Walter Nickel

List of Publications by Citations

58	4,043	34	63
papers	citations	h-index	g-index
64	4,534	6.7	5.93
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
58	Mechanisms of regulated unconventional protein secretion. *Nature Reviews Molecular Cell Biology*, **2009**, 10, 148-55	48.7	514
57	The mystery of nonclassical protein secretion. A current view on cargo proteins and potential export routes. *FEBS Journal*, **2003**, 270, 2109-19		460
56	Unconventional secretory routes: direct protein export across the plasma membrane of mammalian cells. *Traffic*, **2005**, 6, 607-14	5.7	276
55	Unconventional mechanisms of protein transport to the cell surface of eukaryotic cells. *Annual Review of Cell and Developmental Biology*, **2008**, 24, 287-308	12.6	202
54	Diversity in unconventional protein secretion. *Journal of Cell Science*, **2012**, 125, 5251-5	5.3	190
53	Regulated secretion of macrophage migration inhibitory factor is mediated by a non-classical pathway involving an ABC transporter. *FEBS Letters*, **2003**, 551, 78-86	3.8	163
52	Pathways of unconventional protein secretion. *Current Opinion in Biotechnology*, **2010**, 21, 621-6	11.4	134
51	The cancer antigen CA125 represents a novel counter receptor for galectin-1. *Journal of Cell Science*, **2003**, 116, 1305-18	5.3	123
50	Unconventional Secretion Mediates the Trans-cellular Spreading of Tau. *Cell Reports*, **2018**, 23, 2039-2055	10.6	120
49	Cell-surface heparan sulfate proteoglycans are essential components of the unconventional export machinery of FGF-2. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 15479-84	11.5	117
48	Unconventional secretion of fibroblast growth factor 2 is mediated by direct translocation across the plasma membrane of mammalian cells. *Journal of Biological Chemistry*, **2004**, 279, 6244-51	5.4	115
47	A conserved, lipid-mediated sorting mechanism of yeast Ist2 and mammalian STIM proteins to the peripheral ER. *Traffic*, **2009**, 10, 1802-18	5.7	101
46	The Golgi-associated protein p115 mediates the secretion of macrophage migration inhibitory factor. *Journal of Immunology*, **2009**, 182, 6896-906	5.3	93
45	A direct role for phosphatidylinositol-4,5-bisphosphate in unconventional secretion of fibroblast growth factor 2. *Traffic*, **2008**, 9, 1204-17	5.7	89
44	Cell surface counter receptors are essential components of the unconventional export machinery of galectin-1. *Journal of Cell Biology*, **2005**, 171, 373-81	7.3	87
43	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. *Journal of Biological Chemistry*, **2012**, 287, 27659-69	5.4	80
42	Biosynthetic FGF-2 is targeted to non-lipid raft microdomains following translocation to the extracellular surface of CHO cells. *Journal of Cell Science*, **2002**, 115, 3619-31	5.3	79

41	Unconventional protein secretion: membrane translocation of FGF-2 does not require protein unfolding. *Journal of Cell Science*, **2004**, 117, 1727-36	5.3	76
40	A novel flow cytometric assay to quantify interactions between proteins and membrane lipids. *Journal of Lipid Research*, **2009**, 50, 1245-54	6.3	65
39	Tec-kinase-mediated phosphorylation of fibroblast growth factor 2 is essential for unconventional secretion. *Traffic*, **2010**, 11, 813-26	5.7	63
38	Unconventional secretion: an extracellular trap for export of fibroblast growth factor 2. *Journal of Cell Science*, **2007**, 120, 2295-9	5.3	58
37	The unconventional secretory machinery of fibroblast growth factor 2. *Traffic*, **2011**, 12, 799-805	5.7	57
36	Unconventional mechanisms of eukaryotic protein secretion. *Current Biology*, **2018**, 28, R406-R410	6.3	49
35	Unconventional secretion of fibroblast growth factor 2--a novel type of protein translocation across membranes?. *Journal of Molecular Biology*, **2015**, 427, 1202-10	6.5	48
34	Unconventional secretion of fibroblast growth factor 2 and galectin-1 does not require shedding of plasma membrane-derived vesicles. *FEBS Letters*, **2008**, 582, 1362-8	3.8	46
33	SH4-domain-induced plasma membrane dynamization promotes bleb-associated cell motility. *Journal of Cell Science*, **2007**, 120, 3820-9	5.3	43
32	Formation of disulfide bridges drives oligomerization, membrane pore formation, and translocation of fibroblast growth factor 2 to cell surfaces. *Journal of Biological Chemistry*, **2015**, 290, 8925-37	5.4	40
31	A direct role for ATP1A1 in unconventional secretion of fibroblast growth factor 2. *Journal of Biological Chemistry*, **2015**, 290, 3654-65	5.4	40
30	Direct transport across the plasma membrane of mammalian cells of Leishmania HASPB as revealed by a CHO export mutant. *Journal of Cell Science*, **2005**, 118, 517-27	5.3	40
29	Key steps in unconventional secretion of fibroblast growth factor 2 reconstituted with purified components. *ELife*, **2017**, 6,	8.9	39
28	Binding of plasma membrane lipids recruits the yeast integral membrane protein Ist2 to the cortical ER. *Traffic*, **2009**, 10, 1084-97	5.7	38
27	HIV-Tat Protein Forms Phosphoinositide-dependent Membrane Pores Implicated in Unconventional Protein Secretion. *Journal of Biological Chemistry*, **2015**, 290, 21976-84	5.4	37
26	The Startling Properties of Fibroblast Growth Factor 2: How to Exit Mammalian Cells without a Signal Peptide at Hand. *Journal of Biological Chemistry*, **2015**, 290, 27015-27020	5.4	36
25	An intrinsic quality-control mechanism ensures unconventional secretion of fibroblast growth factor 2 in a folded conformation. *Journal of Cell Science*, **2009**, 122, 3322-9	5.3	34
24	An emerging case for membrane pore formation as a common mechanism for the unconventional secretion of FGF2 and IL-1 *Journal of Cell Science*, **2017**, 130, 3197-3202	5.3	31

