Victor Faundez

List of Publications by Citations

111 papers	5,259 citations	44 h-index	70 g-index
129 ext. papers	5,977 ext. citations	6.5 avg, IF	5.36 L-index

#	Paper	IF	Citations
111	BLOC-1 Brings Together the Actin and Microtubule Cytoskeletons to Generate Recycling Endosomes. *Current Biology*, **2016**, 26, 1-13	6.3	421
110	Cellular levels of p120 catenin function as a set point for cadherin expression levels in microvascular endothelial cells. *Journal of Cell Biology*, **2003**, 163, 535-45	7.3	344
109	A function for the AP3 coat complex in synaptic vesicle formation from endosomes. *Cell*, **1998**, 93, 423-32	36.2	259
108	p120-Catenin regulates clathrin-dependent endocytosis of VE-cadherin. *Molecular Biology of the Cell*, **2005**, 16, 5141-51	3.5	210
107	p120-catenin binding masks an endocytic signal conserved in classical cadherins. *Journal of Cell Biology*, **2012**, 199, 365-80	7.3	141
106	Mechanisms of VE-cadherin processing and degradation in microvascular endothelial cells. *Journal of Biological Chemistry*, **2003**, 278, 19199-208	5.4	121
105	The endo-lysosomal sorting machinery interacts with the intermediate filament cytoskeleton. *Molecular Biology of the Cell*, **2004**, 15, 5369-82	3.5	119
104	Phosphatidylinositol-4-kinase type II alpha contains an AP-3-sorting motif and a kinase domain that are both required for endosome traffic. *Molecular Biology of the Cell*, **2008**, 19, 1415-26	3.5	103
103	Neuronal and non-neuronal functions of the AP-3 sorting machinery. *Journal of Cell Science*, **2007**, 120, 531-41	5.3	102
102	BLOC-1 complex deficiency alters the targeting of adaptor protein complex-3 cargoes. *Molecular Biology of the Cell*, **2006**, 17, 4014-26	3.5	100
101	Pemphigus vulgaris IgG-induced desmoglein-3 endocytosis and desmosomal disassembly are mediated by a clathrin- and dynamin-independent mechanism. *Journal of Biological Chemistry*, **2008**, 283, 18303-13	5.4	97
100	Anoctamin 1 (Tmem16A) Ca2+-activated chloride channel stoichiometrically interacts with an ezrin-radixin-moesin network. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 10376-81	11.5	96
99	AP-3-dependent mechanisms control the targeting of a chloride channel (ClC-3) in neuronal and non-neuronal cells. *Journal of Biological Chemistry*, **2004**, 279, 25430-9	5.4	95
98	Phosphatidylinositol-4-kinase type II alpha is a component of adaptor protein-3-derived vesicles. *Molecular Biology of the Cell*, **2005**, 16, 3692-704	3.5	95
97	The zinc transporter ZnT3 interacts with AP-3 and it is preferentially targeted to a distinct synaptic vesicle subpopulation. *Molecular Biology of the Cell*, **2004**, 15, 575-87	3.5	94
96	ADP ribosylation factor 1 is required for synaptic vesicle budding in PC12 cells. *Journal of Cell Biology*, **1997**, 138, 505-15	7.3	92
95	Neuroendocrine synaptic vesicles are formed in vitro by both clathrin-dependent and clathrin-independent pathways. *Journal of Cell Biology*, **1998**, 143, 947-55	7.3	89

