

# Bruno Antonyy

## List of Publications by Year in descending order

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100  
papers

12,443  
citations

36203

51  
h-index

38300

95  
g-index

117  
all docs

117  
docs citations

117  
times ranked

11118  
citing authors

#	ARTICLE	IF	CITATIONS
1	HELIQUEST: a web server to screen sequences with specific $\hat{\pm}$ -helical properties. <i>Bioinformatics</i> , 2008, 24, 2101-2102.	1.8	928
2	A Four-Step Cycle Driven by PI(4)P Hydrolysis Directs Sterol/PI(4)P Exchange by the ER-Golgi Tether OSBP. <i>Cell</i> , 2013, 155, 830-843.	13.5	623
3	A general amphipathic $\hat{\pm}$ -helical motif for sensing membrane curvature. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 138-146.	3.6	526
4	Amphipathic helices and membrane curvature. <i>FEBS Letters</i> , 2010, 584, 1840-1847.	1.3	482
5	A human exchange factor for ARF contains Sec7- and pleckstrin-homology domains. <i>Nature</i> , 1996, 384, 481-484.	13.7	468
6	Curvature, Lipid Packing, and Electrostatics of Membrane Organelles: Defining Cellular Territories in Determining Specificity. <i>Developmental Cell</i> , 2012, 23, 886-895.	3.1	434
7	Brefeldin A Acts to Stabilize an Abortive ARF-GDP/Sec7 Domain Protein Complex. <i>Molecular Cell</i> , 1999, 3, 275-285.	4.5	421
8	Membrane fission by dynamin: what we know and what we need to know. <i>EMBO Journal</i> , 2016, 35, 2270-2284.	3.5	388
9	Mechanisms of Membrane Curvature Sensing. <i>Annual Review of Biochemistry</i> , 2011, 80, 101-123.	5.0	384
10	ArfGAP1 responds to membrane curvature through the folding of a lipid packing sensor motif. <i>EMBO Journal</i> , 2005, 24, 2244-2253.	3.5	346
11	Osh4p exchanges sterols for phosphatidylinositol 4-phosphate between lipid bilayers. <i>Journal of Cell Biology</i> , 2011, 195, 965-978.	2.3	343
12	N-Terminal Hydrophobic Residues of the G-Protein ADP-Ribosylation Factor-1 Insert into Membrane Phospholipids upon GDP to GTP Exchange. <i>Biochemistry</i> , 1997, 36, 4675-4684.	1.2	327
13	Lipid packing sensed by ArfGAP1 couples COPI coat disassembly to membrane bilayer curvature. <i>Nature</i> , 2003, 426, 563-566.	13.7	301
14	Homeoviscous Adaptation and the Regulation of Membrane Lipids. <i>Journal of Molecular Biology</i> , 2016, 428, 4776-4791.	2.0	301
15	Polyunsaturated phospholipids facilitate membrane deformation and fission by endocytic proteins. <i>Science</i> , 2014, 345, 693-697.	6.0	291
16	Dynamics of the COPII coat with GTP and stable analogues. <i>Nature Cell Biology</i> , 2001, 3, 531-537.	4.6	270
17	Cargo selection into COPII vesicles is driven by the Sec24p subunit. <i>EMBO Journal</i> , 2002, 21, 6105-6113.	3.5	246
18	A sub-nanometre view of how membrane curvature and composition modulate lipid packing and protein recruitment. <i>Nature Communications</i> , 2014, 5, 4916.	5.8	230

