Chiara Zurzolo

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.

115 papers	6,648 citations	44 h-index	79 g-index
121 ext. papers	7,587 ext. citations	7.4 avg, IF	6.16 L-index

#	Paper	IF	Citations
115	Seeing eye to eye: photoreceptors employ nanotube-like connections for material transfer. *EMBO Journal*, **2021**, 40, e109727	13	2
114	Peering into tunneling nanotubes-The path forward. *EMBO Journal*, **2021**, 40, e105789	13	15
113	�Synuclein fibrils subvert lysosome structure and function for the propagation of protein misfolding between cells through tunneling nanotubes. *PLoS Biology*, **2021**, 19, e3001287	9.7	11
112	The Ways of Actin: Why Tunneling Nanotubes Are Unique Cell Protrusions. *Trends in Cell Biology*, **2021**, 31, 130-142	18.3	25
111	Tunneling nanotubes: Reshaping connectivity. *Current Opinion in Cell Biology*, **2021**, 71, 139-147	9	15
110	Patient-derived glioblastoma stem cells transfer mitochondria through tunneling nanotubes in tumor organoids. *Biochemical Journal*, **2021**, 478, 21-39	3.8	20
109	Actin Assembly around the Shigella-Containing Vacuole Promotes Successful Infection. *Cell Reports* , **2020**, 31, 107638	10.6	14
108	Tunneling Nanotubes: The Fuel of Tumor Progression?. *Trends in Cancer*, **2020**, 6, 874-888	12.5	32
107	Fine intercellular connections in development: TNTs, cytonemes, or intercellular bridges?. *Cell Stress*, **2020**, 4, 30-43	5.5	24
106	Ischaemia impacts TNT-mediated communication between cardiac cells **2020**, 1, 100001		6
105	Fate and propagation of endogenously formed Tau aggregates in neuronal cells. *EMBO Molecular Medicine*, **2020**, 12, e12025	12	16
104	Rab35 and its effectors promote formation of tunneling nanotubes in neuronal cells. *Scientific Reports*, **2020**, 10, 16803	4.9	13
103	Correlative cryo-electron microscopy reveals the structure of TNTs in neuronal cells. *Nature Communications*, **2019**, 10, 342	17.4	93
102	The prion-like spreading of �synuclein: From in vitro to in vivo models of Parkinson�s disease. *Ageing Research Reviews*, **2019**, 50, 89-101	12	38
101	The best of both worlds-bringing together cell biology and infection at the Institut Pasteur. *Genes and Immunity*, **2019**, 20, 426-435	4.4	
100	Effect of tolytoxin on tunneling nanotube formation and function. *Scientific Reports*, **2019**, 9, 5741	4.9	19
99	Clustering in the Golgi apparatus governs sorting and function of GPI-APs in polarized epithelial cells. *FEBS Letters*, **2019**, 593, 2351-2365	3.8	9

