

Chiara Zurzolo

List of Publications by Citations

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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	A requirement for caveolin-1 and associated kinase Fyn in integrin signaling and anchorage-dependent cell growth. <i>Cell</i> , 1998 , 94, 625-34	56.2	620
114	Prions hijack tunnelling nanotubes for intercellular spread. <i>Nature Cell Biology</i> , 2009 , 11, 328-36	23.4	448
113	Small misfolded Tau species are internalized via bulk endocytosis and anterogradely and retrogradely transported in neurons. <i>Journal of Biological Chemistry</i> , 2013 , 288, 1856-70	5.4	333
112	Lipids as targeting signals: lipid rafts and intracellular trafficking. <i>Traffic</i> , 2004 , 5, 247-54	5.7	292
111	Wiring through tunneling nanotubes--from electrical signals to organelle transfer. <i>Journal of Cell Science</i> , 2012 , 125, 1089-98	5.3	219
110	Tunneling nanotubes spread fibrillar β synuclein by intercellular trafficking of lysosomes. <i>EMBO Journal</i> , 2016 , 35, 2120-2138	13	199
109	Protein oligomerization modulates raft partitioning and apical sorting of GPI-anchored proteins. <i>Journal of Cell Biology</i> , 2004 , 167, 699-709	7.3	198
108	Glycosylphosphatidylinositol-anchored proteins are preferentially targeted to the basolateral surface in Fischer rat thyroid epithelial cells. <i>Journal of Cell Biology</i> , 1993 , 121, 1031-9	7.3	148
107	The highways and byways of prion protein trafficking. <i>Trends in Cell Biology</i> , 2005 , 15, 102-11	18.3	143
106	Identification of an intracellular site of prion conversion. <i>PLoS Pathogens</i> , 2009 , 5, e1000426	7.6	130
105	Caveolin transfection results in caveolae formation but not apical sorting of glycosylphosphatidylinositol (GPI)-anchored proteins in epithelial cells. <i>Journal of Cell Biology</i> , 1998 , 140, 617-26	7.3	127
104	Transfer of polyglutamine aggregates in neuronal cells occurs in tunneling nanotubes. <i>Journal of Cell Science</i> , 2013 , 126, 3678-85	5.3	125
103	Tunneling Nanotubes and Gap Junctions-Their Role in Long-Range Intercellular Communication during Development, Health, and Disease Conditions. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 333	6.1	125
102	VIP21/caveolin, glycosphingolipid clusters and the sorting of glycosylphosphatidylinositol-anchored proteins in epithelial cells.. <i>EMBO Journal</i> , 1994 , 13, 42-53	13	125
101	β Synuclein transfer between neurons and astrocytes indicates that astrocytes play a role in degradation rather than in spreading. <i>Acta Neuropathologica</i> , 2017 , 134, 789-808	14.3	117
100	The cell biology of prion-like spread of protein aggregates: mechanisms and implication in neurodegeneration. <i>Biochemical Journal</i> , 2013 , 452, 1-17	3.8	116
99	Multifaceted roles of tunneling nanotubes in intercellular communication. <i>Frontiers in Physiology</i> , 2012 , 3, 72	4.6	113

