

Victor Faundez

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.

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	Sulfur- and phosphorus-standardized metal quantification of biological specimens using inductively coupled plasma mass spectrometry.. <i>STAR Protocols</i> , 2022 , 3, 101334	1.4	1
110	FMRP attenuates activity dependent modifications in the mitochondrial proteome. <i>Molecular Brain</i> , 2021 , 14, 75	4.5	2
109	Mitochondrial Structure and Polarity in Dendrites and the Axon Initial Segment Are Regulated by Homeostatic Plasticity and Dysregulated in Fragile X Syndrome. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 702020	5.7	1
108	Sex-dimorphic effects of biogenesis of lysosome-related organelles complex-1 deficiency on mouse perinatal brain development. <i>Journal of Neuroscience Research</i> , 2021 , 99, 67-89	4.4	
107	Golgi-Dependent Copper Homeostasis Sustains Synaptic Development and Mitochondrial Content. <i>Journal of Neuroscience</i> , 2021 , 41, 215-233	6.6	4
106	Mitochondrial Proteostasis Requires Genes Encoded in a Neurodevelopmental Syndrome Locus. <i>Journal of Neuroscience</i> , 2021 , 41, 6596-6616	6.6	0
105	Loss of the mitochondrial phosphate carrier SLC25A3 induces remodeling of the cardiac mitochondrial protein acylome. <i>American Journal of Physiology - Cell Physiology</i> , 2021 , 321, C519-C534	5.4	1
104	Rare Genetic Diseases: Nature's Experiments on Human Development. <i>IScience</i> , 2020 , 23, 101123	6.1	18
103	The physician-scientist, 75 years after Vannevar Bush-rethinking the Bench and Bedside dichotomy. <i>Nature Medicine</i> , 2020 , 26, 461-462	50.5	2
102	Understanding microcephaly through the study of centrosome regulation in Drosophila neural stem cells. <i>Biochemical Society Transactions</i> , 2020 , 48, 2101-2115	5.1	2
101	Cdh1-APC Regulates Protein Synthesis and Stress Granules in Neurons through an FMRP-Dependent Mechanism. <i>IScience</i> , 2020 , 23, 101132	6.1	6
100	Protocol for Immuno-Enrichment of FLAG-Tagged Protein Complexes. <i>STAR Protocols</i> , 2020 , 1, 100083	1.4	0
99	Ratiometric two-photon microscopy reveals attomolar copper buffering in normal and Menkes mutant cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12167-12172	11.5	33
98	Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior. <i>Journal of Neuroscience</i> , 2019 , 39, 3561-3581	6.6	19
97	Trafficking mechanisms of P-type ATPase copper transporters. <i>Current Opinion in Cell Biology</i> , 2019 , 59, 24-33	9	29
96	Molecular Systems Biology of Neurodevelopmental Disorders, Rett Syndrome as an Archetype. <i>Frontiers in Integrative Neuroscience</i> , 2019 , 13, 30	3.2	7
95	Adaptor protein-3 complex is required for Vangl2 trafficking and planar cell polarity of the inner ear. <i>Molecular Biology of the Cell</i> , 2019 , 30, 2422-2434	3.5	4