94	A mutation of beta -actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia. *American Journal of Human Genetics*, **2006**, 78, 947-60	11	87
93	A v-SNARE participates in synaptic vesicle formation mediated by the AP3 adaptor complex. *Nature Neuroscience*, **1998**, 1, 551-6	25.5	84
92	A biochemical and functional protein complex involving dopamine synthesis and transport into synaptic vesicles. *Journal of Biological Chemistry*, **2010**, 285, 1957-66	5.4	82
91	An MBoC Favorite: Axonal membrane proteins are transported in distinct carriers: a two-color video microscopy study in cultured hippocampal neurons. *Molecular Biology of the Cell*, **2012**, 23, 2015-2015	3.5	78
90	Hermansky-Pudlak syndrome protein complexes associate with phosphatidylinositol 4-kinase type II alpha in neuronal and non-neuronal cells. *Journal of Biological Chemistry*, **2009**, 284, 1790-802	5.4	76
89	Roles of BLOC-1 and adaptor protein-3 complexes in cargo sorting to synaptic vesicles. *Molecular Biology of the Cell*, **2009**, 20, 1441-53	3.5	76
88	Vglut1 and ZnT3 co-targeting mechanisms regulate vesicular zinc stores in PC12 cells. *Journal of Cell Science*, **2005**, 118, 1911-21	5.3	76
87	p120-catenin inhibits VE-cadherin internalization through a Rho-independent mechanism. *Molecular Biology of the Cell*, **2009**, 20, 1970-80	3.5	75
86	Quantitative proteomic and genetic analyses of the schizophrenia susceptibility factor dysbindin identify novel roles of the biogenesis of lysosome-related organelles complex 1. *Journal of Neuroscience*, **2012**, 32, 3697-711	6.6	74
85	The neuronal form of adaptor protein-3 is required for synaptic vesicle formation from endosomes. *Journal of Neuroscience*, **2001**, 21, 8034-42	6.6	73
84	Intermediate filaments and vesicular membrane traffic: the odd couple's first dance?. *Traffic*, **2005**, 6, 359-65	5.7	71
83	Neurodevelopmental disorders: mechanisms and boundary definitions from genomes, interactomes and proteomes. *Translational Psychiatry*, **2013**, 3, e329	8.6	68
82	Genetic analysis of the neuronal and ubiquitous AP-3 adaptor complexes reveals divergent functions in brain. *Molecular Biology of the Cell*, **2005**, 16, 128-40	3.5	65
81	The WASH complex, an endosomal Arp2/3 activator, interacts with the Hermansky-Pudlak syndrome complex BLOC-1 and its cargo phosphatidylinositol-4-kinase type II. *Molecular Biology of the Cell*, **2013**, 24, 2269-84	3.5	63
80	Anthrax toxin receptor 1/tumor endothelium marker 8 mediates cell spreading by coupling extracellular ligands to the actin cytoskeleton. *Journal of Biological Chemistry*, **2006**, 281, 23227-36	5.4	63
79	Intracellular chloride channels: determinants of function in the endosomal pathway. *Science Signaling*, **2004**, 2004, re8	8.8	57
78	Desmosome assembly and disassembly are membrane raft-dependent. *PLoS ONE*, **2014**, 9, e87809	3.7	56
77	Cell biology of the BLOC-1 complex subunit dysbindin, a schizophrenia susceptibility gene. *Molecular Neurobiology*, **2011**, 44, 53-64	6.2	55