98	The best of both worlds- bringing together cell biology and infection at the Institut Pasteur. *Microbes and Infection*, **2019**, 21, 254-262	9.3	
97	Human NPCs can degrade αsyn fibrils and transfer them preferentially in a cell contact-dependent manner possibly through TNT-like structures. *Neurobiology of Disease*, **2019**, 132, 104609	7.5	11
96	The Wnt/Ca pathway is involved in interneuronal communication mediated by tunneling nanotubes. *EMBO Journal*, **2019**, 38, e101230	13	27
95	Organization of GPI-anchored proteins at the cell surface and its physiopathological relevance. *Critical Reviews in Biochemistry and Molecular Biology*, **2018**, 53, 403-419	8.7	14
94	Rab11a-Rab8a cascade regulates the formation of tunneling nanotubes through vesicle recycling. *Journal of Cell Science*, **2018**, 131,	5.3	22
93	Transfer of disrupted-in-schizophrenia 1 aggregates between neuronal-like cells occurs in tunnelling nanotubes and is promoted by dopamine. *Open Biology*, **2017**, 7,	7	11
92	Regulation of sub-compartmental targeting and folding properties of the Prion-like protein Shadoo. *Scientific Reports*, **2017**, 7, 3731	4.9	11
91	Cell Biology of Prion Protein. *Progress in Molecular Biology and Translational Science*, **2017**, 150, 57-82	4	27
90	GPI-anchored proteins are confined in subdiffraction clusters at the apical surface of polarized epithelial cells. *Biochemical Journal*, **2017**, 474, 4075-4090	3.8	3
89	αSynuclein transfer between neurons and astrocytes indicates that astrocytes play a role in degradation rather than in spreading. *Acta Neuropathologica*, **2017**, 134, 789-808	14.3	117
88	The spread of prion-like proteins by lysosomes and tunneling nanotubes: Implications for neurodegenerative diseases. *Journal of Cell Biology*, **2017**, 216, 2633-2644	7.3	71
87	Tunneling Nanotubes and Gap Junctions-Their Role in Long-Range Intercellular Communication during Development, Health, and Disease Conditions. *Frontiers in Molecular Neuroscience*, **2017**, 10, 333	6.1	125
86	The 37/67 kDa laminin receptor (LR) inhibitor, NSC47924, affects 37/67 kDa LR cell surface localization and interaction with the cellular prion protein. *Scientific Reports*, **2016**, 6, 24457	4.9	13
85	Drosophila cells use nanotube-like structures to transfer dsRNA and RNAi machinery between cells. *Scientific Reports*, **2016**, 6, 27085	4.9	31
84	Glycosylphosphatidylinositol-anchored proteins: Membrane organization and transport. *Biochimica Et Biophysica Acta - Biomembranes*, **2016**, 1858, 632-9	3.8	76
83	PrPC Undergoes Basal to Apical Transcytosis in Polarized Epithelial MDCK Cells. *PLoS ONE*, **2016**, 11, e0157991	3.7	4
82	Differential identity of Filopodia and Tunneling Nanotubes revealed by the opposite functions of actin regulatory complexes. *Scientific Reports*, **2016**, 6, 39632	4.9	65
81	Astrocyte-to-neuron intercellular prion transfer is mediated by cell-cell contact. *Scientific Reports*, **2016**, 6, 20762	4.9	53

80	The Priority position paper: Protecting Europe's food chain from prions. *Prion*, **2016**, 10, 165-81	2.3	10
79	Tunneling nanotubes spread fibrillar α-synuclein by intercellular trafficking of lysosomes. *EMBO Journal*, **2016**, 35, 2120-2138	13	199
78	Tunneling nanotubes: A possible highway in the spreading of tau and other prion-like proteins in neurodegenerative diseases. *Prion*, **2016**, 10, 344-351	2.3	112
77	Trafficking and degradation pathways in pathogenic conversion of prions and prion-like proteins in neurodegenerative diseases. *Virus Research*, **2015**, 207, 146-54	6.4	13
76	Trafficking and Membrane Organization of GPI-Anchored Proteins in Health and Diseases. *Current Topics in Membranes*, **2015**, 75, 269-303	2.2	27
75	Identification and Characterization of Tunneling Nanotubes for Intercellular Trafficking. *Current Protocols in Cell Biology*, **2015**, 67, 12.10.1-12.10.21	2.3	47
74	Prion aggregates transfer through tunneling nanotubes in endocytic vesicles. *Prion*, **2015**, 9, 125-35	2.3	55
73	Cytosolically expressed PrP GPI-signal peptide interacts with mitochondria. *Communicative and Integrative Biology*, **2015**, 8, e1036206	1.7	2
72	Golgi sorting regulates organization and activity of GPI proteins at apical membranes. *Nature Chemical Biology*, **2014**, 10, 350-357	11.7	33
71	Defined α-synuclein prion-like molecular assemblies spreading in cell culture. *BMC Neuroscience*, **2014**, 15, 69	3.2	58
70	Sorting of GPI-anchored proteins from yeast to mammals--common pathways at different sites?. *Journal of Cell Science*, **2014**, 127, 2793-801	5.3	52
69	The fate of PrP GPI-anchor signal peptide is modulated by P238S pathogenic mutation. *Traffic*, **2014**, 15, 78-93	5.7	9
68	Transfer of polyglutamine aggregates in neuronal cells occurs in tunneling nanotubes. *Journal of Cell Science*, **2013**, 126, 3678-85	5.3	125
67	Myo10 is a key regulator of TNT formation in neuronal cells. *Journal of Cell Science*, **2013**, 126, 4424-35	5.3	102
66	The cell biology of prion-like spread of protein aggregates: mechanisms and implication in neurodegeneration. *Biochemical Journal*, **2013**, 452, 1-17	3.8	116
65	Small misfolded Tau species are internalized via bulk endocytosis and anterogradely and retrogradely transported in neurons. *Journal of Biological Chemistry*, **2013**, 288, 1856-70	5.4	333
64	Exploring the role of lipids in intercellular conduits: breakthroughs in the pipeline. *Frontiers in Plant Science*, **2013**, 4, 504	6.2	14
63	4-hydroxytamoxifen leads to PrPSc clearance by conveying both PrPC and PrPSc to lysosomes independently of autophagy. *Journal of Cell Science*, **2013**, 126, 1345-54	5.3	31

