Kennith W Witwer

List of Publications by Year in Descending Order

115 papers	13,337 citations	41 h-index	115 g-index
145 ext. papers	17,774 ext. citations	9.7 avg, IF	6.74 L-index

#	Paper	IF	Citations
115	A bacterial extracellular vesicle-based intranasal vaccine against SARS-CoV-2 protects against disease and elicits neutralizing antibodies to wild-type and Delta variants. **2022**,		4
114	A bacterial extracellular vesicle-based intranasal vaccine against SARS-CoV-2 protects against disease and elicits neutralizing antibodies to wild-type and Delta variants.. *Journal of Extracellular Vesicles*, **2022**, 11, e12192	16.4	7
113	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. *Cardiovascular Research*, **2022**,	9.9	4
112	Cigarette smoke-induced extracellular vesicles from dendritic cells alter T-cell activation and HIV replication.. *Toxicology Letters*, **2022**, 360, 33-43	4.4	1
111	Reproducibility of extracellular vesicle research.. *European Journal of Cell Biology*, **2022**, 101, 151226	6.1	2
110	Neutral sphingomyelinase 2 inhibition attenuates extracellular vesicle release and improves neurobehavioral deficits in murine HIV.. *Neurobiology of Disease*, **2022**, 105734	7.5	0
109	Exomeres and supermeres: Monolithic or diverse? **2022**, 1,		2
108	Developing Treatments for Alzheimer's and Related Disorders with Precision Medicine: A Vision.. *Advances in Experimental Medicine and Biology*, **2021**, 1339, 395-402	3.6	0
107	A brief history of nearly EV-erything - The rise and rise of extracellular vesicles.. *Journal of Extracellular Vesicles*, **2021**, 10, e12144	16.4	18
106	Unbiased proteomic profiling of host cell extracellular vesicle composition and dynamics upon HIV-1 infection. *EMBO Journal*, **2021**, 40, e105492	13	9
105	Characterization of extracellular vesicles and synthetic nanoparticles with four orthogonal single-particle analysis platforms. *Journal of Extracellular Vesicles*, **2021**, 10, e12079	16.4	29
104	Urinary extracellular vesicles: A position paper by the Urine Task Force of the International Society for Extracellular Vesicles. *Journal of Extracellular Vesicles*, **2021**, 10, e12093	16.4	38
103	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. *Cytotherapy*, **2021**, 23, 373-380	4.8	41
102	Extracellular vesicle interplay in cardiovascular pathophysiology. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 320, H1749-H1761	5.2	7
101	On your MARCKS, get set, deliver: Engineering extracellular vesicles. *Molecular Therapy*, **2021**, 29, 1664-1665	10.7	
100	Revisiting Extracellular RNA Release, Processing, and Function. *Trends in Biochemical Sciences*, **2021**, 46, 438-445	10.3	18
99	Release of extracellular vesicle miR-494-3p by ARPE-19 cells with impaired mitochondria. *Biochimica Et Biophysica Acta - General Subjects*, **2021**, 1865, 129598	4	9