94	Re-examining physician-scientist training through the prism of the discovery-invention cycle. <i>F1000Research</i> , 2019 , 8, 2123	3.6	1
93	Rare Disease Mechanisms Identified by Genealogical Proteomics of Copper Homeostasis Mutant Pedigrees. <i>Cell Systems</i> , 2018 , 6, 368-380.e6	10.6	13
92	Neurodevelopmental disease mechanisms, primary cilia, and endosomes converge on the BLOC-1 and BORC complexes. <i>Developmental Neurobiology</i> , 2018 , 78, 311-330	3.2	13
91	Translating molecular advances in Down syndrome and Fragile X syndrome into therapies. <i>European Neuropsychopharmacology</i> , 2018 , 28, 675-690	1.2	7
90	The Endolysosomal System and Proteostasis: From Development to Degeneration. <i>Journal of Neuroscience</i> , 2018 , 38, 9364-9374	6.6	49
89	Cellular and molecular mechanisms of neurodevelopmental disorders. <i>Journal of Neuroscience Research</i> , 2017 , 95, 1093-1096	4.4	7
88	BLOC-1 is required for selective membrane protein trafficking from endosomes to primary cilia. <i>Journal of Cell Biology</i> , 2017 , 216, 2131-2150	7.3	39
87	Integrative biological simulation praxis: Considerations from physics, philosophy, and data/model curation practices. <i>Cellular Logistics</i> , 2017 , 7, e1392400		4
86	Dysbindin Deficiency Modifies the Expression of GABA Neuron and Ion Permeation Transcripts in the Developing Hippocampus. <i>Frontiers in Genetics</i> , 2017 , 8, 28	4.5	16
85	The interactome of the copper transporter ATP7A belongs to a network of neurodevelopmental and neurodegeneration factors. <i>ELife</i> , 2017 , 6,	8.9	46
84	Anatomical localization of Cav3.1 calcium channels and electrophysiological effects of T-type calcium channel blockade in the motor thalamus of MPTP-treated monkeys. <i>Journal of Neurophysiology</i> , 2016 , 115, 470-85	3.2	17
83	BLOC-1 Brings Together the Actin and Microtubule Cytoskeletons to Generate Recycling Endosomes. <i>Current Biology</i> , 2016 , 26, 1-13	6.3	421
82	Identification of the Interactome of a Palmitoylated Membrane Protein, Phosphatidylinositol 4-Kinase Type II Alpha. <i>Methods in Molecular Biology</i> , 2016 , 1376, 35-42	1.4	5
81	The Endosome Localized Arf-GAP AGAP1 Modulates Dendritic Spine Morphology Downstream of the Neurodevelopmental Disorder Factor Dysbindin. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 218	6.1	8
80	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. <i>Journal of Neuroscience</i> , 2016 , 36, 12393-12411	6.6	19
79	Neuronal copper homeostasis susceptibility by genetic defects in dysbindin, a schizophrenia susceptibility factor. <i>Human Molecular Genetics</i> , 2015 , 24, 5512-23	5.6	21
78	Molecular basis of neurodegeneration and neurodevelopmental defects in Menkes disease. <i>Neurobiology of Disease</i> , 2015 , 81, 154-61	7.5	29
77	The N-ethylmaleimide-sensitive factor and dysbindin interact to modulate synaptic plasticity. <i>Journal of Neuroscience</i> , 2015 , 35, 7643-53	6.6	23