62	Not on the menu: autophagy-independent clearance of prions. *Prion*, **2013**, 7, 286-90	2.3	4
61	Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. *Journal of Clinical Investigation*, **2013**, 123, 1501-12	15.9	69
60	Cluvenone induces apoptosis via a direct target in mitochondria: a possible mechanism to circumvent chemo-resistance?. *Investigational New Drugs*, **2012**, 30, 1841-8	4.3	15
59	Wiring through tunneling nanotubes--from electrical signals to organelle transfer. *Journal of Cell Science*, **2012**, 125, 1089-98	5.3	219
58	Determining the role of mononuclear phagocytes in prion neuroinvasion from the skin. *Journal of Leukocyte Biology*, **2012**, 91, 817-28	6.5	12
57	Multifaceted roles of tunneling nanotubes in intercellular communication. *Frontiers in Physiology*, **2012**, 3, 72	4.6	113
56	N-Glycosylation instead of cholesterol mediates oligomerization and apical sorting of GPI-APs in FRT cells. *Molecular Biology of the Cell*, **2011**, 22, 4621-34	3.5	21
55	Characterization of the role of dendritic cells in prion transfer to primary neurons. *Biochemical Journal*, **2010**, 431, 189-98	3.8	37
54	Lipid rafts and clathrin cooperate in the internalization of PrP in epithelial FRT cells. *PLoS ONE*, **2009**, 4, e5829	3.7	42
53	Tunnelling nanotubes: a highway for prion spreading?. *Prion*, **2009**, 3, 94-8	2.3	68
52	Identification of an intracellular site of prion conversion. *PLoS Pathogens*, **2009**, 5, e1000426	7.6	130
51	Prions hijack tunnelling nanotubes for intercellular spread. *Nature Cell Biology*, **2009**, 11, 328-36	23.4	448
50	Chapter 14 Mechanisms of Polarized Sorting of GPI-anchored Proteins in Epithelial Cells. *The Enzymes*, **2009**, 289-319	2.3	1
49	Development of antibody fragments for immunotherapy of prion diseases. *Biochemical Journal*, **2009**, 418, 507-15	3.8	33
48	Doppel and PrPC co-immunoprecipitate in detergent-resistant membrane domains of epithelial FRT cells. *Biochemical Journal*, **2009**, 425, 341-51	3.8	15
47	Gene expression profile of quinacrine-cured prion-infected mouse neuronal cells. *Journal of Neurochemistry*, **2008**, 105, 239-50	6	12
46	Different GPI-attachment signals affect the oligomerisation of GPI-anchored proteins and their apical sorting. *Journal of Cell Science*, **2008**, 121, 4001-7	5.3	59
45	Selective roles for cholesterol and actin in compartmentalization of different proteins in the Golgi and plasma membrane of polarized cells. *Journal of Biological Chemistry*, **2008**, 283, 29545-53	5.4	31

