5	6,961
60	Towards mechanisms and standardization in extracellular vesicle and extracellular RNA studies: results of a worldwide survey. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535745.	5.5	45
61	Induction of HIF-1 $\alpha$ by HIV-1 Infection in CD4 <sup>+</sup> T Cells Promotes Viral Replication and Drives Extracellular Vesicle-Mediated Inflammation. <i>MBio</i> , 2018, 9, .	1.8	68
62	Human and Cow Have Identical miR-21-5p and miR-30a-5p Sequences, Which Are Likely Unsuitable to Study Dietary Uptake from Cow Milk. <i>Journal of Nutrition</i> , 2018, 148, 1506-1507.	1.3	26
63	Summary of the ISEV workshop on extracellular vesicles as disease biomarkers, held in Birmingham, UK, during December 2017. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1473707.	5.5	60
64	Therapeutic effects of adipose-tissue-derived mesenchymal stromal cells and their extracellular vesicles in experimental silicosis. <i>Respiratory Research</i> , 2018, 19, 104.	1.4	44
65	miRNAs in platelet-poor blood plasma and purified RNA are highly stable: a confirmatory study. <i>BMC Research Notes</i> , 2018, 11, 273.	0.6	22
66	Alternative miRNAs? Human sequences misidentified as plant miRNAs in plant studies and in human plasma. <i>F1000Research</i> , 2018, 7, 244.	0.8	31
67	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA – an ISEV position paper. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1286095.	5.5	561
68	EV-TRACK: transparent reporting and centralizing knowledge in extracellular vesicle research. <i>Nature Methods</i> , 2017, 14, 228-232.	9.0	886
69	Age-Related Changes in Plasma Extracellular Vesicle Characteristics and Internalization by Leukocytes. <i>Scientific Reports</i> , 2017, 7, 1342.	1.6	193
70	Modeling brain lentiviral infections during antiretroviral therapy in AIDS. <i>Journal of NeuroVirology</i> , 2017, 23, 577-586.	1.0	7
71	Astrocyte-shed extracellular vesicles regulate the peripheral leukocyte response to inflammatory brain lesions. <i>Science Signaling</i> , 2017, 10, .	1.6	199
72	Ribonucleic artefacts: are some extracellular RNA discoveries driven by cell culture medium components?. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1272832.	5.5	63

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73	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. <i>Stem Cells Translational Medicine</i> , 2017, 6, 1730-1739.	1.6	247
74	Serum extracellular vesicle depletion processes affect release and infectivity of HIV-1 in culture. <i>Scientific Reports</i> , 2017, 7, 2558.	1.6	40
75	Updating the MISEV minimal requirements for extracellular vesicle studies: building bridges to reproducibility. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1396823.	5.5	185
76	Opposing impacts on healthspan and longevity by limiting dietary selenium in telomere dysfunctional mice. <i>Aging Cell</i> , 2017, 16, 125-135.	3.0	30
77	Diet-derived microRNAs: unicorn or silver bullet?. <i>Genes and Nutrition</i> , 2017, 12, 15.	1.2	47
78	Highlights of the São Paulo ISEV workshop on extracellular vesicles in cross-kingdom communication. <i>Journal of Extracellular Vesicles</i> , 2017, 6, 1407213.	5.5	38
79	Isolation and Characterization of Extracellular Vesicles in Stem Cell-Related Studies. <i>Neuromethods</i> , 2017, , 205-223.	0.2	1
80	Mutant Cas9-transcriptional activator activates HIV-1 in U1 cells in&nbsp;the presence and absence of LTR-specific guide RNAs. <i>Matters</i> , 2017, 2017, .	1.0	10
81	Techniques used for the isolation and characterization of extracellular vesicles: results of a worldwide survey. <i>Journal of Extracellular Vesicles</i> , 2016, 5, 32945.	5.5	703
