

# Walter Nickel

## List of Publications by Year in descending order

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57  
papers

4,910  
citations

117453

34  
h-index

133063

59  
g-index

64  
all docs

64  
docs citations

64  
times ranked

5452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of regulated unconventional protein secretion. <i>Nature Reviews Molecular Cell Biology</i> , 2009, 10, 148-155.	16.1	591
2	The mystery of nonclassical protein secretion. <i>FEBS Journal</i> , 2003, 270, 2109-2119.	0.2	531
3	Unconventional Secretary Routes: Direct Protein Export Across the Plasma Membrane of Mammalian Cells. <i>Traffic</i> , 2005, 6, 607-614.	1.3	300
4	Diversity in unconventional protein secretion. <i>Journal of Cell Science</i> , 2012, 125, 5251-5255.	1.2	229
5	Unconventional Mechanisms of Protein Transport to the Cell Surface of Eukaryotic Cells. <i>Annual Review of Cell and Developmental Biology</i> , 2008, 24, 287-308.	4.0	227
6	Unconventional Secretion Mediates the Trans-cellular Spreading of Tau. <i>Cell Reports</i> , 2018, 23, 2039-2055.	2.9	194
7	Regulated secretion of macrophage migration inhibitory factor is mediated by a non-classical pathway involving an ABC transporter. <i>FEBS Letters</i> , 2003, 551, 78-86.	1.3	193
8	Pathways of unconventional protein secretion. <i>Current Opinion in Biotechnology</i> , 2010, 21, 621-626.	3.3	154
9	Unconventional Secretion of Fibroblast Growth Factor 2 Is Mediated by Direct Translocation across the Plasma Membrane of Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 6244-6251.	1.6	137
10	Cell-surface heparan sulfate proteoglycans are essential components of the unconventional export machinery of FGF-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15479-15484.	3.3	137
11	The cancer antigen CA125 represents a novel counter receptor for galectin-1. <i>Journal of Cell Science</i> , 2003, 116, 1305-1318.	1.2	133
12	A Conserved, Lipid-Mediated Sorting Mechanism of Yeast Ist2 and Mammalian STIM Proteins to the Peripheral ER. <i>Traffic</i> , 2009, 10, 1802-1818.	1.3	120
13	The Golgi-Associated Protein p115 Mediates the Secretion of Macrophage Migration Inhibitory Factor. <i>Journal of Immunology</i> , 2009, 182, 6896-6906.	0.4	106
14	A Direct Role for Phosphatidylinositol 4,5-Bisphosphate in Unconventional Secretion of Fibroblast Growth Factor 2. <i>Traffic</i> , 2008, 9, 1204-1217.	1.3	104
15	Cell surface counter receptors are essential components of the unconventional export machinery of galectin-1. <i>Journal of Cell Biology</i> , 2005, 171, 373-381.	2.3	99
16	Phosphatidylinositol 4,5-Bisphosphate (PI(4,5)P2)-dependent Oligomerization of Fibroblast Growth Factor 2 (FGF2) Triggers the Formation of a Lipidic Membrane Pore Implicated in Unconventional Secretion. <i>Journal of Biological Chemistry</i> , 2012, 287, 27659-27669.	1.6	96
17	Biosynthetic FGF-2 is targeted to non-lipid raft microdomains following translocation to the extracellular surface of CHO cells. <i>Journal of Cell Science</i> , 2002, 115, 3619-3631.	1.2	89
18	Unconventional mechanisms of eukaryotic protein secretion. <i>Current Biology</i> , 2018, 28, R406-R410.	1.8	85

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19	Unconventional protein secretion: membrane translocation of FGF-2 does not require protein unfolding. <i>Journal of Cell Science</i> , 2004, 117, 1727-1736.	1.2	83
20	A novel flow cytometric assay to quantify interactions between proteins and membrane lipids. <i>Journal of Lipid Research</i> , 2009, 50, 1245-1254.	2.0	74
21	Tec-Kinase-Mediated Phosphorylation of Fibroblast Growth Factor 2 is Essential for Unconventional Secretion. <i>Traffic</i> , 2010, 11, 813-826.	1.3	72
22	Unconventional secretion: an extracellular trap for export of fibroblast growth factor 2. <i>Journal of Cell Science</i> , 2007, 120, 2295-2299.	1.2	70
23	The Unconventional Secretory Machinery of Fibroblast Growth Factor 2. <i>Traffic</i> , 2011, 12, 799-805.	1.3	67
24	Key steps in unconventional secretion of fibroblast growth factor 2 reconstituted with purified components. <i>ELife</i> , 2017, 6, .	2.8	63
25	Unconventional Secretion of Fibroblast Growth Factor 2: A Novel Type of Protein Translocation across Membranes?. <i>Journal of Molecular Biology</i> , 2015, 427, 1202-1210.	2.0	56
26	Unconventional secretion of fibroblast growth factor 2 and galectin-1 does not require shedding of plasma membrane-derived vesicles. <i>FEBS Letters</i> , 2008, 582, 1362-1368.	1.3	55
27	SH4-domain-induced plasma membrane dynamization promotes bleb-associated cell motility. <i>Journal of Cell Science</i> , 2007, 120, 3820-3829.	1.2	51
28	A Direct Role for ATP1A1 in Unconventional Secretion of Fibroblast Growth Factor 2. <i>Journal of Biological Chemistry</i> , 2015, 290, 3654-3665.	1.6	51
29	Formation of Disulfide Bridges Drives Oligomerization, Membrane Pore Formation, and Translocation of Fibroblast Growth Factor 2 to Cell Surfaces. <i>Journal of Biological Chemistry</i> , 2015, 290, 8925-8937.	1.6	51
30	Binding of Plasma Membrane Lipids Recruits the Yeast Integral Membrane Protein Ist2 to the Cortical ER. <i>Traffic</i> , 2009, 10, 1084-1097.	1.3	50
31	The Startling Properties of Fibroblast Growth Factor 2: How to Exit Mammalian Cells without a Signal Peptide at Hand. <i>Journal of Biological Chemistry</i> , 2015, 290, 27015-27020.	1.6	47
32	A direct gateway into the extracellular space: Unconventional secretion of FGF2 through self-sustained plasma membrane pores. <i>Seminars in Cell and Developmental Biology</i> , 2018, 83, 3-7.	2.3	47
33	Direct transport across the plasma membrane of mammalian cells of <i>Leishmania</i> HASPB as revealed by a CHO export mutant. <i>Journal of Cell Science</i> , 2005, 118, 517-527.	1.2	46
34	HIV-Tat Protein Forms Phosphoinositide-dependent Membrane Pores Implicated in Unconventional Protein Secretion. <i>Journal of Biological Chemistry</i> , 2015, 290, 21976-21984.	1.6	46
35	An emerging case for membrane pore formation as a common mechanism for the unconventional secretion of FGF2 and IL-1 $\beta$ . <i>Journal of Cell Science</i> , 2017, 130, 3197-3202.	1.2	39
36	Single event visualization of unconventional secretion of FGF2. <i>Journal of Cell Biology</i> , 2019, 218, 683-699.	2.3	39

