

# Matthew H Wilson

## List of Publications by Year in descending order

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45  
papers

2,962  
citations

257450

24  
h-index

254184

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal self-regulation of transposition through host-independent transposase rodlet formation. <i>Nucleic Acids Research</i> , 2017, 45, 353-366.	14.5	526
2	Cell-programmed nutrient partitioning in the tumour microenvironment. <i>Nature</i> , 2021, 593, 282-288.	27.8	491
3	PiggyBac Transposon-mediated Gene Transfer in Human Cells. <i>Molecular Therapy</i> , 2007, 15, 139-145.	8.2	425
4	<i>piggyBac</i> Transposon/Transposase System to Generate CD19-Specific T Cells for the Treatment of B-Lineage Malignancies. <i>Human Gene Therapy</i> , 2010, 21, 427-437.	2.7	124
5	Genome-wide Mapping of PiggyBac Transposon Integrations in Primary Human T Cells. <i>Journal of Immunotherapy</i> , 2009, 32, 837-844.	2.4	112
6	PiggyBac-mediated Cancer Immunotherapy Using EBV-specific Cytotoxic T-cells Expressing HER2-specific Chimeric Antigen Receptor. <i>Molecular Therapy</i> , 2011, 19, 2133-2143.	8.2	110
7	piggyBac-ing models and new therapeutic strategies. <i>Trends in Biotechnology</i> , 2015, 33, 525-533.	9.3	101
8	Optimization of the PiggyBac Transposon System for the Sustained Genetic Modification of Human T Lymphocytes. <i>Journal of Immunotherapy</i> , 2009, 32, 826-836.	2.4	97
9	Hyperactive <i>piggyBac</i> Gene Transfer in Human Cells and <i>In Vivo</i>. <i>Human Gene Therapy</i> , 2012, 23, 311-320.	2.7	94
10	Multiplexed transposon-mediated stable gene transfer in human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1343-1348.	7.1	76
11	Manipulating piggyBac Transposon Chromosomal Integration Site Selection in Human Cells. <i>Molecular Therapy</i> , 2011, 19, 1636-1644.	8.2	66
12	PiggyBac Transposon-based Inducible Gene Expression In Vivo After Somatic Cell Gene Transfer. <i>Molecular Therapy</i> , 2009, 17, 2115-2120.	8.2	63
13	Structural basis of seamless excision and specific targeting by piggyBac transposase. <i>Nature Communications</i> , 2020, 11, 3446.	12.8	53
14	Functional zinc finger/sleeping beauty transposase chimeras exhibit attenuated overproduction inhibition. <i>FEBS Letters</i> , 2005, 579, 6205-6209.	2.8	49
15	Evaluating the potential for undesired genomic effects of the <i>piggyBac</i> transposon system in human cells. <i>Nucleic Acids Research</i> , 2015, 43, 1770-1782.	14.5	44
16	Anti-leukemic potency of piggyBac-mediated CD19-specific T cells against refractory Philadelphia chromosome-â€‘positive acute lymphoblastic leukemia. <i>Cytotherapy</i> , 2014, 16, 1257-1269.	0.7	42
17	Anti-proliferative effects of T cells expressing a ligand-based chimeric antigen receptor against CD116 on CD34+ cells of juvenile myelomonocytic leukemia. <i>Journal of Hematology and Oncology</i> , 2016, 9, 27.	17.0	42
18	Combining mTor Inhibitors With Rapamycin-resistant T Cells: A Two-pronged Approach to Tumor Elimination. <i>Molecular Therapy</i> , 2011, 19, 2239-2248.	8.2	41