76	EMBO workshop al fin del mundo: a meeting on membrane trafficking and its implication for polarity and diseases. <i>Biology of the Cell</i> , 2015 , 107, 245-8	3.5	
75	Gene dosage in the dysbindin schizophrenia susceptibility network differentially affect synaptic function and plasticity. <i>Journal of Neuroscience</i> , 2015 , 35, 325-38	6.6	35
74	Desmosome assembly and disassembly are membrane raft-dependent. <i>PLoS ONE</i> , 2014 , 9, e87809	3.7	56
73	Mutations in the BLOC-1 subunits dysbindin and muted generate divergent and dosage-dependent phenotypes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 14291-300	5.4	26
72	Vesicles derived via AP-3-dependent recycling contribute to asynchronous release and influence information transfer. <i>Nature Communications</i> , 2014 , 5, 5530	17.4	22
71	The N-BAR domain protein, Bin3, regulates Rac1- and Cdc42-dependent processes in myogenesis. <i>Developmental Biology</i> , 2013 , 382, 160-71	3.1	19
70	Presynaptic membrane retrieval and endosome biology: defining molecularly heterogeneous synaptic vesicles. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013 , 5, a016915	10.2	23
69	Chemical-genetic disruption of clathrin function spares adaptor complex 3-dependent endosome vesicle biogenesis. <i>Molecular Biology of the Cell</i> , 2013 , 24, 2378-88	3.5	15
68	Vps33b pathogenic mutations preferentially affect VIPAS39/SPE-39-positive endosomes. <i>Human Molecular Genetics</i> , 2013 , 22, 5215-28	5.6	20
67	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 \square <i>Molecular Biology of the Cell</i> , 2013 , 24, 2269-84	3.5	63
66	Neurodevelopmental disorders: mechanisms and boundary definitions from genomes, interactomes and proteomes. <i>Translational Psychiatry</i> , 2013 , 3, e329	8.6	68
65	MeCP2 regulates the synaptic expression of a Dysbindin-BLOC-1 network component in mouse brain and human induced pluripotent stem cell-derived neurons. <i>PLoS ONE</i> , 2013 , 8, e65069	3.7	34
64	Calcyon, a mammalian specific NEEP21 family member, interacts with adaptor protein complex 3 (AP-3) and regulates targeting of AP-3 cargoes. <i>Journal of Neurochemistry</i> , 2012 , 123, 60-72	6	9
63	Anoctamin 1 (Tmem16A) Ca ²⁺ -activated chloride channel stoichiometrically interacts with an ezrin-radixin-moesin network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10376-81	11.5	96
62	An MBoC Favorite: Axonal membrane proteins are transported in distinct carriers: a two-color video microscopy study in cultured hippocampal neurons. <i>Molecular Biology of the Cell</i> , 2012 , 23, 2015-2015	3.5	78
61	A comprehensive strategy to identify stoichiometric membrane protein interactomes. <i>Cellular Logistics</i> , 2012 , 2, 189-196		7
60	Quantitative proteomic and genetic analyses of the schizophrenia susceptibility factor dysbindin identify novel roles of the biogenesis of lysosome-related organelles complex 1. <i>Journal of Neuroscience</i> , 2012 , 32, 3697-711	6.6	74
59	p120-catenin binding masks an endocytic signal conserved in classical cadherins. <i>Journal of Cell Biology</i> , 2012 , 199, 365-80	7.3	141

58	On the endosomal function and gene nomenclature of human SPE-39. <i>Nature Genetics</i> , 2011 , 43, 176	36.3	3
57	Cell biology of the BLOC-1 complex subunit dysbindin, a schizophrenia susceptibility gene. <i>Molecular Neurobiology</i> , 2011 , 44, 53-64	6.2	55
56	Tissue nonspecific alkaline phosphatase is activated via a two-step mechanism by zinc transport complexes in the early secretory pathway. <i>Journal of Biological Chemistry</i> , 2011 , 286, 16363-73	5.4	49
55	Metazoan cell biology of the HOPS tethering complex. <i>Cellular Logistics</i> , 2011 , 1, 111-117		14
54	The schizophrenia susceptibility factor dysbindin and its associated complex sort cargoes from cell bodies to the synapse. <i>Molecular Biology of the Cell</i> , 2011 , 22, 4854-67	3.5	55
53	Clathrin-dependent mechanisms modulate the subcellular distribution of class C Vps/HOPS tether subunits in polarized and nonpolarized cells. <i>Molecular Biology of the Cell</i> , 2011 , 22, 1699-715	3.5	22
52	Hermansky-Pudlak protein complexes, AP-3 and BLOC-1, differentially regulate presynaptic composition in the striatum and hippocampus. <i>Journal of Neuroscience</i> , 2010 , 30, 820-31	6.6	45
51	A biochemical and functional protein complex involving dopamine synthesis and transport into synaptic vesicles. <i>Journal of Biological Chemistry</i> , 2010 , 285, 1957-66	5.4	82
50	An AP-3-dependent mechanism drives synaptic-like microvesicle biogenesis in pancreatic islet beta-cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010 , 299, E23-32	6	10
49	Isolation of labile multi-protein complexes by in vivo controlled cellular cross-linking and immuno-magnetic affinity chromatography. <i>Journal of Visualized Experiments</i> , 2010 ,	1.6	23
48	Endosomal recycling regulates Anthrax Toxin Receptor 1/Tumor Endothelial Marker 8-dependent cell spreading. <i>Experimental Cell Research</i> , 2010 , 316, 1946-57	4.2	14
47	Hermansky-Pudlak syndrome protein complexes associate with phosphatidylinositol 4-kinase type II alpha in neuronal and non-neuronal cells. <i>Journal of Biological Chemistry</i> , 2009 , 284, 1790-802	5.4	76
46	SPE-39 family proteins interact with the HOPS complex and function in lysosomal delivery. <i>Molecular Biology of the Cell</i> , 2009 , 20, 1223-40	3.5	53
45	Schizophrenia: the "BLOC" may be in the endosomes. <i>Science Signaling</i> , 2009 , 2, pe66	8.8	34
44	Roles of BLOC-1 and adaptor protein-3 complexes in cargo sorting to synaptic vesicles. <i>Molecular Biology of the Cell</i> , 2009 , 20, 1441-53	3.5	76
43	p120-catenin inhibits VE-cadherin internalization through a Rho-independent mechanism. <i>Molecular Biology of the Cell</i> , 2009 , 20, 1970-80	3.5	75
42	SLC30A3 (ZnT3) oligomerization by dityrosine bonds regulates its subcellular localization and metal transport capacity. <i>PLoS ONE</i> , 2009 , 4, e5896	3.7	42
41	Mint3/X11gamma is an ADP-ribosylation factor-dependent adaptor that regulates the traffic of the Alzheimer's Precursor protein from the trans-Golgi network. <i>Molecular Biology of the Cell</i> , 2008 , 19, 51-64	3.5	49