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37	An intrinsic quality-control mechanism ensures unconventional secretion of fibroblast growth factor 2 in a folded conformation. <i>Journal of Cell Science</i> , 2009, 122, 3322-3329.	1.2	38
38	Sphingosine-1-Phosphate Lyase Deficient Cells as a Tool to Study Protein Lipid Interactions. <i>PLoS ONE</i> , 2016, 11, e0153009.	1.1	38
39	Small Molecule Inhibitors Targeting Tec Kinase Block Unconventional Secretion of Fibroblast Growth Factor 2. <i>Journal of Biological Chemistry</i> , 2016, 291, 17787-17803.	1.6	32
40	Rerouting of fibroblast growth factor 2 to the classical secretory pathway results in post-translational modifications that block binding to heparan sulfate proteoglycans. <i>FEBS Letters</i> , 2008, 582, 2387-2392.	1.3	31
41	Trafficking and release of <i>Leishmania</i> metacyclic HASPB on macrophage invasion. <i>Cellular Microbiology</i> , 2012, 14, 740-761.	1.1	30
42	FGF2 and IL-1 $\beta$ explore unconventional secretory pathways at a glance. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	30
43	The Na,K-ATPase acts upstream of phosphoinositide PI(4,5)P2 facilitating unconventional secretion of Fibroblast Growth Factor 2. <i>Communications Biology</i> , 2020, 3, 141.	2.0	21
44	Unconventional protein secretion: Diversity and consensus. <i>Seminars in Cell and Developmental Biology</i> , 2018, 83, 1-2.	2.3	20
45	A Dual SILAC Proteomic Labeling Strategy for Quantifying Constitutive and Cell-Induced Protein Secretion. <i>Journal of Proteome Research</i> , 2015, 14, 3229-3238.	1.8	17
46	Glypican-1 drives unconventional secretion of fibroblast growth factor 2. <i>ELife</i> , 2022, 11, .	2.8	15
47	Unconventional secretion mediated by direct protein self-translocation across the plasma membranes of mammalian cells. <i>Trends in Biochemical Sciences</i> , 2022, 47, 699-709.	3.7	14
48	Identification of cis-acting determinants mediating the unconventional secretion of tau. <i>Scientific Reports</i> , 2021, 11, 12946.	1.6	13
49	HIV-1 Nef disrupts membrane-microdomain-associated anterograde transport for plasma membrane delivery of selected Src family kinases. <i>Cellular Microbiology</i> , 2013, 15, n/a-n/a.	1.1	10
50	Phenotypic profiling of the human genome reveals gene products involved in plasma membrane targeting of SRC kinases. <i>Genome Research</i> , 2011, 21, 1955-1968.	2.4	9
51	Heterologous Src Homology 4 Domains Support Membrane Anchoring and Biological Activity of HIV-1 Nef. <i>Journal of Biological Chemistry</i> , 2014, 289, 14030-14044.	1.6	9
52	The molecular mechanism underlying unconventional secretion of Fibroblast Growth Factor 2 from tumour cells. <i>Biology of the Cell</i> , 2017, 109, 375-380.	0.7	9
53	Reversible Phosphorylation as a Molecular Switch to Regulate Plasma Membrane Targeting of Acylated SH4 Domain Proteins. <i>Traffic</i> , 2009, 10, 1047-1060.	1.3	8
54	Functional Assay to Correlate Protein Oligomerization States with Membrane Pore Formation. <i>Analytical Chemistry</i> , 2020, 92, 14861-14866.	3.2	7

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55	Tyrosine Kinase Expressed in Hepatocellular Carcinoma, TEC, Controls Pluripotency and Early Cell Fate Decisions of Human Pluripotent Stem Cells via Regulation of Fibroblast Growth Factor-2 Secretion. <i>Stem Cells</i> , 2017, 35, 2050-2059.	1.4	5
56	A Role for Liquid-Ordered Plasma Membrane Nanodomains Coordinating the Unconventional Secretory Pathway of Fibroblast Growth Factor 2?. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 864257.	1.8	5
57	A time-resolved live cell imaging assay to identify small molecule inhibitors of FGF2 signaling. <i>FEBS Letters</i> , 2019, 593, 2162-2176.	1.3	1