

# Vivek Malhotra

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/573762/vivek-malhotra-publications-by-citations.pdf>  
**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119 papers	10,774 citations	59 h-index	103 g-index
145 ext. papers	11,813 ext. citations	17.4 avg, IF	6.21 L-index

#	Paper	IF	Citations
119	Involvement of GTP-binding "G" proteins in transport through the Golgi stack. <i>Cell</i> , <b>1987</b> , 51, 1053-62	56.2	488
118	Purification of a novel class of coated vesicles mediating biosynthetic protein transport through the Golgi stack. <i>Cell</i> , <b>1989</b> , 58, 329-36	56.2	386
117	Role of an N-ethylmaleimide-sensitive transport component in promoting fusion of transport vesicles with cisternae of the Golgi stack. <i>Cell</i> , <b>1988</b> , 54, 221-7	56.2	343
116	Role of diacylglycerol in PKD recruitment to the TGN and protein transport to the plasma membrane. <i>Science</i> , <b>2002</b> , 295, 325-8	33.3	338
115	Protein kinase D regulates the fission of cell surface destined transport carriers from the trans-Golgi network. <i>Cell</i> , <b>2001</b> , 104, 409-20	56.2	310
114	Unconventional secretion of Acb1 is mediated by autophagosomes. <i>Journal of Cell Biology</i> , <b>2010</b> , 188, 527-36	7.3	309
113	Functional genomics reveals genes involved in protein secretion and Golgi organization. <i>Nature</i> , <b>2006</b> , 439, 604-7	50.4	276
112	Dissection of a single round of vesicular transport: sequential intermediates for intercisternal movement in the Golgi stack. <i>Cell</i> , <b>1989</b> , 56, 357-68	56.2	259
111	TANGO1 facilitates cargo loading at endoplasmic reticulum exit sites. <i>Cell</i> , <b>2009</b> , 136, 891-902	56.2	254
110	Gbetagamma-mediated regulation of Golgi organization is through the direct activation of protein kinase D. <i>Cell</i> , <b>1999</b> , 98, 59-68	56.2	243
109	Non-autophagic roles of autophagy-related proteins. <i>EMBO Reports</i> , <b>2013</b> , 14, 143-51	6.5	215
108	Fragmentation and dispersal of the pericentriolar Golgi complex is required for entry into mitosis in mammalian cells. <i>Cell</i> , <b>2002</b> , 109, 359-69	56.2	211
107	Fatty acyl-coenzyme A is required for budding of transport vesicles from Golgi cisternae. <i>Cell</i> , <b>1989</b> , 59, 95-102	56.2	210
106	Protein kinase D regulates basolateral membrane protein exit from trans-Golgi network. <i>Nature Cell Biology</i> , <b>2004</b> , 6, 106-12	23.4	209
105	The curious status of the Golgi apparatus. <i>Cell</i> , <b>1998</b> , 95, 883-9	56.2	204
104	Complete vesiculation of Golgi membranes and inhibition of protein transport by a novel sea sponge metabolite, ilimaquinone. <i>Cell</i> , <b>1993</b> , 73, 1079-90	56.2	195
103	The formation of Golgi stacks from vesiculated Golgi membranes requires two distinct fusion events. <i>Cell</i> , <b>1995</b> , 82, 895-904	56.2	194