98	Tunneling nanotubes: A possible highway in the spreading of tau and other prion-like proteins in neurodegenerative diseases. <i>Prion</i> , 2016 , 10, 344-351	2.3	112
97	PrP(C) association with lipid rafts in the early secretory pathway stabilizes its cellular conformation. <i>Molecular Biology of the Cell</i> , 2004 , 15, 4031-42	3.5	110
96	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. <i>Molecular Biology of the Cell</i> , 2000 , 11, 531-42	3.5	110
95	Myo10 is a key regulator of TNT formation in neuronal cells. <i>Journal of Cell Science</i> , 2013 , 126, 4424-35	5.3	102
94	Correlative cryo-electron microscopy reveals the structure of TNTs in neuronal cells. <i>Nature Communications</i> , 2019 , 10, 342	17.4	93
93	GPI-anchored proteins are directly targeted to the apical surface in fully polarized MDCK cells. <i>Journal of Cell Biology</i> , 2006 , 172, 1023-34	7.3	91
92	Glycosylphosphatidylinositol-anchored proteins: Membrane organization and transport. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 632-9	3.8	76
91	PrPC is sorted to the basolateral membrane of epithelial cells independently of its association with rafts. <i>Traffic</i> , 2002 , 3, 810-21	5.7	74
90	The spread of prion-like proteins by lysosomes and tunneling nanotubes: Implications for neurodegenerative diseases. <i>Journal of Cell Biology</i> , 2017 , 216, 2633-2644	7.3	71
89	Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. <i>Journal of Clinical Investigation</i> , 2013 , 123, 1501-12	15.9	69
88	Tunnelling nanotubes: a highway for prion spreading?. <i>Prion</i> , 2009 , 3, 94-8	2.3	68
87	Modulation of transcytotic and direct targeting pathways in a polarized thyroid cell line.. <i>EMBO Journal</i> , 1992 , 11, 2337-2344	13	67
86	Differential identity of Filopodia and Tunneling Nanotubes revealed by the opposite functions of actin regulatory complexes. <i>Scientific Reports</i> , 2016 , 6, 39632	4.9	65
85	Plasma membrane and lysosomal localization of CB1 cannabinoid receptor are dependent on lipid rafts and regulated by anandamide in human breast cancer cells. <i>FEBS Letters</i> , 2005 , 579, 6343-9	3.8	64
84	Delivery of Na ⁺ ,K ⁽⁺⁾ -ATPase in polarized epithelial cells. <i>Science</i> , 1993 , 260, 550-2; author reply 554-6	33.3	63
83	Opposite polarity of virus budding and of viral envelope glycoprotein distribution in epithelial cells derived from different tissues. <i>Journal of Cell Biology</i> , 1992 , 117, 551-64	7.3	63
82	Different GPI-attachment signals affect the oligomerisation of GPI-anchored proteins and their apical sorting. <i>Journal of Cell Science</i> , 2008 , 121, 4001-7	5.3	59
81	Defined β synuclein prion-like molecular assemblies spreading in cell culture. <i>BMC Neuroscience</i> , 2014 , 15, 69	3.2	58

80	Distinct v-SNAREs regulate direct and indirect apical delivery in polarized epithelial cells. <i>Journal of Cell Science</i> , 2007 , 120, 3309-20	5.3	57
79	Prion aggregates transfer through tunneling nanotubes in endocytic vesicles. <i>Prion</i> , 2015 , 9, 125-35	2.3	55
78	Astrocyte-to-neuron intercellular prion transfer is mediated by cell-cell contact. <i>Scientific Reports</i> , 2016 , 6, 20762	4.9	53
77	Sorting of GPI-anchored proteins from yeast to mammals--common pathways at different sites?. <i>Journal of Cell Science</i> , 2014 , 127, 2793-801	5.3	52
76	Oligomerization is a specific requirement for apical sorting of glycosyl-phosphatidylinositol-anchored proteins but not for non-raft-associated apical proteins. <i>Traffic</i> , 2007 , 8, 251-8	5.7	51
75	alpha-Adducin mutations increase Na/K pump activity in renal cells by affecting constitutive endocytosis: implications for tubular Na reabsorption. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F478-87	4.3	48
74	Identification and Characterization of Tunneling Nanotubes for Intercellular Trafficking. <i>Current Protocols in Cell Biology</i> , 2015 , 67, 12.10.1-12.10.21	2.3	47
73	VIP21/caveolin, glycosphingolipid clusters and the sorting of glycosylphosphatidylinositol-anchored proteins in epithelial cells. <i>EMBO Journal</i> , 1994 , 13, 42-53	13	47
72	Detergent-resistant membrane domains but not the proteasome are involved in the misfolding of a PrP mutant retained in the endoplasmic reticulum. <i>Journal of Cell Science</i> , 2006 , 119, 433-42	5.3	43
71	Lipid rafts and clathrin cooperate in the internalization of PrP in epithelial FRT cells. <i>PLoS ONE</i> , 2009 , 4, e5829	3.7	42
70	Sensitivity of polarized epithelial cells to the pore-forming toxin aerolysin. <i>Infection and Immunity</i> , 2003 , 71, 739-46	3.7	42
69	The prion-like spreading of β synuclein: From in vitro to in vivo models of Parkinson's disease. <i>Ageing Research Reviews</i> , 2019 , 50, 89-101	12	38
68	Characterization of the role of dendritic cells in prion transfer to primary neurons. <i>Biochemical Journal</i> , 2010 , 431, 189-98	3.8	37
67	Modulation of transcytotic and direct targeting pathways in a polarized thyroid cell line. <i>EMBO Journal</i> , 1992 , 11, 2337-44	13	37
66	Polarity signals in epithelial cells. <i>Journal of Cell Science</i> , 1993 , 17, 9-12	5.3	36
65	Golgi sorting regulates organization and activity of GPI proteins at apical membranes. <i>Nature Chemical Biology</i> , 2014 , 10, 350-357	11.7	33
64	Development of antibody fragments for immunotherapy of prion diseases. <i>Biochemical Journal</i> , 2009 , 418, 507-15	3.8	33
63	Tunneling Nanotubes: The Fuel of Tumor Progression?. <i>Trends in Cancer</i> , 2020 , 6, 874-888	12.5	32