98	Highly efficient magnetic labelling allows MRI tracking of the homing of stem cell-derived extracellular vesicles following systemic delivery. *Journal of Extracellular Vesicles*, **2021**, 10, e12054	16.4	15
97	Nipping disease in the bud: nSMase2 inhibitors as therapeutics in extracellular vesicle-mediated diseases. *Drug Discovery Today*, **2021**, 26, 1656-1668	8.8	5
96	Isolation of HDL by sequential flotation ultracentrifugation followed by size exclusion chromatography reveals size-based enrichment of HDL-associated proteins. *Scientific Reports*, **2021**, 11, 16086	4.9	1
95	The power of imaging to understand extracellular vesicle biology in vivo. *Nature Methods*, **2021**, 18, 1013-1026	21.6	38
94	Weiss Response to Sengupta et al. (DOI: 10.1089/scd.2020.0095). *Stem Cells and Development*, **2020**, 29, 1533-1534	4.4	1
93	Functional assays to assess the therapeutic potential of extracellular vesicles. *Journal of Extracellular Vesicles*, **2020**, 10, e12033	16.4	20
92	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. *Cytotherapy*, **2020**, 22, 482-485	4.8	59
91	Re: "Exosomes Derived from Bone Marrow Mesenchymal Stem Cells as Treatment for Severe COVID-19" by Sengupta et al. *Stem Cells and Development*, **2020**, 29, 877-878	4.4	16
90	Stable tRNA halves can be sorted into extracellular vesicles and delivered to recipient cells in a concentration-dependent manner. *RNA Biology*, **2020**, 17, 1168-1182	4.8	20
89	Towards defining reference materials for measuring extracellular vesicle refractive index, epitope abundance, size and concentration. *Journal of Extracellular Vesicles*, **2020**, 9, 1816641	16.4	31
88	How does an RNA selfie work? EV-associated RNA in innate immunity as self or danger. *Journal of Extracellular Vesicles*, **2020**, 9, 1793515	16.4	4
87	Influence of species and processing parameters on recovery and content of brain tissue-derived extracellular vesicles. *Journal of Extracellular Vesicles*, **2020**, 9, 1785746	16.4	32
86	Human perivascular stem cells prevent bone graft resorption in osteoporotic contexts by inhibiting osteoclast formation. *Stem Cells Translational Medicine*, **2020**, 9, 1617-1630	6.9	11
85	miRNA profiling of primate cervicovaginal lavage and extracellular vesicles reveals miR-186-5p as a potential antiretroviral factor in macrophages. *FEBS Open Bio*, **2020**, 10, 2021-2039	2.7	1
84	Methods for Separation and Characterization of Extracellular Vesicles: Results of a Worldwide Survey Performed by the ISEV Rigor and Standardization Subcommittee. *Cells*, **2020**, 9,	7.9	93
83	Comprehensive evaluation of methods for small extracellular vesicles separation from human plasma, urine and cell culture medium. *Journal of Extracellular Vesicles*, **2020**, 10, e12044	16.4	36
82	Considerations towards a roadmap for collection, handling and storage of blood extracellular vesicles. *Journal of Extracellular Vesicles*, **2019**, 8, 1647027	16.4	48
81	Defining mesenchymal stromal cell (MSC)-derived small extracellular vesicles for therapeutic applications. *Journal of Extracellular Vesicles*, **2019**, 8, 1609206	16.4	227

80	Acetylcholinesterase is not a generic marker of extracellular vesicles. *Journal of Extracellular Vesicles*, **2019**, 8, 1628592	16.4	21
79	Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. *Journal of Extracellular Vesicles*, **2019**, 8, 1684862	16.4	97
78	Circulating extracellular vesicle content reveals DNA methyltransferase expression as a molecular method to predict septic shock. *Journal of Extracellular Vesicles*, **2019**, 8, 1669881	16.4	17
77	Senescence cell-associated extracellular vesicles serve as osteoarthritis disease and therapeutic markers. *JCI Insight*, **2019**, 4,	9.9	53
76	Human perivascular stem cell-derived extracellular vesicles mediate bone repair. *ELife*, **2019**, 8,	8.9	37
75	Highly Purified Human Extracellular Vesicles Produced by Stem Cells Alleviate Aging Cellular Phenotypes of Senescent Human Cells. *Stem Cells*, **2019**, 37, 779-790	5.8	69
74	Extracellular vesicles and chronic inflammation during HIV infection. *Journal of Extracellular Vesicles*, **2019**, 8, 1687275	16.4	30
73	Plant microRNAs in human sera are likely contaminants. *Journal of Nutritional Biochemistry*, **2019**, 65, 139-140	6.3	12
72	Swarming and Aggregation in the Parasitic Diplomonad Flagellate Spironucleus vortens. *Journal of Eukaryotic Microbiology*, **2019**, 66, 545-552	3.6	
71	TNF□and IL-1□modify the miRNA cargo of astrocyte shed extracellular vesicles to regulate neurotrophic signaling in neurons. *Cell Death and Disease*, **2018**, 9, 363	9.8	78
70	An SIV/macaque model targeted to study HIV-associated neurocognitive disorders. *Journal of NeuroVirology*, **2018**, 24, 204-212	3.9	20
69	Therapeutic effects of adipose-tissue-derived mesenchymal stromal cells and their extracellular vesicles in experimental silicosis. *Respiratory Research*, **2018**, 19, 104	7.3	28
68	miRNAs in platelet-poor blood plasma and purified RNA are highly stable: a confirmatory study. *BMC Research Notes*, **2018**, 11, 273	2.3	15
67	Alternative miRNAs? Human sequences misidentified as plant miRNAs in plant studies and in human plasma. *F1000Research*, **2018**, 7, 244	3.6	24
66	Advances, challenges, and opportunities in extracellular RNA biology: insights from the NIH exRNA Strategic Workshop. *JCI Insight*, **2018**, 3,	9.9	31
65	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. *Journal of Extracellular Vesicles*, **2018**, 7, 1535750	16.4	3642
64	Towards mechanisms and standardization in extracellular vesicle and extracellular RNA studies: results of a worldwide survey. *Journal of Extracellular Vesicles*, **2018**, 7, 1535745	16.4	35
63	Induction of HIF-1□by HIV-1 Infection in CD4 T Cells Promotes Viral Replication and Drives Extracellular Vesicle-Mediated Inflammation. *MBio*, **2018**, 9,	7.8	39