76	The schizophrenia susceptibility factor dysbindin and its associated complex sort cargoes from cell bodies to the synapse. *Molecular Biology of the Cell*, **2011**, 22, 4854-67	3.5	55
75	SPE-39 family proteins interact with the HOPS complex and function in lysosomal delivery. *Molecular Biology of the Cell*, **2009**, 20, 1223-40	3.5	53
74	Vesiculation and sorting from PC12-derived endosomes in vitro. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 11223-8	11.5	53
73	Tissue nonspecific alkaline phosphatase is activated via a two-step mechanism by zinc transport complexes in the early secretory pathway. *Journal of Biological Chemistry*, **2011**, 286, 16363-73	5.4	49
72	Mint3/X11gamma is an ADP-ribosylation factor-dependent adaptor that regulates the traffic of the Alzheimer's Precursor protein from the trans-Golgi network. *Molecular Biology of the Cell*, **2008**, 19, 51-64	3.5	49
71	Reconstitution of synaptic vesicle biogenesis from PC12 cell membranes. *Methods*, **1998**, 16, 150-9	4.6	49
70	The Endolysosomal System and Proteostasis: From Development to Degeneration. *Journal of Neuroscience*, **2018**, 38, 9364-9374	6.6	49
69	The interactome of the copper transporter ATP7A belongs to a network of neurodevelopmental and neurodegeneration factors. *ELife*, **2017**, 6,	8.9	46
68	Hermansky-Pudlak protein complexes, AP-3 and BLOC-1, differentially regulate presynaptic composition in the striatum and hippocampus. *Journal of Neuroscience*, **2010**, 30, 820-31	6.6	45
67	SLC30A3 (ZnT3) oligomerization by dityrosine bonds regulates its subcellular localization and metal transport capacity. *PLoS ONE*, **2009**, 4, e5896	3.7	42
66	BLOC-1 is required for selective membrane protein trafficking from endosomes to primary cilia. *Journal of Cell Biology*, **2017**, 216, 2131-2150	7.3	39
65	Gene dosage in the dysbindin schizophrenia susceptibility network differentially affect synaptic function and plasticity. *Journal of Neuroscience*, **2015**, 35, 325-38	6.6	35
64	Saccharomyces cerevisiae Npc2p is a functionally conserved homologue of the human Niemann-Pick disease type C 2 protein, hNPC2. *Eukaryotic Cell*, **2005**, 4, 1851-62		35
63	Schizophrenia: the "BLOC" may be in the endosomes. *Science Signaling*, **2009**, 2, pe66	8.8	34
62	MeCP2 regulates the synaptic expression of a Dysbindin-BLOC-1 network component in mouse brain and human induced pluripotent stem cell-derived neurons. *PLoS ONE*, **2013**, 8, e65069	3.7	34
61	Ratiometric two-photon microscopy reveals attomolar copper buffering in normal and Menkes mutant cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 12167-12172	11.5	33
60	Trafficking mechanisms of P-type ATPase copper transporters. *Current Opinion in Cell Biology*, **2019**, 59, 24-33	9	29
59	Molecular basis of neurodegeneration and neurodevelopmental defects in Menkes disease. *Neurobiology of Disease*, **2015**, 81, 154-61	7.5	29

58	Ciprofibrate, a carcinogenic peroxisome proliferator, increases the phosphorylation of epidermal-growth-factor receptor in isolated rat hepatocytes. *FEBS Journal*, **1993**, 215, 903-6		28
57	The subcellular localization of the Niemann-Pick Type C proteins depends on the adaptor complex AP-3. *Journal of Cell Science*, **2007**, 120, 3640-52	5.3	27
56	Epidermal growth factor receptor in synaptic fractions of the rat central nervous system. *Journal of Biological Chemistry*, **1992**, 267, 20363-70	5.4	27
55	Mutations in the BLOC-1 subunits dysbindin and muted generate divergent and dosage-dependent phenotypes. *Journal of Biological Chemistry*, **2014**, 289, 14291-300	5.4	26
54	Epidermal growth factor receptor in synaptic fractions of the rat central nervous system.. *Journal of Biological Chemistry*, **1992**, 267, 20363-20370	5.4	26
53	The N-ethylmaleimide-sensitive factor and dysbindin interact to modulate synaptic plasticity. *Journal of Neuroscience*, **2015**, 35, 7643-53	6.6	23
52	Presynaptic membrane retrieval and endosome biology: defining molecularly heterogeneous synaptic vesicles. *Cold Spring Harbor Perspectives in Biology*, **2013**, 5, a016915	10.2	23
51	Isolation of labile multi-protein complexes by in vivo controlled cellular cross-linking and immuno-magnetic affinity chromatography. *Journal of Visualized Experiments*, **2010**,	1.6	23
50	Vesicles derived via AP-3-dependent recycling contribute to asynchronous release and influence information transfer. *Nature Communications*, **2014**, 5, 5530	17.4	22
49	Clathrin-dependent mechanisms modulate the subcellular distribution of class C Vps/HOPS tether subunits in polarized and nonpolarized cells. *Molecular Biology of the Cell*, **2011**, 22, 1699-715	3.5	22
48	Neuronal copper homeostasis susceptibility by genetic defects in dysbindin, a schizophrenia susceptibility factor. *Human Molecular Genetics*, **2015**, 24, 5512-23	5.6	21
47	Vps33b pathogenic mutations preferentially affect VIPAS39/SPE-39-positive endosomes. *Human Molecular Genetics*, **2013**, 22, 5215-28	5.6	20
46	Axons Sprout and Microtubules Increase After Local Inhibition of RNA Synthesis, and Microtubules Decrease after Inhibition of Protein Synthesis: A Morphometric Study of Rat Sural Nerves. *European Journal of Neuroscience*, **1991**, 3, 1123-1133	3.5	20
45	Microtubules and calibers in developing axons. *Journal of Comparative Neurology*, **1986**, 250, 73-80	3.4	20
44	Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior. *Journal of Neuroscience*, **2019**, 39, 3561-3581	6.6	19
43	The N-BAR domain protein, Bin3, regulates Rac1- and Cdc42-dependent processes in myogenesis. *Developmental Biology*, **2013**, 382, 160-71	3.1	19
42	The Proteome of BLOC-1 Genetic Defects Identifies the Arp2/3 Actin Polymerization Complex to Function Downstream of the Schizophrenia Susceptibility Factor Dysbindin at the Synapse. *Journal of Neuroscience*, **2016**, 36, 12393-12411	6.6	19
41	Rare Genetic Diseases: Nature's Experiments on Human Development. *IScience*, **2020**, 23, 101123	6.1	18