40	Pemphigus vulgaris IgG-induced desmoglein-3 endocytosis and desmosomal disassembly are mediated by a clathrin- and dynamin-independent mechanism. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18303-13	5.4	97
39	Phosphatidylinositol-4-kinase type II alpha contains an AP-3-sorting motif and a kinase domain that are both required for endosome traffic. <i>Molecular Biology of the Cell</i> , 2008 , 19, 1415-26	3.5	103
38	Neuronal and non-neuronal functions of the AP-3 sorting machinery. <i>Journal of Cell Science</i> , 2007 , 120, 531-41	5.3	102
37	The subcellular localization of the Niemann-Pick Type C proteins depends on the adaptor complex AP-3. <i>Journal of Cell Science</i> , 2007 , 120, 3640-52	5.3	27
36	BLOC-1 complex deficiency alters the targeting of adaptor protein complex-3 cargoes. <i>Molecular Biology of the Cell</i> , 2006 , 17, 4014-26	3.5	100
35	Anthrax toxin receptor 1/tumor endothelium marker 8 mediates cell spreading by coupling extracellular ligands to the actin cytoskeleton. <i>Journal of Biological Chemistry</i> , 2006 , 281, 23227-36	5.4	63
34	Architecture of the vimentin cytoskeleton is modified by perturbation of the GTPase ARF1. <i>Journal of Cell Science</i> , 2006 , 119, 3643-54	5.3	16
33	A mutation of beta -actin that alters depolymerization dynamics is associated with autosomal dominant developmental malformations, deafness, and dystonia. <i>American Journal of Human Genetics</i> , 2006 , 78, 947-60	11	87
32	Vglut1 and ZnT3 co-targeting mechanisms regulate vesicular zinc stores in PC12 cells. <i>Journal of Cell Science</i> , 2005 , 118, 1911-21	5.3	76
31	Intermediate filaments and vesicular membrane traffic: the odd couple's first dance?. <i>Traffic</i> , 2005 , 6, 359-65	5.7	71
30	Neuronal zinc stores are modulated by non-steroidal anti-inflammatory drugs: an optical analysis in cultured hippocampal neurons. <i>Brain Research</i> , 2005 , 1061, 1-12	3.7	10
29	Phosphatidylinositol-4-kinase type II alpha is a component of adaptor protein-3-derived vesicles. <i>Molecular Biology of the Cell</i> , 2005 , 16, 3692-704	3.5	95
28	Saccharomyces cerevisiae Npc2p is a functionally conserved homologue of the human Niemann-Pick disease type C 2 protein, hNPC2. <i>Eukaryotic Cell</i> , 2005 , 4, 1851-62		35
27	p120-Catenin regulates clathrin-dependent endocytosis of VE-cadherin. <i>Molecular Biology of the Cell</i> , 2005 , 16, 5141-51	3.5	210
26	Genetic analysis of the neuronal and ubiquitous AP-3 adaptor complexes reveals divergent functions in brain. <i>Molecular Biology of the Cell</i> , 2005 , 16, 128-40	3.5	65
25	Intracellular chloride channels: determinants of function in the endosomal pathway. <i>Science Signaling</i> , 2004 , 2004, re8	8.8	57
24	The zinc transporter ZnT3 interacts with AP-3 and it is preferentially targeted to a distinct synaptic vesicle subpopulation. <i>Molecular Biology of the Cell</i> , 2004 , 15, 575-87	3.5	94
23	AP-3-dependent mechanisms control the targeting of a chloride channel (CLC-3) in neuronal and non-neuronal cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25430-9	5.4	95