62	Drosophila cells use nanotube-like structures to transfer dsRNA and RNAi machinery between cells. <i>Scientific Reports</i> , 2016 , 6, 27085	4.9	31
61	4-hydroxytamoxifen leads to PrPSc clearance by conveying both PrPC and PrPSc to lysosomes independently of autophagy. <i>Journal of Cell Science</i> , 2013 , 126, 1345-54	5.3	31
60	Selective roles for cholesterol and actin in compartmentalization of different proteins in the Golgi and plasma membrane of polarized cells. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29545-53	5.4	31
59	Characterization of the properties and trafficking of an anchorless form of the prion protein. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22747-56	5.4	30
58	Cell Biology of Prion Protein. <i>Progress in Molecular Biology and Translational Science</i> , 2017 , 150, 57-82	4	27
57	Trafficking and Membrane Organization of GPI-Anchored Proteins in Health and Diseases. <i>Current Topics in Membranes</i> , 2015 , 75, 269-303	2.2	27
56	The Wnt/Ca pathway is involved in interneuronal communication mediated by tunneling nanotubes. <i>EMBO Journal</i> , 2019 , 38, e101230	13	27
55	The Ways of Actin: Why Tunneling Nanotubes Are Unique Cell Protrusions. <i>Trends in Cell Biology</i> , 2021 , 31, 130-142	18.3	25
54	Prions: protein only or something more? Overview of potential prion cofactors. <i>Journal of Molecular Neuroscience</i> , 2006 , 29, 195-214	3.3	24
53	Fine intercellular connections in development: TNTs, cytonemes, or intercellular bridges?. <i>Cell Stress</i> , 2020 , 4, 30-43	5.5	24
52	Rab11a-Rab8a cascade regulates the formation of tunneling nanotubes through vesicle recycling. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	22
51	N-Glycosylation instead of cholesterol mediates oligomerization and apical sorting of GPI-APs in FRT cells. <i>Molecular Biology of the Cell</i> , 2011 , 22, 4621-34	3.5	21
50	N- and O-glycans are not directly involved in the oligomerization and apical sorting of GPI proteins. <i>Traffic</i> , 2008 , 9, 2141-50	5.7	21
49	Patient-derived glioblastoma stem cells transfer mitochondria through tunneling nanotubes in tumor organoids. <i>Biochemical Journal</i> , 2021 , 478, 21-39	3.8	20
48	Effect of tolytoxin on tunneling nanotube formation and function. <i>Scientific Reports</i> , 2019 , 9, 5741	4.9	19
47	A $\gamma(+)$ LAT-1 mutant protein interferes with $\gamma(+)$ LAT-2 activity: implications for the molecular pathogenesis of lysinuric protein intolerance. <i>European Journal of Human Genetics</i> , 2005 , 13, 628-34	5.3	19
46	Analysis of detergent-resistant membranes associated with apical and basolateral GPI-anchored proteins in polarized epithelial cells. <i>FEBS Letters</i> , 2006 , 580, 5705-12	3.8	17
45	Fate and propagation of endogenously formed Tau aggregates in neuronal cells. <i>EMBO Molecular Medicine</i> , 2020 , 12, e12025	12	16