23	A direct gateway into the extracellular space: Unconventional secretion of FGF2 through self-sustained plasma membrane pores. *Seminars in Cell and Developmental Biology*, **2018**, 83, 3-7	7.5	29
22	Rerouting of fibroblast growth factor 2 to the classical secretory pathway results in post-translational modifications that block binding to heparan sulfate proteoglycans. *FEBS Letters*, **2008**, 582, 2387-92	3.8	27
21	Small Molecule Inhibitors Targeting Tec Kinase Block Unconventional Secretion of Fibroblast Growth Factor 2. *Journal of Biological Chemistry*, **2016**, 291, 17787-803	5.4	25
20	Trafficking and release of Leishmania metacyclic HASPB on macrophage invasion. *Cellular Microbiology*, **2012**, 14, 740-61	3.9	25
19	Sphingosine-1-Phosphate Lyase Deficient Cells as a Tool to Study Protein Lipid Interactions. *PLoS ONE*, **2016**, 11, e0153009	3.7	25
18	Single event visualization of unconventional secretion of FGF2. *Journal of Cell Biology*, **2019**, 218, 683-699	7.3	20
17	FGF2 and IL-1β explorers of unconventional secretory pathways at a glance. *Journal of Cell Science* , **2020**, 133,	5.3	13
16	A Dual SILAC Proteomic Labeling Strategy for Quantifying Constitutive and Cell-Cell Induced Protein Secretion. *Journal of Proteome Research*, **2015**, 14, 3229-38	5.6	11
15	The Na,K-ATPase acts upstream of phosphoinositide PI(4,5)P facilitating unconventional secretion of Fibroblast Growth Factor 2. *Communications Biology*, **2020**, 3, 141	6.7	10
14	HIV-1 Nef disrupts membrane-microdomain-associated anterograde transport for plasma membrane delivery of selected Src family kinases. *Cellular Microbiology*, **2013**, 15, 1605-21	3.9	10
13	Heterologous Src homology 4 domains support membrane anchoring and biological activity of HIV-1 Nef. *Journal of Biological Chemistry*, **2014**, 289, 14030-44	5.4	9
12	Phenotypic profiling of the human genome reveals gene products involved in plasma membrane targeting of SRC kinases. *Genome Research*, **2011**, 21, 1955-68	9.7	9
11	The molecular mechanism underlying unconventional secretion of Fibroblast Growth Factor 2 from tumour cells. *Biology of the Cell*, **2017**, 109, 375-380	3.5	7
10	Reversible phosphorylation as a molecular switch to regulate plasma membrane targeting of acylated SH4 domain proteins. *Traffic*, **2009**, 10, 1047-60	5.7	7
9	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. *Stem Cells*, **2017**, 35, 2050-2059	5.8	4
8	Cholesterol promotes both head group visibility and clustering of PI(4,5)P2 driving unconventional secretion of Fibroblast Growth Factor 2		2
7	Identification of cis-acting determinants mediating the unconventional secretion of tau. *Scientific Reports*, **2021**, 11, 12946	4.9	2
6	Glypican-1 drives unconventional secretion of Fibroblast Growth Factor 2.. *ELife*, **2022**, 11,	8.9	2

List of Publications

5	A time-resolved live cell imaging assay to identify small molecule inhibitors of FGF2 signaling. *FEBS Letters*, **2019**, 593, 2162-2176	3.8	1
4	Die molekulare Entschlüsselung unkonventioneller Sekretionsmechanismen. *BioSpektrum*, **2014**, 20, 400-403	0.1	1
3	Glypican-1 drives unconventional secretion of Fibroblast Growth Factor 2		1
2	Functional Assay to Correlate Protein Oligomerization States with Membrane Pore Formation. *Analytical Chemistry*, **2020**, 92, 14861-14866	7.8	1
1	A Role for Liquid-Ordered Plasma Membrane Nanodomains Coordinating the Unconventional Secretory Pathway of Fibroblast Growth Factor 2?. *Frontiers in Cell and Developmental Biology*, **2022**, 10, 864257	5.7	0