62	Human and Cow Have Identical miR-21-5p and miR-30a-5p Sequences, Which Are Likely Unsuited to Study Dietary Uptake from Cow Milk. *Journal of Nutrition*, **2018**, 148, 1506-1507	4.1	19
61	Summary of the ISEV workshop on extracellular vesicles as disease biomarkers, held in Birmingham, UK, during December 2017. *Journal of Extracellular Vesicles*, **2018**, 7, 1473707	16.4	42
60	Obstacles and opportunities in the functional analysis of extracellular vesicle RNA - an ISEV position paper. *Journal of Extracellular Vesicles*, **2017**, 6, 1286095	16.4	410
59	EV-TRACK: transparent reporting and centralizing knowledge in extracellular vesicle research. *Nature Methods*, **2017**, 14, 228-232	21.6	560
58	Age-Related Changes in Plasma Extracellular Vesicle Characteristics and Internalization by Leukocytes. *Scientific Reports*, **2017**, 7, 1342	4.9	129
57	Modeling brain lentiviral infections during antiretroviral therapy in AIDS. *Journal of NeuroVirology*, **2017**, 23, 577-586	3.9	4
56	Astrocyte-shed extracellular vesicles regulate the peripheral leukocyte response to inflammatory brain lesions. *Science Signaling*, **2017**, 10,	8.8	130
55	Ribonucleic artefacts: are some extracellular RNA discoveries driven by cell culture medium components?. *Journal of Extracellular Vesicles*, **2017**, 6, 1272832	16.4	46
54	Diet-derived microRNAs: unicorn or silver bullet?. *Genes and Nutrition*, **2017**, 12, 15	4.3	35
53	Highlights of the São Paulo ISEV workshop on extracellular vesicles in cross-kingdom communication. *Journal of Extracellular Vesicles*, **2017**, 6, 1407213	16.4	24
52	Concise Review: Developing Best-Practice Models for the Therapeutic Use of Extracellular Vesicles. *Stem Cells Translational Medicine*, **2017**, 6, 1730-1739	6.9	177
51	Serum extracellular vesicle depletion processes affect release and infectivity of HIV-1 in culture. *Scientific Reports*, **2017**, 7, 2558	4.9	26
50	Opposing impacts on healthspan and longevity by limiting dietary selenium in telomere dysfunctional mice. *Aging Cell*, **2017**, 16, 125-135	9.9	22
49	Mutant Cas9-transcriptional activator activates HIV-1 in U1 cells in the presence and absence of LTR-specific guide RNAs. *Matters*, **2017**, 2017,	0	9
48	Isolation and Characterization of Extracellular Vesicles in Stem Cell-Related Studies. *Neuromethods*, **2017**, 205-223	0.4	1
47	Toward the promise of microRNAs - Enhancing reproducibility and rigor in microRNA research. *RNA Biology*, **2016**, 13, 1103-1116	4.8	95
46	Extracellular Vesicle-Associated Aβ Mediates Trans-Neuronal Bioenergetic and Ca-Handling Deficits in Alzheimer's Disease Models. *Npj Aging and Mechanisms of Disease*, **2016**, 2,	5.5	69
45	SAMHD1 transcript upregulation during SIV infection of the central nervous system does not associate with reduced viral load. *Scientific Reports*, **2016**, 6, 22629	4.9	7