102	Diversity in unconventional protein secretion. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 5251-5	5.3	190
101	CP110 suppresses primary cilia formation through its interaction with CEP290, a protein deficient in human ciliary disease. <i>Developmental Cell</i> , <b>2008</b> , 15, 187-97	10.2	190
100	Protein kinase D: an intracellular traffic regulator on the move. <i>Trends in Cell Biology</i> , <b>2002</b> , 12, 193-200	18.3	189
99	The Golgi-associated protein GRASP is required for unconventional protein secretion during development. <i>Cell</i> , <b>2007</b> , 130, 524-34	56.2	186
98	Signaling via mitogen-activated protein kinase kinase (MEK1) is required for Golgi fragmentation during mitosis. <i>Cell</i> , <b>1998</b> , 92, 183-92	56.2	172
97	The Formation of TGN-to-plasma-membrane transport carriers. <i>Annual Review of Cell and Developmental Biology</i> , <b>2006</b> , 22, 439-55	12.6	169
96	ARF signaling: a potential role for phospholipase D in membrane traffic. <i>Cell</i> , <b>1993</b> , 75, 1045-8	56.2	166
95	Golgi spectrin: identification of an erythroid beta-spectrin homolog associated with the Golgi complex. <i>Journal of Cell Biology</i> , <b>1994</b> , 127, 707-23	7.3	165
94	Journeys through the Golgi--taking stock in a new era. <i>Journal of Cell Biology</i> , <b>2009</b> , 187, 449-53	7.3	139
93	Biogenesis of a novel compartment for autophagosome-mediated unconventional protein secretion. <i>Journal of Cell Biology</i> , <b>2011</b> , 195, 979-92	7.3	135
92	Recruitment of protein kinase D to the trans-Golgi network via the first cysteine-rich domain. <i>EMBO Journal</i> , <b>2001</b> , 20, 5982-90	13	132
91	Sedlin controls the ER export of procollagen by regulating the Sar1 cycle. <i>Science</i> , <b>2012</b> , 337, 1668-72	33.3	131
90	PKC $\epsilon$ is required for beta1gamma2/beta3gamma2- and PKD-mediated transport to the cell surface and the organization of the Golgi apparatus. <i>Journal of Cell Biology</i> , <b>2005</b> , 169, 83-91	7.3	121
89	cTAGE5 mediates collagen secretion through interaction with TANGO1 at endoplasmic reticulum exit sites. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 2301-8	3.5	120
88	The Golgi-associated protein GRASP65 regulates spindle dynamics and is essential for cell division. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 3211-22	3.5	116
87	The pathway of collagen secretion. <i>Annual Review of Cell and Developmental Biology</i> , <b>2015</b> , 31, 109-24	12.6	109
86	Unconventional protein secretion: an evolving mechanism. <i>EMBO Journal</i> , <b>2013</b> , 32, 1660-4	13	108
85	Dimeric PKD regulates membrane fission to form transport carriers at the TGN. <i>Journal of Cell Biology</i> , <b>2007</b> , 179, 1123-31	7.3	107