22	The endo-lysosomal sorting machinery interacts with the intermediate filament cytoskeleton. <i>Molecular Biology of the Cell</i> , 2004 , 15, 5369-82	3.5	119
21	Isolation of synaptic vesicles. <i>Current Protocols in Cell Biology</i> , 2004 , Chapter 3, Unit 3.12	2.3	5
20	Heterotetrameric Coat Protein-Arf Interactions 2004 , 259-281		
19	Teaching resources. Chloride concentration and pH along the endosomal pathway. <i>Sciencels STKE: Signal Transduction Knowledge Environment</i> , 2004 , 2004, tr2		
18	Cellular levels of p120 catenin function as a set point for cadherin expression levels in microvascular endothelial cells. <i>Journal of Cell Biology</i> , 2003 , 163, 535-45	7.3	344
17	Mechanisms of VE-cadherin processing and degradation in microvascular endothelial cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 19199-208	5.4	121
16	The neuronal form of adaptor protein-3 is required for synaptic vesicle formation from endosomes. <i>Journal of Neuroscience</i> , 2001 , 21, 8034-42	6.6	73
15	Beta 2-adrenergic receptor endocytic pathway is controlled by a saturable mechanism distinct from that of transferrin receptor. <i>Receptors and Channels</i> , 1999 , 6, 255-69		4
14	A v-SNARE participates in synaptic vesicle formation mediated by the AP3 adaptor complex. <i>Nature Neuroscience</i> , 1998 , 1, 551-6	25.5	84
13	A function for the AP3 coat complex in synaptic vesicle formation from endosomes. <i>Cell</i> , 1998 , 93, 423-33	36.2	259
12	Reconstitution of synaptic vesicle biogenesis from PC12 cell membranes. <i>Methods</i> , 1998 , 16, 150-9	4.6	49
11	Vesiculation and sorting from PC12-derived endosomes in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 11223-8	11.5	53
10	Neuroendocrine synaptic vesicles are formed in vitro by both clathrin-dependent and clathrin-independent pathways. <i>Journal of Cell Biology</i> , 1998 , 143, 947-55	7.3	89
9	ADP ribosylation factor 1 is required for synaptic vesicle budding in PC12 cells. <i>Journal of Cell Biology</i> , 1997 , 138, 505-15	7.3	92
8	Ciprofibrate, a carcinogenic peroxisome proliferator, increases the phosphorylation of epidermal-growth-factor receptor in isolated rat hepatocytes. <i>FEBS Journal</i> , 1993 , 215, 903-6		28
7	Epidermal growth factor receptor in synaptic fractions of the rat central nervous system. <i>Journal of Biological Chemistry</i> , 1992 , 267, 20363-70	5.4	27
6	Epidermal growth factor receptor in synaptic fractions of the rat central nervous system.. <i>Journal of Biological Chemistry</i> , 1992 , 267, 20363-20370	5.4	26
5	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. <i>European Journal of Neuroscience</i> , 1991 , 3, 1123-1133	3.5	20

4	Calibers and microtubules of nerve fibers: differential effect of undernutrition in developing and adult rats. <i>Brain Research</i> , 1990 , 509, 198-204	3-7	8
3	Microtubules and calibers in developing axons. <i>Journal of Comparative Neurology</i> , 1986 , 250, 73-80	3-4	20
2	Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior		4
1	Molecular Genetics of Menkes Disease1-6		