44	Cluvenone induces apoptosis via a direct target in mitochondria: a possible mechanism to circumvent chemo-resistance?. <i>Investigational New Drugs</i> , 2012 , 30, 1841-8	4.3	15
43	Doppel and PrPC co-immunoprecipitate in detergent-resistant membrane domains of epithelial FRT cells. <i>Biochemical Journal</i> , 2009 , 425, 341-51	3.8	15
42	Detergent insoluble microdomains are not involved in transcytosis of polymeric Ig receptor in FRT and MDCK cells. <i>Traffic</i> , 2000 , 1, 794-802	5.7	15
41	Detergent-resistant membrane microdomains and apical sorting of GPI-anchored proteins in polarized epithelial cells. <i>International Journal of Medical Microbiology</i> , 2002 , 291, 439-45	3.7	15
40	Peering into tunneling nanotubes-The path forward. <i>EMBO Journal</i> , 2021 , 40, e105789	13	15
39	Tunneling nanotubes: Reshaping connectivity. <i>Current Opinion in Cell Biology</i> , 2021 , 71, 139-147	9	15
38	Actin Assembly around the Shigella-Containing Vacuole Promotes Successful Infection. <i>Cell Reports</i> , 2020 , 31, 107638	10.6	14
37	Organization of GPI-anchored proteins at the cell surface and its physiopathological relevance. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2018 , 53, 403-419	8.7	14
36	Exploring the role of lipids in intercellular conduits: breakthroughs in the pipeline. <i>Frontiers in Plant Science</i> , 2013 , 4, 504	6.2	14
35	Polarized secretion of plasminogen activators by epithelial cell monolayers. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1992 , 1175, 1-6	4.9	14
34	Trafficking and degradation pathways in pathogenic conversion of prions and prion-like proteins in neurodegenerative diseases. <i>Virus Research</i> , 2015 , 207, 146-54	6.4	13
33	The 37/67 kDa laminin receptor (LR) inhibitor, NSC47924, affects 37/67 kDa LR cell surface localization and interaction with the cellular prion protein. <i>Scientific Reports</i> , 2016 , 6, 24457	4.9	13
32	The polarized epithelial phenotype is dominant in hybrids between polarized and unpolarized rat thyroid cell lines. <i>Journal of Cell Science</i> , 1991 , 98, 65-73	5.3	13
31	Rab35 and its effectors promote formation of tunneling nanotubes in neuronal cells. <i>Scientific Reports</i> , 2020 , 10, 16803	4.9	13
30	Determining the role of mononuclear phagocytes in prion neuroinvasion from the skin. <i>Journal of Leukocyte Biology</i> , 2012 , 91, 817-28	6.5	12
29	Gene expression profile of quinacrine-cured prion-infected mouse neuronal cells. <i>Journal of Neurochemistry</i> , 2008 , 105, 239-50	6	12
28	Coexpression of wild-type and mutant prion proteins alters their cellular localization and partitioning into detergent-resistant membranes. <i>Traffic</i> , 2008 , 9, 1101-15	5.7	12
27	Functional interaction between p75NTR and TrkA: the endocytic trafficking of p75NTR is driven by TrkA and regulates TrkA-mediated signalling. <i>Biochemical Journal</i> , 2005 , 385, 233-41	3.8	12