40	Anatomical localization of Cav3.1 calcium channels and electrophysiological effects of T-type calcium channel blockade in the motor thalamus of MPTP-treated monkeys. *Journal of Neurophysiology*, **2016**, 115, 470-85	3.2	17
39	Dysbindin Deficiency Modifies the Expression of GABA Neuron and Ion Permeation Transcripts in the Developing Hippocampus. *Frontiers in Genetics*, **2017**, 8, 28	4.5	16
38	Architecture of the vimentin cytoskeleton is modified by perturbation of the GTPase ARF1. *Journal of Cell Science*, **2006**, 119, 3643-54	5.3	16
37	Chemical-genetic disruption of clathrin function spares adaptor complex 3-dependent endosome vesicle biogenesis. *Molecular Biology of the Cell*, **2013**, 24, 2378-88	3.5	15
36	Metazoan cell biology of the HOPS tethering complex. *Cellular Logistics*, **2011**, 1, 111-117		14
35	Endosomal recycling regulates Anthrax Toxin Receptor 1/Tumor Endothelial Marker 8-dependent cell spreading. *Experimental Cell Research*, **2010**, 316, 1946-57	4.2	14
34	Rare Disease Mechanisms Identified by Genealogical Proteomics of Copper Homeostasis Mutant Pedigrees. *Cell Systems*, **2018**, 6, 368-380.e6	10.6	13
33	Neurodevelopmental disease mechanisms, primary cilia, and endosomes converge on the BLOC-1 and BORC complexes. *Developmental Neurobiology*, **2018**, 78, 311-330	3.2	13
32	An AP-3-dependent mechanism drives synaptic-like microvesicle biogenesis in pancreatic islet beta-cells. *American Journal of Physiology - Endocrinology and Metabolism*, **2010**, 299, E23-32	6	10
31	Neuronal zinc stores are modulated by non-steroidal anti-inflammatory drugs: an optical analysis in cultured hippocampal neurons. *Brain Research*, **2005**, 1061, 1-12	3.7	10
30	Calcyon, a mammalian specific NEEP21 family member, interacts with adaptor protein complex 3 (AP-3) and regulates targeting of AP-3 cargoes. *Journal of Neurochemistry*, **2012**, 123, 60-72	6	9
29	Calibers and microtubules of nerve fibers: differential effect of undernutrition in developing and adult rats. *Brain Research*, **1990**, 509, 198-204	3.7	8
28	The Endosome Localized Arf-GAP AGAP1 Modulates Dendritic Spine Morphology Downstream of the Neurodevelopmental Disorder Factor Dysbindin. *Frontiers in Cellular Neuroscience*, **2016**, 10, 218	6.1	8
27	Cellular and molecular mechanisms of neurodevelopmental disorders. *Journal of Neuroscience Research*, **2017**, 95, 1093-1096	4.4	7
26	Translating molecular advances in Down syndrome and Fragile X syndrome into therapies. *European Neuropsychopharmacology*, **2018**, 28, 675-690	1.2	7
25	Molecular Systems Biology of Neurodevelopmental Disorders, Rett Syndrome as an Archetype. *Frontiers in Integrative Neuroscience*, **2019**, 13, 30	3.2	7
24	A comprehensive strategy to identify stoichiometric membrane protein interactomes. *Cellular Logistics*, **2012**, 2, 189-196		7
23	Cdh1-APC Regulates Protein Synthesis and Stress Granules in Neurons through an FMRP-Dependent Mechanism. *IScience*, **2020**, 23, 101132	6.1	6