82	Extracellular Vesicles Exploit Viral Entry Routes for Cargo Delivery. <i>Microbiology and Molecular Biology Reviews</i> , 2016, 80, 369-386.	2.9	207
83	Hypothetical Plant-Mammal Small RNA CommunicationCommunication : Packaging and Stoichiometry. , 2016, , 161-176.		3
84	Toward the promise of microRNAs “ Enhancing reproducibility and rigor in microRNA research. <i>RNA Biology</i> , 2016, 13, 1103-1116.	1.5	128
85	Extracellular vesicle-associated A $\beta$ mediates trans-neuronal bioenergetic and Ca <sup>2+</sup> -handling deficits in Alzheimer’s disease models. <i>Npj Aging and Mechanisms of Disease</i> , 2016, 2, .	4.5	102
86	SAMHD1 transcript upregulation during SIV infection of the central nervous system does not associate with reduced viral load. <i>Scientific Reports</i> , 2016, 6, 22629.	1.6	7
87	A benchmark for microRNA quantification algorithms using the OpenArray platform. <i>BMC Bioinformatics</i> , 2016, 17, 138.	1.2	6
88	Association of <i>BRAF</i> <sup>V600E</sup> Mutation and MicroRNA Expression with Central Lymph Node Metastases in Papillary Thyroid Cancer: A Prospective Study from Four Endocrine Surgery Centers. <i>Thyroid</i> , 2016, 26, 532-542.	2.4	50
89	Uptake of dietary milk miRNAs by adult humans: a validation study. <i>Food Research</i> , 2016, 5, 721.	0.8	71
90	Validated MicroRNA Target Databases: An Evaluation. <i>Drug Development Research</i> , 2015, 76, 389-396.	1.4	50

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91	miRNAs and SAMHD1 regulation in vitro and in a model of HIV CNS disease. <i>Journal of Neuroinflammation</i> , 2015, 12, 159.	3.1	2
92	Extracellular vesicle-depleted fetal bovine and human sera have reduced capacity to support cell growth. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 26373.	5.5	117
93	Assessment of small RNA sorting into different extracellular fractions revealed by high-throughput sequencing of breast cell lines. <i>Nucleic Acids Research</i> , 2015, 43, 5601-5616.	6.5	190
94	EVpedia: a community web portal for extracellular vesicles research. <i>Bioinformatics</i> , 2015, 31, 933-939.	1.8	317
95	Quinolinic acid/tryptophan ratios predict neurological disease in SIV-infected macaques and remain elevated in the brain under cART. <i>Journal of NeuroVirology</i> , 2015, 21, 449-463.	1.0	25
96	Paving the path to HIV neurotherapy: Predicting SIV CNS disease. <i>European Journal of Pharmacology</i> , 2015, 759, 303-312.	1.7	25
97	Contamination or artifacts may explain reports of plant miRNAs in humans. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1685.	1.9	30
98	Potential role of cervicovaginal extracellular particles in diagnosis of endometriosis. <i>BMC Veterinary Research</i> , 2015, 11, 187.	0.7	10
99	MicroRNA Expression and Association with Clinicopathologic Features in Papillary Thyroid Cancer: A Systematic Review. <i>Thyroid</i> , 2015, 25, 1322-1329.	2.4	71
100	Acute Hepatitis C Virus Infection Induces Consistent Changes in Circulating MicroRNAs That Are Associated with Nonlytic Hepatocyte Release. <i>Journal of Virology</i> , 2015, 89, 9454-9464.	1.5	19
101	Circulating MicroRNA Biomarker Studies: Pitfalls and Potential Solutions. <i>Clinical Chemistry</i> , 2015, 61, 56-63.	1.5	407
102	SAMHD1 expression in blood cells of HIV-1 elite suppressors and viraemic progressors. <i>Journal of Antimicrobial Chemotherapy</i> , 2015, 70, 954-956.	1.3	9
103	Dietary flaxseed modulates the miRNA profile in irradiated and non-irradiated murine lungs. <i>Cancer Biology and Therapy</i> , 2014, 15, 930-937.	1.5	22
104	HIV-1 Tat- and Vpr-responsive MicroRNAs of Neuronal Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 3104.	1.6	1
