Matthew H Wilson

List of Publications by Year
in descending order

45	2,962	257101 24	253896 43
papers	citations	h-index	g-index

47	47	47	3762
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temporal self-regulation of transposition through host-independent transposase rodlet formation. Nucleic Acids Research, 2017, 45, 353-366.	6.5	526
2	Cell-programmed nutrient partitioning in the tumour microenvironment. Nature, 2021, 593, 282-288.	13.7	491
3	PiggyBac Transposon-mediated Gene Transfer in Human Cells. Molecular Therapy, 2007, 15, 139-145.	3.7	425
4	piggyBac Transposon/Transposase System to Generate CD19-Specific T Cells for the Treatment of B-Lineage Malignancies. Human Gene Therapy, 2010, 21, 427-437.	1.4	124
5	Genome-wide Mapping of PiggyBac Transposon Integrations in Primary Human T Cells. Journal of Immunotherapy, 2009, 32, 837-844.	1.2	112
6	PiggyBac-mediated Cancer Immunotherapy Using EBV-specific Cytotoxic T-cells Expressing HER2-specific Chimeric Antigen Receptor. Molecular Therapy, 2011, 19, 2133-2143.	3.7	110
7	piggyBac-ing models and new therapeutic strategies. Trends in Biotechnology, 2015, 33, 525-533.	4.9	101
8	Optimization of the PiggyBac Transposon System for the Sustained Genetic Modification of Human T Lymphocytes. Journal of Immunotherapy, 2009, 32, 826-836.	1.2	97
9	Hyperactive piggyBac Gene Transfer in Human Cells and In Vivo. Human Gene Therapy, 2012, 23, 311-320.	1.4	94
10	Multiplexed transposon-mediated stable gene transfer in human cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1343-1348.	3.3	76
11	Manipulating piggyBac Transposon Chromosomal Integration Site Selection in Human Cells. Molecular Therapy, 2011, 19, 1636-1644.	3.7	66
12	PiggyBac Transposon-based Inducible Gene Expression In Vivo After Somatic Cell Gene Transfer. Molecular Therapy, 2009, 17, 2115-2120.	3.7	63
13	Structural basis of seamless excision and specific targeting by piggyBac transposase. Nature Communications, 2020, 11, 3446.	5.8	53
14	Functional zinc finger/sleeping beautytransposase chimeras exhibit attenuated overproduction inhibition. FEBS Letters, 2005, 579, 6205-6209.	1.3	49
15	Evaluating the potential for undesired genomic effects of the piggyBac transposon system in human cells. Nucleic Acids Research, 2015, 43, 1770-1782.	6.5	44
16	Anti-leukemic potency of piggyBac-mediated CD19-specific T cells against refractory Philadelphia chromosomeâ€“positive acute lymphoblastic leukemia. Cytotherapy, 2014, 16, 1257-1269.	0.3	42
17	Anti-proliferative effects of T cells expressing a ligand-based chimeric antigen receptor against CD116 on CD34+ cells of juvenile myelomonocytic leukemia. Journal of Hematology and Oncology, 2016, 9, 27.	6.9	42
18	Combining mTor Inhibitors With Rapamycin-resistant T Cells: A Two-pronged Approach to Tumor Elimination. Molecular Therapy, 2011, 19, 2239-2248.	3.7	41