22	Isolation of synaptic vesicles. *Current Protocols in Cell Biology*, **2004**, Chapter 3, Unit 3.12	2.3	5
21	Identification of the Interactome of a Palmitoylated Membrane Protein, Phosphatidylinositol 4-Kinase Type II Alpha. *Methods in Molecular Biology*, **2016**, 1376, 35-42	1.4	5
20	Integrative biological simulation praxis: Considerations from physics, philosophy, and data/model curation practices. *Cellular Logistics*, **2017**, 7, e1392400		4
19	Adaptor protein-3 complex is required for Vangl2 trafficking and planar cell polarity of the inner ear. *Molecular Biology of the Cell*, **2019**, 30, 2422-2434	3.5	4
18	Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior		4
17	Golgi-Dependent Copper Homeostasis Sustains Synaptic Development and Mitochondrial Content. *Journal of Neuroscience*, **2021**, 41, 215-233	6.6	4
16	Beta 2-adrenergic receptor endocytic pathway is controlled by a saturable mechanism distinct from that of transferrin receptor. *Receptors and Channels*, **1999**, 6, 255-69		4
15	On the endosomal function and gene nomenclature of human SPE-39. *Nature Genetics*, **2011**, 43, 176	36.3	3
14	The physician-scientist, 75 years after Vannevar Bush-rethinking the ℞bench℞and ℞bedside℞ dichotomy. *Nature Medicine*, **2020**, 26, 461-462	50.5	2
13	Understanding microcephaly through the study of centrosome regulation in Drosophila neural stem cells. *Biochemical Society Transactions*, **2020**, 48, 2101-2115	5.1	2
12	FMRP attenuates activity dependent modifications in the mitochondrial proteome. *Molecular Brain*, **2021**, 14, 75	4.5	2
11	Re-examining physician-scientist training through the prism of the discovery-invention cycle. *F1000Research*, **2019**, 8, 2123	3.6	1
10	Mitochondrial Structure and Polarity in Dendrites and the Axon Initial Segment Are Regulated by Homeostatic Plasticity and Dysregulated in Fragile X Syndrome. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 702020	5.7	1
9	Loss of the mitochondrial phosphate carrier SLC25A3 induces remodeling of the cardiac mitochondrial protein acylome. *American Journal of Physiology - Cell Physiology*, **2021**, 321, C519-C534	5.4	1
8	Sulfur- and phosphorus-standardized metal quantification of biological specimens using inductively coupled plasma mass spectrometry.. *STAR Protocols*, **2022**, 3, 101334	1.4	1
7	Protocol for Immuno-Enrichment of FLAG-Tagged Protein Complexes. *STAR Protocols*, **2020**, 1, 100083	1.4	0
6	Mitochondrial Proteostasis Requires Genes Encoded in a Neurodevelopmental Syndrome Locus. *Journal of Neuroscience*, **2021**, 41, 6596-6616	6.6	0
5	EMBO workshop al fin del mundo: a meeting on membrane trafficking and its implication for polarity and diseases. *Biology of the Cell*, **2015**, 107, 245-8	3.5	

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3 Teaching resources. Chloride concentration and pH along the endosomal pathway. *Sciencels STKE: Signal Transduction Knowledge Environment*, **2004**, 2004, tr2

2 Molecular Genetics of Menkes Disease1-6

1 Sex-dimorphic effects of biogenesis of lysosome-related organelles complex-1 deficiency on mouse perinatal brain development. *Journal of Neuroscience Research*, **2021**, 99, 67-89 4.4