

Vivek Malhotra

List of Publications by Year in Descending Order

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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	Reversing chemorefraction in colorectal cancer cells by controlling mucin secretion.. <i>ELife</i> , 2022 , 11,	8.9	2
118	TANGO1 marshals the early secretory pathway for cargo export. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021 , 1863, 183700	3.8	5
117	Biallelic mutations cause a novel syndromal disease due to hampered cellular collagen secretion. <i>ELife</i> , 2020 , 9,	8.9	24
116	TANGO1 membrane helices create a lipid diffusion barrier at curved membranes. <i>ELife</i> , 2020 , 9,	8.9	14
115	A physical mechanism of TANGO1-mediated bulky cargo export. <i>ELife</i> , 2020 , 9,	8.9	11
114	Reactive oxygen species triggers unconventional secretion of antioxidants and Acb1. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	13
113	The function of GORASPs in Golgi apparatus organization in vivo. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	5
112	GRASP55 and UPR Control Interleukin-1 β Aggregation and Secretion. <i>Developmental Cell</i> , 2019 , 49, 145-155.e4	5.4	28
111	Protein transport by vesicles and tunnels. <i>Journal of Cell Biology</i> , 2019 , 218, 737-739	7.3	38
110	New factors for protein transport identified by a genome-wide CRISPRi screen in mammalian cells. <i>Journal of Cell Biology</i> , 2019 , 218, 3861-3879	7.3	12
109	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> , 2019 , 294, 816-826	5.4	17
108	Protein kinase D regulates metabolism and growth by controlling secretion of insulin like peptide. <i>Developmental Biology</i> , 2018 , 434, 175-185	3.1	5
107	Unconventional protein secretion triggered by nutrient starvation. <i>Seminars in Cell and Developmental Biology</i> , 2018 , 83, 22-28	7.5	20
106	TANGO1 builds a machine for collagen export by recruiting and spatially organizing COPII, tethers and membranes. <i>ELife</i> , 2018 , 7,	8.9	66
105	KCHIP3 coupled to Ca oscillations exerts a tonic brake on baseline mucin release in the colon. <i>ELife</i> , 2018 , 7,	8.9	8
104	Unconventional secretion of FABP4 by endosomes and secretory lysosomes. <i>Journal of Cell Biology</i> , 2018 , 217, 649-665	7.3	41
103	TANGO1 assembles into rings around COPII coats at ER exit sites. <i>Journal of Cell Biology</i> , 2017 , 216, 901-909	8.9	55

102	Sphingolipid metabolic flow controls phosphoinositide turnover at the -Golgi network. <i>EMBO Journal</i> , 2017 , 36, 1736-1754	13	45
101	A diacidic motif determines unconventional secretion of wild-type and ALS-linked mutant SOD1. <i>Journal of Cell Biology</i> , 2017 , 216, 2691-2700	7.3	27
100	Golgi enzymes do not cycle through the endoplasmic reticulum during protein secretion or mitosis. <i>Molecular Biology of the Cell</i> , 2017 , 28, 141-151	3.5	12
99	Sphingomyelin metabolism controls the shape and function of the Golgi cisternae. <i>ELife</i> , 2017 , 6,	8.9	19
98	ESCRT-III drives the final stages of CUPS maturation for unconventional protein secretion. <i>ELife</i> , 2016 , 5,	8.9	39
97	TANGO1 and Mia2/cTAGE5 (TALI) cooperate to export bulky pre-chylomicrons/VLDLs from the endoplasmic reticulum. <i>Journal of Cell Biology</i> , 2016 , 213, 343-54	7.3	65
96	The pathway of collagen secretion. <i>Annual Review of Cell and Developmental Biology</i> , 2015 , 31, 109-24	12.6	109
95	Procollagen export from the endoplasmic reticulum. <i>Biochemical Society Transactions</i> , 2015 , 43, 104-7	5.1	31
94	A Tendon Cell Specific RNAi Screen Reveals Novel Candidates Essential for Muscle Tendon Interaction. <i>PLoS ONE</i> , 2015 , 10, e0140976	3.7	13
93	The pleasure of publishing. <i>ELife</i> , 2015 , 4,	8.9	4
92	TANGO1 recruits ERGIC membranes to the endoplasmic reticulum for procollagen export. <i>ELife</i> , 2015 , 4,	8.9	70
91	Sphingomyelin homeostasis is required to form functional enzymatic domains at the trans-Golgi network. <i>Journal of Cell Biology</i> , 2014 , 206, 609-18	7.3	32
90	Remodeling of secretory compartments creates CUPS during nutrient starvation. <i>Journal of Cell Biology</i> , 2014 , 207, 695-703	7.3	34
89	SLY1 and Syntaxin 18 specify a distinct pathway for procollagen VII export from the endoplasmic reticulum. <i>ELife</i> , 2014 , 3, e02784	8.9	59
88	Kinesin-5/Eg5 is important for transport of CARTS from the trans-Golgi network to the cell surface. <i>Journal of Cell Biology</i> , 2013 , 202, 241-50	7.3	39
87	Non-autophagic roles of autophagy-related proteins. <i>EMBO Reports</i> , 2013 , 14, 143-51	6.5	215
86	TRPM5-mediated calcium uptake regulates mucin secretion from human colon goblet cells. <i>ELife</i> , 2013 , 2, e00658	8.9	31
85	Unconventional protein secretion: an evolving mechanism. <i>EMBO Journal</i> , 2013 , 32, 1660-4	13	108