#	Article	IF	Citations
19	Protective Role of Insulin-Like Growth Factor-1 Receptor in Endothelial Cells against Unilateral Ureteral Obstructionâ€“Induced Renal Fibrosis. American Journal of Pathology, 2015, 185, 1234-1250.	1.9	39
20	Mechanisms Regulating the Cell Surface Residence Time of the Î±2A-Adrenergic Receptor. Biochemistry, 2000, 39, 693-700.	1.2	37
21	Comparative analysis of chimeric ZFP-, TALE- and Cas9-piggyBac transposases for integration into a single locus in human cells. Nucleic Acids Research, 2017, 45, 8411-8422.	6.5	37
22	Comparative Analysis of the Recently Discovered hAT Transposon TcBuster in Human Cells. PLoS ONE, 2012, 7, e42666.	1.1	37
23	Integration Mapping of piggyBac-Mediated CD19 Chimeric Antigen Receptor T Cells Analyzed by Novel Tagmentation-Assisted PCR. EBioMedicine, 2018, 34, 18-26.	2.7	30
24	Loss of glutathione Sâ€transferase A4 accelerates obstructionâ€induced tubule damage and renal fibrosis. Journal of Pathology, 2012, 228, 448-458.	2.1	28
25	Kidney-specific transposon-mediated gene transfer in vivo. Scientific Reports, 2017, 7, 44904.	1.6	23
26	Evaluation of Long-term Transgene Expression in piggyBac-Modified Human T Lymphocytes. Journal of Immunotherapy, 2013, 36, 3-10.	1.2	22
27	Direct reprogramming to human nephron progenitor-like cells using inducible piggyBac transposon expression of SNAI2-EYA1-SIX1. Kidney International, 2019, 95, 1153-1166.	2.6	21
28	Transposon-modified antigen-specific T lymphocytes for sustained therapeutic protein delivery in vivo. Nature Communications, 2018, 9, 1325.	5.8	16
29	Metabolic consequences of cystinuria. BMC Nephrology, 2019, 20, 227.	0.8	16
30	Myeloid cyclooxygenase-2/prostaglandin E2/E-type prostanoid receptor 4 promotes transcription factor MafB-dependent inflammatory resolution in acute kidney injury. Kidney International, 2022, 101, 79-91.	2.6	15
31	EGF receptorâ€“mediated FUS phosphorylation promotes its nuclear translocation and fibrotic signaling. Journal of Cell Biology, 2020, 219, .	2.3	12
32	Anti-Tumor Effects after Adoptive Transfer of IL-12 Transposon-Modified Murine Splenocytes in the OT-I-Melanoma Mouse Model. PLoS ONE, 2015, 10, e0140744.	1.1	11
33	Designing and Testing Chimeric Zinc Finger Transposases. Methods in Molecular Biology, 2010, 649, 353-363.	0.4	11
34	An adaptable system for improving transposonâ€based gene expression in vivo via transient transgene repression. FASEB Journal, 2013, 27, 3753-3762.	0.2	8
35	Cognate restriction of transposition by piggyBac-like proteins. Nucleic Acids Research, 2021, 49, 8135-8144.	6.5	8
36	CRISPR/Cas9 engineering of a KIM-1 reporter human proximal tubule cell line. PLoS ONE, 2018, 13, e0204487.	1.1	7

#	Article	IF	Citations
37	Genome Engineering Renal Epithelial Cells for Enhanced Volume Transport Function. Cellular and Molecular Bioengineering, 2020, 13, 17-26.	1.0	7
38	Hydrodynamic Renal Pelvis Injection for Non-viral Expression of Proteins in the Kidney. Journal of Visualized Experiments, 2018, , .	0.2	4
39	Consider Changing the Horse for Your CAR-T?. Molecular Therapy, 2018, 26, 1873-1874.	3.7	4
40	Metformin and Inhibition of Transforming Growth Factor-Beta Stimulate In Vitro Transport in Primary Renal Tubule Cells. Tissue Engineering - Part A, 2020, 26, 1091-1098.	1.6	4
41	Expect the unexpected: piggyBac and lymphoma. Blood, 2021, 138, 1379-1380.	0.6	4
42	Gene therapy for kidney disease: targeting cystinuria. Current Opinion in Nephrology and Hypertension, 2022, 31, 175-179.	1.0	3
43	CRISPR/Cas9 engineering of albino cystinuria Type A mice. Genesis, 2020, 58, e23357.	0.8	2
44	Functional analysis of the catalytic triad of the hAT-family transposase TcBuster. Plasmid, 2021, 114, 102554.	0.4	0
45	Combining Mtor Inhibitors with Rapa-Resistant T Cells: a Two-Pronged Approach to Tumor Elimination. Blood, 2010, 116, 2853-2853.	0.6	0