44	A benchmark for microRNA quantification algorithms using the OpenArray platform. *BMC Bioinformatics*, **2016**, 17, 138	3.6	5
43	Association of BRAF V600E Mutation and MicroRNA Expression with Central Lymph Node Metastases in Papillary Thyroid Cancer: A Prospective Study from Four Endocrine Surgery Centers. *Thyroid*, **2016**, 26, 532-42	6.2	38
42	Uptake of dietary milk miRNAs by adult humans: a validation study. *F1000Research*, **2016**, 5, 721	3.6	55
41	Techniques used for the isolation and characterization of extracellular vesicles: results of a worldwide survey. *Journal of Extracellular Vesicles*, **2016**, 5, 32945	16.4	442
40	Extracellular Vesicles Exploit Viral Entry Routes for Cargo Delivery. *Microbiology and Molecular Biology Reviews*, **2016**, 80, 369-86	13.2	152
39	Hypothetical Plant-Mammal Small RNA Communication: Packaging and Stoichiometry **2016**, 161-176		3
38	Quinolinic acid/tryptophan ratios predict neurological disease in SIV-infected macaques and remain elevated in the brain under cART. *Journal of NeuroVirology*, **2015**, 21, 449-63	3.9	19
37	Paving the path to HIV neurotherapy: Predicting SIV CNS disease. *European Journal of Pharmacology*, **2015**, 759, 303-12	5.3	23
36	Contamination or artifacts may explain reports of plant miRNAs in humans. *Journal of Nutritional Biochemistry*, **2015**, 26, 1685	6.3	23
35	Potential role of cervicovaginal extracellular particles in diagnosis of endometriosis. *BMC Veterinary Research*, **2015**, 11, 187	2.7	6
34	MicroRNA Expression and Association with Clinicopathologic Features in Papillary Thyroid Cancer: A Systematic Review. *Thyroid*, **2015**, 25, 1322-9	6.2	61
33	Acute Hepatitis C Virus Infection Induces Consistent Changes in Circulating MicroRNAs That Are Associated with Nonlytic Hepatocyte Release. *Journal of Virology*, **2015**, 89, 9454-64	6.6	15
32	Circulating microRNA biomarker studies: pitfalls and potential solutions. *Clinical Chemistry*, **2015**, 61, 56-63	5.5	338
31	SAMHD1 expression in blood cells of HIV-1 elite suppressors and viraemic progressors. *Journal of Antimicrobial Chemotherapy*, **2015**, 70, 954-6	5.1	8
30	Validated MicroRNA Target Databases: An Evaluation. *Drug Development Research*, **2015**, 76, 389-96	5.1	40
29	miRNAs and SAMHD1 regulation in vitro and in a model of HIV CNS disease. *Journal of Neuroinflammation*, **2015**, 12, 159	10.1	2
28	Extracellular vesicle-depleted fetal bovine and human sera have reduced capacity to support cell growth. *Journal of Extracellular Vesicles*, **2015**, 4, 26373	16.4	87
27	Assessment of small RNA sorting into different extracellular fractions revealed by high-throughput sequencing of breast cell lines. *Nucleic Acids Research*, **2015**, 43, 5601-16	20.1	132