44	alpha-Adducin mutations increase Na/K pump activity in renal cells by affecting constitutive endocytosis: implications for tubular Na reabsorption. *American Journal of Physiology - Renal Physiology*, **2008**, 295, F478-87	4.3	48
43	Coexpression of wild-type and mutant prion proteins alters their cellular localization and partitioning into detergent-resistant membranes. *Traffic*, **2008**, 9, 1101-15	5.7	12
42	N- and O-glycans are not directly involved in the oligomerization and apical sorting of GPI proteins. *Traffic*, **2008**, 9, 2141-50	5.7	21
41	Oligomerization is a specific requirement for apical sorting of glycosyl-phosphatidylinositol-anchored proteins but not for non-raft-associated apical proteins. *Traffic*, **2007**, 8, 251-8	5.7	51
40	Characterization of the properties and trafficking of an anchorless form of the prion protein. *Journal of Biological Chemistry*, **2007**, 282, 22747-56	5.4	30
39	Distinct v-SNAREs regulate direct and indirect apical delivery in polarized epithelial cells. *Journal of Cell Science*, **2007**, 120, 3309-20	5.3	57
38	Detergent-resistant membrane domains but not the proteasome are involved in the misfolding of a PrP mutant retained in the endoplasmic reticulum. *Journal of Cell Science*, **2006**, 119, 433-42	5.3	43
37	Cell Surface Biotinylation and Other Techniques for Determination of Surface Polarity of Epithelial Monolayers **2006**, 241-249		
36	GPI-anchored proteins are directly targeted to the apical surface in fully polarized MDCK cells. *Journal of Cell Biology*, **2006**, 172, 1023-34	7.3	91
35	Analysis of detergent-resistant membranes associated with apical and basolateral GPI-anchored proteins in polarized epithelial cells. *FEBS Letters*, **2006**, 580, 5705-12	3.8	17
34	Lipid Rafts in Trafficking and Processing of Prion Protein and Amyloid Precursor Protein **2006**, 205-231		
33	Prions: protein only or something more? Overview of potential prion cofactors. *Journal of Molecular Neuroscience*, **2006**, 29, 195-214	3.3	24
32	Plasma membrane and lysosomal localization of CB1 cannabinoid receptor are dependent on lipid rafts and regulated by anandamide in human breast cancer cells. *FEBS Letters*, **2005**, 579, 6343-9	3.8	64
31	Functional interaction between p75NTR and TrkA: the endocytic trafficking of p75NTR is driven by TrkA and regulates TrkA-mediated signalling. *Biochemical Journal*, **2005**, 385, 233-41	3.8	12
30	A y(+)LAT-1 mutant protein interferes with y(+)LAT-2 activity: implications for the molecular pathogenesis of lysinuric protein intolerance. *European Journal of Human Genetics*, **2005**, 13, 628-34	5.3	19
29	The highways and byways of prion protein trafficking. *Trends in Cell Biology*, **2005**, 15, 102-11	18.3	143
28	PrP(C) association with lipid rafts in the early secretory pathway stabilizes its cellular conformation. *Molecular Biology of the Cell*, **2004**, 15, 4031-42	3.5	110
27	Lipids as targeting signals: lipid rafts and intracellular trafficking. *Traffic*, **2004**, 5, 247-54	5.7	292