84	Recruitment of arfaptins to the trans-Golgi network by PI(4)P and their involvement in cargo export. <i>EMBO Journal</i> , 2013 , 32, 1717-29	13	49
83	MEK1 inactivates Myt1 to regulate Golgi membrane fragmentation and mitotic entry in mammalian cells. <i>EMBO Journal</i> , 2013 , 32, 72-85	13	25
82	Sphingomyelin organization is required for vesicle biogenesis at the Golgi complex. <i>EMBO Journal</i> , 2012 , 31, 4535-46	13	56
81	Cab45 is required for Ca(2+)-dependent secretory cargo sorting at the trans-Golgi network. <i>Journal of Cell Biology</i> , 2012 , 199, 1057-66	7.3	58
80	A new class of carriers that transport selective cargo from the trans Golgi network to the cell surface. <i>EMBO Journal</i> , 2012 , 31, 3976-90	13	68
79	COPII vesicles get supersized by ubiquitin. <i>Cell</i> , 2012 , 149, 20-1	56.2	5
78	Sedlin controls the ER export of procollagen by regulating the Sar1 cycle. <i>Science</i> , 2012 , 337, 1668-72	33.3	131
77	Diversity in unconventional protein secretion. <i>Journal of Cell Science</i> , 2012 , 125, 5251-5	5.3	190
76	Cofilin-mediated sorting and export of specific cargo from the Golgi apparatus in yeast. <i>Molecular Biology of the Cell</i> , 2012 , 23, 2327-38	3.5	31
75	Membrane fission: the biogenesis of transport carriers. <i>Annual Review of Biochemistry</i> , 2012 , 81, 407-27	29.1	81
74	ADF/cofilin regulates secretory cargo sorting at the TGN via the Ca ²⁺ ATPase SPCA1. <i>Developmental Cell</i> , 2011 , 20, 652-62	10.2	69
73	Protein export at the ER: loading big collagens into COPII carriers. <i>EMBO Journal</i> , 2011 , 30, 3475-80	13	67
72	Biogenesis of a novel compartment for autophagosome-mediated unconventional protein secretion. <i>Journal of Cell Biology</i> , 2011 , 195, 979-92	7.3	135
71	PKD regulates membrane fission to generate TGN to cell surface transport carriers. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011 , 3,	10.2	69
70	cTAGE5 mediates collagen secretion through interaction with TANGO1 at endoplasmic reticulum exit sites. <i>Molecular Biology of the Cell</i> , 2011 , 22, 2301-8	3.5	120
69	Unconventional secretion of AcbA in Dictyostelium discoideum through a vesicular intermediate. <i>Eukaryotic Cell</i> , 2010 , 9, 1009-17		47
68	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> , 2010 , 21, 1011-22	3.5	49
67	Unconventional secretion of Acb1 is mediated by autophagosomes. <i>Journal of Cell Biology</i> , 2010 , 188, 527-36	7.3	309