84	Regulation of Golgi structure through heterotrimeric G proteins. <i>Cell</i> , <b>1997</b> , 91, 617-26	56.2	106
83	Polo-like kinase is required for the fragmentation of pericentriolar Golgi stacks during mitosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 9128-32	11.5	104
82	Cell-cycle-specific Golgi fragmentation: how and why?. <i>Current Opinion in Cell Biology</i> , <b>2003</b> , 15, 462-7	9	102
81	A Golgi fragmentation pathway in neurodegeneration. <i>Neurobiology of Disease</i> , <b>2008</b> , 29, 221-31	7.5	96
80	The mechanism of Golgi segregation during mitosis is cell type-specific. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 14467-70	11.5	95
79	The organisation of the Golgi apparatus. <i>Current Opinion in Cell Biology</i> , <b>1998</b> , 10, 493-8	9	94
78	A specific activation of the mitogen-activated protein kinase kinase 1 (MEK1) is required for Golgi fragmentation during mitosis. <i>Journal of Cell Biology</i> , <b>2000</b> , 149, 331-9	7.3	94
77	Ligand binding by the p150,95 antigen of U937 monocytic cells: properties in common with complement receptor type 3 (CR3). <i>European Journal of Immunology</i> , <b>1986</b> , 16, 1117-23	6.1	89
76	Actin remodeling by ADF/cofilin is required for cargo sorting at the trans-Golgi network. <i>Journal of Cell Biology</i> , <b>2009</b> , 187, 1055-69	7.3	87
75	Membrane fission: the biogenesis of transport carriers. <i>Annual Review of Biochemistry</i> , <b>2012</b> , 81, 407-27	29.1	81
74	Src regulates Golgi structure and KDEL receptor-dependent retrograde transport to the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 46601-6	5.4	80
73	Myosin motors and not actin comets are mediators of the actin-based Golgi-to-endoplasmic reticulum protein transport. <i>Molecular Biology of the Cell</i> , <b>2003</b> , 14, 445-59	3.5	79
72	Prefission constriction of Golgi tubular carriers driven by local lipid metabolism: a theoretical model. <i>Biophysical Journal</i> , <b>2003</b> , 85, 3813-27	2.9	76
71	Golgi membranes remain segregated from the endoplasmic reticulum during mitosis in mammalian cells. <i>Cell</i> , <b>2004</b> , 116, 99-107	56.2	72
70	TANGO1 recruits ERGIC membranes to the endoplasmic reticulum for procollagen export. <i>ELife</i> , <b>2015</b> , 4,	8.9	70
69	ADF/cofilin regulates secretory cargo sorting at the TGN via the Ca <sup>2+</sup> ATPase SPCA1. <i>Developmental Cell</i> , <b>2011</b> , 20, 652-62	10.2	69
68	PKD regulates membrane fission to generate TGN to cell surface transport carriers. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2011</b> , 3,	10.2	69
67	A new class of carriers that transport selective cargo from the trans Golgi network to the cell surface. <i>EMBO Journal</i> , <b>2012</b> , 31, 3976-90	13	68

66	Protein export at the ER: loading big collagens into COPII carriers. <i>EMBO Journal</i> , <b>2011</b> , 30, 3475-80	13	67
65	TANGO1 builds a machine for collagen export by recruiting and spatially organizing COPII, tethers and membranes. <i>ELife</i> , <b>2018</b> , 7,	8.9	66
64	TANGO1 and Mia2/cTAGE5 (TALI) cooperate to export bulky pre-chylomicrons/VLDLs from the endoplasmic reticulum. <i>Journal of Cell Biology</i> , <b>2016</b> , 213, 343-54	7.3	65
63	The role of GRASP55 in Golgi fragmentation and entry of cells into mitosis. <i>Molecular Biology of the Cell</i> , <b>2008</b> , 19, 2579-87	3.5	64
62	Protein kinase d regulates trafficking of dendritic membrane proteins in developing neurons. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 9297-308	6.6	60
61	SLY1 and Syntaxin 18 specify a distinct pathway for procollagen VII export from the endoplasmic reticulum. <i>ELife</i> , <b>2014</b> , 3, e02784	8.9	59
60	Cab45 is required for Ca(2+)-dependent secretory cargo sorting at the trans-Golgi network. <i>Journal of Cell Biology</i> , <b>2012</b> , 199, 1057-66	7.3	58
59	RAF1-activated MEK1 is found on the Golgi apparatus in late prophase and is required for Golgi complex fragmentation in mitosis. <i>Journal of Cell Biology</i> , <b>2003</b> , 161, 27-32	7.3	57
58	Sphingomyelin organization is required for vesicle biogenesis at the Golgi complex. <i>EMBO Journal</i> , <b>2012</b> , 31, 4535-46	13	56
57	TANGO1 assembles into rings around COPII coats at ER exit sites. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 901-909	7.3	55
56	Location of Golgi membranes with reference to dividing nuclei in syncytial Drosophila embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1994</b> , 91, 1878-82	11.5	52
55	Recruitment of arfaptins to the trans-Golgi network by PI(4)P and their involvement in cargo export. <i>EMBO Journal</i> , <b>2013</b> , 32, 1717-29	13	49
54	Role of the second cysteine-rich domain and Pro275 in protein kinase D2 interaction with ADP-ribosylation factor 1, trans-Golgi network recruitment, and protein transport. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 1011-22	3.5	49
53	Unconventional secretion of AcbA in Dictyostelium discoideum through a vesicular intermediate. <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 1009-17		47
52	Sphingolipid metabolic flow controls phosphoinositide turnover at the -Golgi network. <i>EMBO Journal</i> , <b>2017</b> , 36, 1736-1754	13	45
51	Role of NAD <sup>+</sup> and ADP-ribosylation in the maintenance of the Golgi structure. <i>Journal of Cell Biology</i> , <b>1997</b> , 139, 1109-18	7.3	45
50	Expression of complement factor H on the cell surface of the human monocytic cell line U937. <i>European Journal of Immunology</i> , <b>1985</b> , 15, 935-41	6.1	45
49	Microtubule independent vesiculation of Golgi membranes and the reassembly of vesicles into Golgi stacks. <i>Journal of Cell Biology</i> , <b>1993</b> , 122, 1197-206	7.3	44