105	Circulating Extracellular Micrnas In Hereditary Angioedema. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, AB32.	1.5	0
106	TRIM19-Positive and TRIM19-Negative Cells in and Around a Perivascular Cuff of CD68-Positive Macrophages. <i>AIDS Research and Human Retroviruses</i> , 2014, 30, 333-334.	0.5	0
107	Transfer and functional consequences of dietary microRNAs in vertebrates: Concepts in search of corroboration. <i>BioEssays</i> , 2014, 36, 394-406.	1.2	106
108	Diet-Responsive Mammalian miRNAs Are Likely Endogenous. <i>Journal of Nutrition</i> , 2014, 144, 1880-1881.	1.3	37

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109	Elevated Brain Monoamine Oxidase Activity in SIV- and HIV-associated Neurological Disease. <i>Journal of Infectious Diseases</i> , 2014, 210, 904-912.	1.9	31
110	OpenArray profiling reveals no differential modulation of miRNA by positive and negative CD4+ T cell immunoselection. <i>Experimental Hematology</i> , 2014, 42, 11-13.	0.2	4
111	Minimal experimental requirements for definition of extracellular vesicles and their functions: a position statement from the International Society for Extracellular Vesicles. <i>Journal of Extracellular Vesicles</i> , 2014, 3, 26913.	5.5	2,110
112	SIV replication is directly downregulated by four antiviral miRNAs. <i>Retrovirology</i> , 2013, 10, 95.	0.9	28
113	Tristetraprolin expression and microRNA-mediated regulation during simian immunodeficiency virus infection of the central nervous system. <i>Molecular Brain</i> , 2013, 6, 40.	1.3	14
114	Data Submission and Quality in Microarray-Based MicroRNA Profiling. <i>Clinical Chemistry</i> , 2013, 59, 392-400.	1.5	41
115	Real-time quantitative PCR and droplet digital PCR for plant miRNAs in mammalian blood provide little evidence for general uptake of dietary miRNAs. <i>RNA Biology</i> , 2013, 10, 1080-1086.	1.5	173
116	Comparison of Methods for miRNA Extraction from Plasma and Quantitative Recovery of RNA from Cerebrospinal Fluid. <i>Frontiers in Genetics</i> , 2013, 4, 83.	1.1	143
117	Standardization of sample collection, isolation and analysis methods in extracellular vesicle research. <i>Journal of Extracellular Vesicles</i> , 2013, 2, .	5.5	1,837
118	miRNA Profiles of Monocyte-Lineage Cells Are Consistent with Complicated Roles in HIV-1 Restriction. <i>Viruses</i> , 2012, 4, 1844-1864.	1.5	31
119	Do Platform-Specific Factors Explain MicroRNA Profiling Disparities?. <i>Clinical Chemistry</i> , 2012, 58, 472-474.	1.5	17
120	XenomiRs and miRNA homeostasis in health and disease. <i>RNA Biology</i> , 2012, 9, 1147-1154.	1.5	104
121	Relationships of PBMC microRNA expression, plasma viral load, and CD4+ T-cell count in HIV-1-infected elite suppressors and viremic patients. <i>Retrovirology</i> , 2012, 9, 5.	0.9	140
122	Evidence for miRNA expression differences of HIV-1 <sup>+</sup> positive, treatment-naïve patients and elite suppressors: a re-analysis. <i>Blood</i> , 2012, 119, 6395-6396.	0.6	14
123	A plasma microRNA signature of acute lentiviral infection. <i>Aids</i> , 2011, 25, 2057-2067.	1.0	62
124	Induction of Innate Immune Responses by SIV In Vivo and In Vitro: Differential Expression and Function of RIG-I and MDA5. <i>Journal of Infectious Diseases</i> , 2011, 204, 1104-1114.	1.9	18
125	MicroRNA Regulation of IFN- $\beta$ Protein Expression: Rapid and Sensitive Modulation of the Innate Immune Response. <i>Journal of Immunology</i> , 2010, 184, 2369-2376.	0.4	167
126	Coordinated Regulation of SIV Replication and Immune Responses in the CNS. <i>PLoS ONE</i> , 2009, 4, e8129.	1.1	88