66	Chemical biology studies on norrisolide. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 2115-2122	3.4	17
65	Actin remodeling by ADF/cofilin is required for cargo sorting at the trans-Golgi network. <i>Journal of Cell Biology</i> , 2009 , 187, 1055-69	7.3	87
64	Journeys through the Golgi--taking stock in a new era. <i>Journal of Cell Biology</i> , 2009 , 187, 449-53	7.3	139
63	TANGO1 facilitates cargo loading at endoplasmic reticulum exit sites. <i>Cell</i> , 2009 , 136, 891-902	56.2	254
62	A Golgi fragmentation pathway in neurodegeneration. <i>Neurobiology of Disease</i> , 2008 , 29, 221-31	7.5	96
61	CP110 suppresses primary cilia formation through its interaction with CEP290, a protein deficient in human ciliary disease. <i>Developmental Cell</i> , 2008 , 15, 187-97	10.2	190
60	The role of GRASP55 in Golgi fragmentation and entry of cells into mitosis. <i>Molecular Biology of the Cell</i> , 2008 , 19, 2579-87	3.5	64
59	Protein kinase d regulates trafficking of dendritic membrane proteins in developing neurons. <i>Journal of Neuroscience</i> , 2008 , 28, 9297-308	6.6	60
58	Regulated assembly of proteins and lipids at the Golgi to generate membrane fission activity. <i>Chemistry and Physics of Lipids</i> , 2008 , 154, S3	3.7	
57	Trifunctional norrisolide probes for the study of Golgi vesiculation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007 , 17, 320-5	2.9	13
56	Dimeric PKD regulates membrane fission to form transport carriers at the TGN. <i>Journal of Cell Biology</i> , 2007 , 179, 1123-31	7.3	107
55	The Golgi-associated protein GRASP is required for unconventional protein secretion during development. <i>Cell</i> , 2007 , 130, 524-34	56.2	186
54	The Golgi apparatus maintains its organization independent of the endoplasmic reticulum. <i>Molecular Biology of the Cell</i> , 2006 , 17, 5372-80	3.5	24
53	The formation of TGN-to-plasma-membrane transport carriers. <i>Annual Review of Cell and Developmental Biology</i> , 2006 , 22, 439-55	12.6	169
52	Chemical analysis of norrisolide-induced Golgi vesiculation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4190-1	16.4	32
51	Functional genomics reveals genes involved in protein secretion and Golgi organization. <i>Nature</i> , 2006 , 439, 604-7	50.4	276
50	Membranes and organelles. <i>Current Opinion in Cell Biology</i> , 2005 , 17, 343-344	9	2
49	The Golgi-associated protein GRASP65 regulates spindle dynamics and is essential for cell division. <i>Molecular Biology of the Cell</i> , 2005 , 16, 3211-22	3.5	116

48	PKCeta 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> , 2005 , 169, 83-91	7.3	121
47	Protein kinase D regulates basolateral membrane protein exit from trans-Golgi network. <i>Nature Cell Biology</i> , 2004 , 6, 106-12	23.4	209
46	Fragmentation of Golgi membranes by norrisolide and designed analogues. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5035-9	2.9	26
45	Golgi membranes remain segregated from the endoplasmic reticulum during mitosis in mammalian cells. <i>Cell</i> , 2004 , 116, 99-107	56.2	72
44	Src regulates Golgi structure and KDEL receptor-dependent retrograde transport to the endoplasmic reticulum. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46601-6	5.4	80
43	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> , 2003 , 161, 27-32	7.3	57
42	Cell-cycle-specific Golgi fragmentation: how and why?. <i>Current Opinion in Cell Biology</i> , 2003 , 15, 462-7	9	102
41	Prefission constriction of Golgi tubular carriers driven by local lipid metabolism: a theoretical model. <i>Biophysical Journal</i> , 2003 , 85, 3813-27	2.9	76
40	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> , 2003 , 14, 445-59	3.5	79
39	Protein kinase D: an intracellular traffic regulator on the move. <i>Trends in Cell Biology</i> , 2002 , 12, 193-200	18.3	189
38	Role of diacylglycerol in PKD recruitment to the TGN and protein transport to the plasma membrane. <i>Science</i> , 2002 , 295, 325-8	33.3	338
37	Fragmentation and dispersal of the pericentriolar Golgi complex is required for entry into mitosis in mammalian cells. <i>Cell</i> , 2002 , 109, 359-69	56.2	211
36	Rothman and Schekman SNAREd by Lasker for trafficking. <i>Cell</i> , 2002 , 111, 1-3	56.2	37
35	Investigation of the biological mode of action of clerocidin using whole cell assays. <i>Bioorganic and Medicinal Chemistry</i> , 2001 , 9, 1365-70	3.4	22
34	Recruitment of protein kinase D to the trans-Golgi network via the first cysteine-rich domain. <i>EMBO Journal</i> , 2001 , 20, 5982-90	13	132
33	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> , 2001 , 98, 9128-32	11.5	104
32	Protein kinase D regulates the fission of cell surface destined transport carriers from the trans-Golgi network. <i>Cell</i> , 2001 , 104, 409-20	56.2	310
31	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> , 2000 , 149, 331-9	7.3	94