26	EVpedia: a community web portal for extracellular vesicles research. *Bioinformatics*, **2015**, 31, 933-9	7.2	256
25	TRIM19-positive and TRIM19-negative cells in and around a perivascular cuff of CD68-positive macrophages. *AIDS Research and Human Retroviruses*, **2014**, 30, 333-4	1.6	
24	Transfer and functional consequences of dietary microRNAs in vertebrates: concepts in search of corroboration: negative results challenge the hypothesis that dietary xenomiRs cross the gut and regulate genes in ingesting vertebrates, but important questions persist. *BioEssays*, **2014**, 36, 394-406	4.1	90
23	Diet-responsive mammalian miRNAs are likely endogenous. *Journal of Nutrition*, **2014**, 144, 1880-1	4.1	33
22	Elevated brain monoamine oxidase activity in SIV- and HIV-associated neurological disease. *Journal of Infectious Diseases*, **2014**, 210, 904-12	7	24
21	OpenArray profiling reveals no differential modulation of miRNA by positive and negative CD4+ T cell immunoselection. *Experimental Hematology*, **2014**, 42, 11-3	3.1	4
20	Minimal experimental requirements for definition of extracellular vesicles and their functions: a position statement from the International Society for Extracellular Vesicles. *Journal of Extracellular Vesicles*, **2014**, 3, 26913	16.4	1589
19	Dietary flaxseed modulates the miRNA profile in irradiated and non-irradiated murine lungs: a novel mechanism of tissue radioprotection by flaxseed. *Cancer Biology and Therapy*, **2014**, 15, 930-7	4.6	16
18	HIV-1 Tat- and Vpr-responsive microRNAs of neuronal cells. *Journal of Biological Chemistry*, **2014**, 289, 3104	5.4	1
17	SIV replication is directly downregulated by four antiviral miRNAs. *Retrovirology*, **2013**, 10, 95	3.6	25
16	Tristetraprolin expression and microRNA-mediated regulation during simian immunodeficiency virus infection of the central nervous system. *Molecular Brain*, **2013**, 6, 40	4.5	11
15	Data submission and quality in microarray-based microRNA profiling. *Clinical Chemistry*, **2013**, 59, 392-400	5.5	30
14	Real-time quantitative PCR and droplet digital PCR for plant miRNAs in mammalian blood provide little evidence for general uptake of dietary miRNAs: limited evidence for general uptake of dietary plant xenomiRs. *RNA Biology*, **2013**, 10, 1080-6	4.8	144
13	Comparison of Methods for miRNA Extraction from Plasma and Quantitative Recovery of RNA from Cerebrospinal Fluid. *Frontiers in Genetics*, **2013**, 4, 83	4.5	116
12	Standardization of sample collection, isolation and analysis methods in extracellular vesicle research. *Journal of Extracellular Vesicles*, **2013**, 2,	16.4	1409
11	Relationships of PBMC microRNA expression, plasma viral load, and CD4+ T-cell count in HIV-1-infected elite suppressors and viremic patients. *Retrovirology*, **2012**, 9, 5	3.6	114
10	Evidence for miRNA expression differences of HIV-1-positive, treatment-naive patients and elite suppressors: a re-analysis. *Blood*, **2012**, 119, 6395-6	2.2	14
9	miRNA profiles of monocyte-lineage cells are consistent with complicated roles in HIV-1 restriction. *Viruses*, **2012**, 4, 1844-64	6.2	27

8	Do platform-specific factors explain microRNA profiling disparities?. *Clinical Chemistry*, **2012**, 58, 472-4; author reply 474-5	5.5	17
7	XenomiRs and miRNA homeostasis in health and disease: evidence that diet and dietary miRNAs directly and indirectly influence circulating miRNA profiles. *RNA Biology*, **2012**, 9, 1147-54	4.8	87
6	A plasma microRNA signature of acute lentiviral infection: biomarkers of central nervous system disease. *Aids*, **2011**, 25, 2057-67	3.5	53
5	Induction of innate immune responses by SIV in vivo and in vitro: differential expression and function of RIG-I and MDA5. *Journal of Infectious Diseases*, **2011**, 204, 1104-14	7	15
4	MicroRNA regulation of IFN-beta protein expression: rapid and sensitive modulation of the innate immune response. *Journal of Immunology*, **2010**, 184, 2369-76	5.3	148
3	Coordinated regulation of SIV replication and immune responses in the CNS. *PLoS ONE*, **2009**, 4, e8129	3.7	78
2	mir-21 is associated with inactive low molecular weight Argonaute complexes in thyroid cancer cell lines		1
1	Pharmacokinetics and biodistribution of extracellular vesicles administered intravenously and intranasally to Macaca nemestrina		2