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19	Protective Role of Insulin-Like Growth Factor-1 Receptor in Endothelial Cells against Unilateral Ureteral Obstruction-Induced Renal Fibrosis. <i>American Journal of Pathology</i> , 2015, 185, 1234-1250.	3.8	39
20	Mechanisms Regulating the Cell Surface Residence Time of the $\beta$ -2-Adrenergic Receptor. <i>Biochemistry</i> , 2000, 39, 693-700.	2.5	37
21	Comparative analysis of chimeric ZFP-, TALE- and Cas9-piggyBac transposases for integration into a single locus in human cells. <i>Nucleic Acids Research</i> , 2017, 45, 8411-8422.	14.5	37
22	Comparative Analysis of the Recently Discovered hAT Transposon TcBuster in Human Cells. <i>PLoS ONE</i> , 2012, 7, e42666.	2.5	37
23	Integration Mapping of piggyBac-Mediated CD19 Chimeric Antigen Receptor T Cells Analyzed by Novel Tagmentation-Assisted PCR. <i>EBioMedicine</i> , 2018, 34, 18-26.	6.1	30
24	Loss of glutathione S-transferase A4 accelerates obstruction-induced tubule damage and renal fibrosis. <i>Journal of Pathology</i> , 2012, 228, 448-458.	4.5	28
25	Kidney-specific transposon-mediated gene transfer in vivo. <i>Scientific Reports</i> , 2017, 7, 44904.	3.3	23
26	Evaluation of Long-term Transgene Expression in piggyBac-Modified Human T Lymphocytes. <i>Journal of Immunotherapy</i> , 2013, 36, 3-10.	2.4	22
27	Direct reprogramming to human nephron progenitor-like cells using inducible piggyBac transposon expression of SNAI2-EYA1-SIX1. <i>Kidney International</i> , 2019, 95, 1153-1166.	5.2	21
28	Transposon-modified antigen-specific T lymphocytes for sustained therapeutic protein delivery in vivo. <i>Nature Communications</i> , 2018, 9, 1325.	12.8	16
29	Metabolic consequences of cystinuria. <i>BMC Nephrology</i> , 2019, 20, 227.	1.8	16
30	Myeloid cyclooxygenase-2/prostaglandin E2/E-type prostanoid receptor 4 promotes transcription factor MafB-dependent inflammatory resolution in acute kidney injury. <i>Kidney International</i> , 2022, 101, 79-91.	5.2	15
31	EGF receptor-mediated FUS phosphorylation promotes its nuclear translocation and fibrotic signaling. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	12
32	Anti-Tumor Effects after Adoptive Transfer of IL-12 Transposon-Modified Murine Splenocytes in the OT-I-Melanoma Mouse Model. <i>PLoS ONE</i> , 2015, 10, e0140744.	2.5	11
33	Designing and Testing Chimeric Zinc Finger Transposases. <i>Methods in Molecular Biology</i> , 2010, 649, 353-363.	0.9	11
34	An adaptable system for improving transposon-based gene expression in vivo via transient transgene repression. <i>FASEB Journal</i> , 2013, 27, 3753-3762.	0.5	8
35	Cognate restriction of transposition by piggyBac-like proteins. <i>Nucleic Acids Research</i> , 2021, 49, 8135-8144.	14.5	8
36	CRISPR/Cas9 engineering of a KIM-1 reporter human proximal tubule cell line. <i>PLoS ONE</i> , 2018, 13, e0204487.	2.5	7

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37	Genome Engineering Renal Epithelial Cells for Enhanced Volume Transport Function. Cellular and Molecular Bioengineering, 2020, 13, 17-26.	2.1	7
38	Hydrodynamic Renal Pelvis Injection for Non-viral Expression of Proteins in the Kidney. Journal of Visualized Experiments, 2018, , .	0.3	4
39	Consider Changing the Horse for Your CAR-T?. Molecular Therapy, 2018, 26, 1873-1874.	8.2	4
40	Metformin and Inhibition of Transforming Growth Factor-Beta Stimulate <i>In Vitro</i> Transport in Primary Renal Tubule Cells. Tissue Engineering - Part A, 2020, 26, 1091-1098.	3.1	4
41	Expect the unexpected: <i>piggyBac</i> and lymphoma. Blood, 2021, 138, 1379-1380.	1.4	4
42	Gene therapy for kidney disease: targeting cystinuria. Current Opinion in Nephrology and Hypertension, 2022, 31, 175-179.	2.0	3
43	CRISPR/Cas9 engineering of albino cystinuria Type A mice. Genesis, 2020, 58, e23357.	1.6	2
44	Functional analysis of the catalytic triad of the hAT-family transposase TcBuster. Plasmid, 2021, 114, 102554.	1.4	0
45	Combining Mtor Inhibitors with Rapa-Resistant T Cells: a Two-Pronged Approach to Tumor Elimination. Blood, 2010, 116, 2853-2853.	1.4	0