48	Reconstitution of vesiculated Golgi membranes into stacks of cisternae: requirement of NSF in stack formation. <i>Journal of Cell Biology</i> , <b>1995</b> , 129, 577-89	7.3	42
47	Unconventional secretion of FABP4 by endosomes and secretory lysosomes. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 649-665	7.3	41
46	Kinesin-5/Eg5 is important for transport of CARTS from the trans-Golgi network to the cell surface. <i>Journal of Cell Biology</i> , <b>2013</b> , 202, 241-50	7.3	39
45	Coatomers and SNAREs in promoting membrane traffic. <i>Cell</i> , <b>1993</b> , 75, 593-6	56.2	39
44	ESCRT-III drives the final stages of CUPS maturation for unconventional protein secretion. <i>ELife</i> , <b>2016</b> , 5,	8.9	39
43	Protein transport by vesicles and tunnels. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 737-739	7.3	38
42	Rothman and Schekman SNAREd by Lasker for trafficking. <i>Cell</i> , <b>2002</b> , 111, 1-3	56.2	37
41	Remodeling of secretory compartments creates CUPS during nutrient starvation. <i>Journal of Cell Biology</i> , <b>2014</b> , 207, 695-703	7.3	34
40	Sphingomyelin homeostasis is required to form functional enzymatic domains at the trans-Golgi network. <i>Journal of Cell Biology</i> , <b>2014</b> , 206, 609-18	7.3	32
39	Chemical analysis of norrisolide-induced Golgi vesiculation. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 4190-1	16.4	32
38	Procollagen export from the endoplasmic reticulum. <i>Biochemical Society Transactions</i> , <b>2015</b> , 43, 104-7	5.1	31
37	TRPM5-mediated calcium uptake regulates mucin secretion from human colon goblet cells. <i>ELife</i> , <b>2013</b> , 2, e00658	8.9	31
36	Cofilin-mediated sorting and export of specific cargo from the Golgi apparatus in yeast. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 2327-38	3.5	31
35	GRASP55 and UPR Control Interleukin-1 $\beta$ Aggregation and Secretion. <i>Developmental Cell</i> , <b>2019</b> , 49, 145-155.e4	15.4	28
34	A diacidic motif determines unconventional secretion of wild-type and ALS-linked mutant SOD1. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 2691-2700	7.3	27
33	Fragmentation of Golgi membranes by norrisolide and designed analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 5035-9	2.9	26
32	MEK1 inactivates Myt1 to regulate Golgi membrane fragmentation and mitotic entry in mammalian cells. <i>EMBO Journal</i> , <b>2013</b> , 32, 72-85	13	25
31	The Golgi apparatus maintains its organization independent of the endoplasmic reticulum. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 5372-80	3.5	24