26	Mechanisms of apical protein sorting in polarized thyroid epithelial cells. <i>Biochimie</i> , 1999 , 81, 347-53	4.6	12
25	Transfer of disrupted-in-schizophrenia 1 aggregates between neuronal-like cells occurs in tunnelling nanotubes and is promoted by dopamine. <i>Open Biology</i> , 2017 , 7,	7	11
24	Regulation of sub-compartmental targeting and folding properties of the Prion-like protein Shadoo. <i>Scientific Reports</i> , 2017 , 7, 3731	4.9	11
23	Human NPCs can degrade β syn fibrils and transfer them preferentially in a cell contact-dependent manner possibly through TNT-like structures. <i>Neurobiology of Disease</i> , 2019 , 132, 104609	7.5	11
22	β Synuclein fibrils subvert lysosome structure and function for the propagation of protein misfolding between cells through tunneling nanotubes. <i>PLoS Biology</i> , 2021 , 19, e3001287	9.7	11
21	The Priority position paper: Protecting Europe's food chain from prions. <i>Prion</i> , 2016 , 10, 165-81	2.3	10
20	Clustering in the Golgi apparatus governs sorting and function of GPI-APs in polarized epithelial cells. <i>FEBS Letters</i> , 2019 , 593, 2351-2365	3.8	9
19	The fate of PrP GPI-anchor signal peptide is modulated by P238S pathogenic mutation. <i>Traffic</i> , 2014 , 15, 78-93	5.7	9
18	The Shp-1 and Shp-2, tyrosine phosphatases, are recruited on cell membrane in two distinct molecular complexes including Ret oncogenes. <i>Cellular Signalling</i> , 2004 , 16, 847-56	4.9	8
17	The neuroendocrine protein VGF is sorted into dense-core granules and is secreted apically by polarized rat thyroid epithelial cells. <i>Experimental Cell Research</i> , 2004 , 295, 269-80	4.2	8
16	Functional properties of normal and inverted rat thyroid follicles in suspension culture. <i>Journal of Cellular Physiology</i> , 1986 , 126, 93-8	7	8
15	Cell Surface Biotinylation Techniques 1994 , 185-192		7
14	Differential recognition of a tyrosine-dependent signal in the basolateral and endocytic pathways of thyroid epithelial cells. <i>Endocrinology</i> , 2002 , 143, 1291-301	4.8	6
13	Ischaemia impacts TNT-mediated communication between cardiac cells 2020 , 1, 100001		6
12	Not on the menu: autophagy-independent clearance of prions. <i>Prion</i> , 2013 , 7, 286-90	2.3	4
11	PrPC Undergoes Basal to Apical Transcytosis in Polarized Epithelial MDCK Cells. <i>PLoS ONE</i> , 2016 , 11, e0157991	3.7	4
10	GPI-anchored proteins are confined in subdiffraction clusters at the apical surface of polarized epithelial cells. <i>Biochemical Journal</i> , 2017 , 474, 4075-4090	3.8	3
9	Cytosolically expressed PrP GPI-signal peptide interacts with mitochondria. <i>Communicative and Integrative Biology</i> , 2015 , 8, e1036206	1.7	2

8	Seeing eye to eye: photoreceptors employ nanotube-like connections for material transfer. <i>EMBO Journal</i> , 2021 , 40, e109727	13	2
7	Glycosphingolipid clusters and the sorting of GPI-anchored proteins in epithelial cells. <i>Brazilian Journal of Medical and Biological Research</i> , 1994 , 27, 317-22	2.8	2
6	Mapping of TNTs using Correlative Cryo-Electron Microscopy Reveals a Novel Structure		2
5	Chapter 14 Mechanisms of Polarized Sorting of GPI-anchored Proteins in Epithelial Cells. <i>The Enzymes</i> , 2009 , 289-319	2.3	1
4	The best of both worlds-bringing together cell biology and infection at the Institut Pasteur. <i>Genes and Immunity</i> , 2019 , 20, 426-435	4.4	
3	The best of both worlds- bringing together cell biology and infection at the Institut Pasteur. <i>Microbes and Infection</i> , 2019 , 21, 254-262	9.3	
2	Cell Surface Biotinylation and Other Techniques for Determination of Surface Polarity of Epithelial Monolayers 2006 , 241-249		
1	Lipid Rafts in Trafficking and Processing of Prion Protein and Amyloid Precursor Protein 2006 , 205-231		