30	Gbetagamma-mediated regulation of Golgi organization is through the direct activation of protein kinase D. <i>Cell</i> , 1999 , 98, 59-68	56.2	243
29	The organisation of the Golgi apparatus. <i>Current Opinion in Cell Biology</i> , 1998 , 10, 493-8	9	94
28	Signaling via mitogen-activated protein kinase kinase (MEK1) is required for Golgi fragmentation during mitosis. <i>Cell</i> , 1998 , 92, 183-92	56.2	172
27	The curious status of the Golgi apparatus. <i>Cell</i> , 1998 , 95, 883-9	56.2	204
26	Role of NAD ⁺ and ADP-ribosylation in the maintenance of the Golgi structure. <i>Journal of Cell Biology</i> , 1997 , 139, 1109-18	7.3	45
25	Membranes and sorting. <i>Current Opinion in Cell Biology</i> , 1997 , 9, 475-6	9	10
24	Regulation of Golgi structure through heterotrimeric G proteins. <i>Cell</i> , 1997 , 91, 617-26	56.2	106
23	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> , 1997 , 94, 14467-70	11.5	95
22	Reconstitution of Golgi stacks from vesiculated Golgi membranes in permeabilized cells. <i>Seminars in Cell and Developmental Biology</i> , 1996 , 7, 511-516	7.5	1
21	Membrane fusion in organelle biogenesis. <i>Current Opinion in Cell Biology</i> , 1996 , 8, 519-23	9	22
20	Reconstitution of vesiculated Golgi membranes into stacks of cisternae: requirement of NSF in stack formation. <i>Journal of Cell Biology</i> , 1995 , 129, 577-89	7.3	42
19	Vesicle biogenesis: the coat connection. <i>Cell</i> , 1995 , 83, 667-9	56.2	20
18	The formation of Golgi stacks from vesiculated Golgi membranes requires two distinct fusion events. <i>Cell</i> , 1995 , 82, 895-904	56.2	194
17	Golgi spectrin: identification of an erythroid beta-spectrin homolog associated with the Golgi complex. <i>Journal of Cell Biology</i> , 1994 , 127, 707-23	7.3	165
16	Location of Golgi membranes with reference to dividing nuclei in syncytial <i>Drosophila</i> embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 1878-82	11.5	52
15	ARF signaling: a potential role for phospholipase D in membrane traffic. <i>Cell</i> , 1993 , 75, 1045-8	56.2	166
14	Coatomers and SNAREs in promoting membrane traffic. <i>Cell</i> , 1993 , 75, 593-6	56.2	39
13	Complete vesiculation of Golgi membranes and inhibition of protein transport by a novel sea sponge metabolite, ilimaquinone. <i>Cell</i> , 1993 , 73, 1079-90	56.2	195

12	Microtubule independent vesiculation of Golgi membranes and the reassembly of vesicles into Golgi stacks. <i>Journal of Cell Biology</i> , 1993 , 122, 1197-206	7.3	44
11	Fatty acyl-coenzyme A is required for budding of transport vesicles from Golgi cisternae. <i>Cell</i> , 1989 , 59, 95-102	56.2	210
10	Purification of a novel class of coated vesicles mediating biosynthetic protein transport through the Golgi stack. <i>Cell</i> , 1989 , 58, 329-36	56.2	386
9	Dissection of a single round of vesicular transport: sequential intermediates for intercisternal movement in the Golgi stack. <i>Cell</i> , 1989 , 56, 357-68	56.2	259
8	Role of an N-ethylmaleimide-sensitive transport component in promoting fusion of transport vesicles with cisternae of the Golgi stack. <i>Cell</i> , 1988 , 54, 221-7	56.2	343
7	Involvement of GTP-binding "G" proteins in transport through the Golgi stack. <i>Cell</i> , 1987 , 51, 1053-62	56.2	488
6	Structure and specificity of complement receptors. <i>Immunology Letters</i> , 1987 , 14, 183-90	4.1	22
5	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> , 1986 , 16, 1117-23	6.1	89
4	Expression of complement factor H on the cell surface of the human monocytic cell line U937. <i>European Journal of Immunology</i> , 1985 , 15, 935-41	6.1	45
3	Role of complement receptor CR1 in the breakdown of soluble and zymosan-bound C3b. <i>Biochemical Society Transactions</i> , 1984 , 12, 781-782	5.1	17
2	A physical mechanism of TANGO1-mediated bulky cargo export		1
1	New factors for protein transport identified by a genome-wide CRISPRi screen in mammalian cells		1