26	The Shp-1 and Shp-2, tyrosine phosphatases, are recruited on cell membrane in two distinct molecular complexes including Ret oncogenes. *Cellular Signalling*, **2004**, 16, 847-56	4.9	8
25	Protein oligomerization modulates raft partitioning and apical sorting of GPI-anchored proteins. *Journal of Cell Biology*, **2004**, 167, 699-709	7.3	198
24	The neuroendocrine protein VGF is sorted into dense-core granules and is secreted apically by polarized rat thyroid epithelial cells. *Experimental Cell Research*, **2004**, 295, 269-80	4.2	8
23	Sensitivity of polarized epithelial cells to the pore-forming toxin aerolysin. *Infection and Immunity*, **2003**, 71, 739-46	3.7	42
22	PrPC is sorted to the basolateral membrane of epithelial cells independently of its association with rafts. *Traffic*, **2002**, 3, 810-21	5.7	74
21	Differential recognition of a tyrosine-dependent signal in the basolateral and endocytic pathways of thyroid epithelial cells. *Endocrinology*, **2002**, 143, 1291-301	4.8	6
20	Detergent-resistant membrane microdomains and apical sorting of GPI-anchored proteins in polarized epithelial cells. *International Journal of Medical Microbiology*, **2002**, 291, 439-45	3.7	15
19	Detergent insoluble microdomains are not involved in transcytosis of polymeric Ig receptor in FRT and MDCK cells. *Traffic*, **2000**, 1, 794-802	5.7	15
18	Detergent-insoluble GPI-anchored proteins are apically sorted in fischer rat thyroid cells, but interference with cholesterol or sphingolipids differentially affects detergent insolubility and apical sorting. *Molecular Biology of the Cell*, **2000**, 11, 531-42	3.5	110
17	Mechanisms of apical protein sorting in polarized thyroid epithelial cells. *Biochimie*, **1999**, 81, 347-53	4.6	12
16	A requirement for caveolin-1 and associated kinase Fyn in integrin signaling and anchorage-dependent cell growth. *Cell*, **1998**, 94, 625-34	56.2	620
15	Caveolin transfection results in caveolae formation but not apical sorting of glycosylphosphatidylinositol (GPI)-anchored proteins in epithelial cells. *Journal of Cell Biology*, **1998** , 140, 617-26	7.3	127
14	Cell Surface Biotinylation Techniques **1994**, 185-192		7
13	VIP21/caveolin, glycosphingolipid clusters and the sorting of glycosylphosphatidylinositol-anchored proteins in epithelial cells.. *EMBO Journal*, **1994**, 13, 42-53	13	125
12	Glycosphingolipid clusters and the sorting of GPI-anchored proteins in epithelial cells. *Brazilian Journal of Medical and Biological Research*, **1994**, 27, 317-22	2.8	2
11	VIP21/caveolin, glycosphingolipid clusters and the sorting of glycosylphosphatidylinositol-anchored proteins in epithelial cells. *EMBO Journal*, **1994**, 13, 42-53	13	47
10	Polarity signals in epithelial cells. *Journal of Cell Science*, **1993**, 17, 9-12	5.3	36
9	Delivery of Na+,K(+)-ATPase in polarized epithelial cells. *Science*, **1993**, 260, 550-2; author reply 554-6	33.3	63

8	Glycosylphosphatidylinositol-anchored proteins are preferentially targeted to the basolateral surface in Fischer rat thyroid epithelial cells. *Journal of Cell Biology*, **1993**, 121, 1031-9	7.3	148
7	Opposite polarity of virus budding and of viral envelope glycoprotein distribution in epithelial cells derived from different tissues. *Journal of Cell Biology*, **1992**, 117, 551-64	7.3	63
6	Polarized secretion of plasminogen activators by epithelial cell monolayers. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **1992**, 1175, 1-6	4.9	14
5	Modulation of transcytotic and direct targeting pathways in a polarized thyroid cell line.. *EMBO Journal*, **1992**, 11, 2337-2344	13	67
4	Modulation of transcytotic and direct targeting pathways in a polarized thyroid cell line. *EMBO Journal*, **1992**, 11, 2337-44	13	37
3	The polarized epithelial phenotype is dominant in hybrids between polarized and unpolarized rat thyroid cell lines. *Journal of Cell Science*, **1991**, 98, 65-73	5.3	13
2	Functional properties of normal and inverted rat thyroid follicles in suspension culture. *Journal of Cellular Physiology*, **1986**, 126, 93-8	7	8
1	Mapping of TNTs using Correlative Cryo-Electron Microscopy Reveals a Novel Structure		2