30	Biallelic mutations cause a novel syndromal disease due to hampered cellular collagen secretion. <i>ELife</i> , <b>2020</b> , 9,	8.9	24
29	Investigation of the biological mode of action of clerocidin using whole cell assays. <i>Bioorganic and Medicinal Chemistry</i> , <b>2001</b> , 9, 1365-70	3.4	22
28	Membrane fusion in organelle biogenesis. <i>Current Opinion in Cell Biology</i> , <b>1996</b> , 8, 519-23	9	22
27	Structure and specificity of complement receptors. <i>Immunology Letters</i> , <b>1987</b> , 14, 183-90	4.1	22
26	Unconventional protein secretion triggered by nutrient starvation. <i>Seminars in Cell and Developmental Biology</i> , <b>2018</b> , 83, 22-28	7.5	20
25	Vesicle biogenesis: the coat connection. <i>Cell</i> , <b>1995</b> , 83, 667-9	56.2	20
24	Sphingomyelin metabolism controls the shape and function of the Golgi cisternae. <i>ELife</i> , <b>2017</b> , 6,	8.9	19
23	Chemical biology studies on norrisolide. <i>Bioorganic and Medicinal Chemistry</i> , <b>2010</b> , 18, 2115-2122	3.4	17
22	Role of complement receptor CR1 in the breakdown of soluble and zymosan-bound C3b. <i>Biochemical Society Transactions</i> , <b>1984</b> , 12, 781-782	5.1	17
21	Sodium channel TRPM4 and sodium/calcium exchangers (NCX) cooperate in the control of Ca-induced mucin secretion from goblet cells. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 816-826	5.4	17
20	TANGO1 membrane helices create a lipid diffusion barrier at curved membranes. <i>ELife</i> , <b>2020</b> , 9,	8.9	14
19	Trifunctional norrisolide probes for the study of Golgi vesiculation. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2007</b> , 17, 320-5	2.9	13
18	A Tendon Cell Specific RNAi Screen Reveals Novel Candidates Essential for Muscle Tendon Interaction. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140976	3.7	13
17	Reactive oxygen species triggers unconventional secretion of antioxidants and Acb1. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	13
16	Golgi enzymes do not cycle through the endoplasmic reticulum during protein secretion or mitosis. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 141-151	3.5	12
15	New factors for protein transport identified by a genome-wide CRISPRi screen in mammalian cells. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 3861-3879	7.3	12
14	A physical mechanism of TANGO1-mediated bulky cargo export. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
13	Membranes and sorting. <i>Current Opinion in Cell Biology</i> , <b>1997</b> , 9, 475-6	9	10

12	KCHIP3 coupled to Ca oscillations exerts a tonic brake on baseline mucin release in the colon. <i>ELife</i> , <b>2018</b> , 7,	8.9	8
11	Protein kinase D regulates metabolism and growth by controlling secretion of insulin like peptide. <i>Developmental Biology</i> , <b>2018</b> , 434, 175-185	3.1	5
10	COPII vesicles get supersized by ubiquitin. <i>Cell</i> , <b>2012</b> , 149, 20-1	56.2	5
9	The function of GORASPs in Golgi apparatus organization in vivo. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	5
8	TANGO1 marshals the early secretory pathway for cargo export. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2021</b> , 1863, 183700	3.8	5
7	The pleasure of publishing. <i>ELife</i> , <b>2015</b> , 4,	8.9	4
6	Membranes and organelles. <i>Current Opinion in Cell Biology</i> , <b>2005</b> , 17, 343-344	9	2
5	Reversing chemorefraction in colorectal cancer cells by controlling mucin secretion.. <i>ELife</i> , <b>2022</b> , 11,	8.9	2
4	Reconstitution of Golgi stacks from vesiculated Golgi membranes in permeabilized cells. <i>Seminars in Cell and Developmental Biology</i> , <b>1996</b> , 7, 511-516	7.5	1
3	A physical mechanism of TANGO1-mediated bulky cargo export		1
2	New factors for protein transport identified by a genome-wide CRISPRi screen in mammalian cells		1
1	Regulated assembly of proteins and lipids at the Golgi to generate membrane fission activity. <i>Chemistry and Physics of Lipids</i> , <b>2008</b> , 154, S3	3.7	