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19	Lipidation of the LC3/GABARAP family of autophagy proteins relies on a membrane-curvature-sensing domain in Atg3. <i>Nature Cell Biology</i> , 2014, 16, 415-424.	4.6	221
20	Ras, Rap, and Rac Small GTP-binding Proteins Are Targets for <i>Clostridium sordellii</i> Lethal Toxin Glucosylation. <i>Journal of Biological Chemistry</i> , 1996, 271, 10217-10224.	1.6	202
21	ER export: public transportation by the COPII coach. <i>Current Opinion in Cell Biology</i> , 2001, 13, 438-443.	2.6	188
22	Structure of the Sec7 domain of the Arf exchange factor ARNO. <i>Nature</i> , 1998, 392, 101-105.	13.7	181
23	Sterol transfer, PI 4P consumption, and control of membrane lipid order by endogenous OSBP. <i>EMBO Journal</i> , 2017, 36, 3156-3174.	3.5	180
24	±-Synuclein and ALPS motifs are membrane curvature sensors whose contrasting chemistry mediates selective vesicle binding. <i>Journal of Cell Biology</i> , 2011, 194, 89-103.	2.3	177
25	Amphipathic Lipid Packing Sensor Motifs: Probing Bilayer Defects with Hydrophobic Residues. <i>Biophysical Journal</i> , 2013, 104, 575-584.	0.2	171
26	From zero to six double bonds: phospholipid unsaturation and organelle function. <i>Trends in Cell Biology</i> , 2015, 25, 427-436.	3.6	168
27	Asymmetric Tethering of Flat and Curved Lipid Membranes by a Golgin. <i>Science</i> , 2008, 320, 670-673.	6.0	167
28	A phosphatidylinositol-4-phosphate powered exchange mechanism to create a lipid gradient between membranes. <i>Nature Communications</i> , 2015, 6, 6671.	5.8	166
29	Membrane Protein Structure, Function, and Dynamics: a Perspective from Experiments and Theory. <i>Journal of Membrane Biology</i> , 2015, 248, 611-640.	1.0	157
30	Role of Protein-Phospholipid Interactions in the Activation of ARF1 by the Guanine Nucleotide Exchange Factor Arno. <i>Journal of Biological Chemistry</i> , 1997, 272, 22221-22226.	1.6	155
31	Activation of ADP-ribosylation Factor 1 GTPase-Activating Protein by Phosphatidylcholine-derived Diacylglycerols. <i>Journal of Biological Chemistry</i> , 1997, 272, 30848-30851.	1.6	151
32	Conical Lipids in Flat Bilayers Induce Packing Defects Similar to that Induced by Positive Curvature. <i>Biophysical Journal</i> , 2013, 104, 585-593.	0.2	149
33	COPI buds 60-nm lipid droplets from reconstituted water-phospholipid-triacylglyceride interfaces, suggesting a tension clamp function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13244-13249.	3.3	146
34	Membrane deformation by protein coats. <i>Current Opinion in Cell Biology</i> , 2006, 18, 386-394.	2.6	137
35	The Many Faces of Amphipathic Helices. <i>Biomolecules</i> , 2018, 8, 45.	1.8	135
36	GTP hydrolysis by purified .alpha.-subunit of transducin and its complex with the cyclic GMP phosphodiesterase inhibitor. <i>Biochemistry</i> , 1993, 32, 8646-8653.	1.2	133

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37	The Oxysterol-Binding Protein Cycle: Burning Off PI(4)P to Transport Cholesterol. <i>Annual Review of Biochemistry</i> , 2018, 87, 809-837.	5.0	115
38	Two Lipid-Packing Sensor Motifs Contribute to the Sensitivity of ArfGAP1 to Membrane Curvature. <i>Biochemistry</i> , 2007, 46, 1779-1790.	1.2	114
39	Acyl chain asymmetry and polyunsaturation of brain phospholipids facilitate membrane vesiculation without leakage. <i>ELife</i> , 2018, 7, .	2.8	111
40	The apparent cooperativity of some GPCRs does not necessarily imply dimerization. <i>Trends in Pharmacological Sciences</i> , 2009, 30, 182-187.	4.0	103
41	COPI coat assembly occurs on liquid-disordered domains and the associated membrane deformations are limited by membrane tension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16946-16951.	3.3	92
42	Lipid unsaturation and organelle dynamics. <i>Current Opinion in Cell Biology</i> , 2016, 41, 25-32.	2.6	90
43	A giant amphipathic helix from a perilipin that is adapted for coating lipid droplets. <i>Nature Communications</i> , 2018, 9, 1332.	5.8	89
44	Interaction between the retinal cyclic GMP phosphodiesterase inhibitor and transducin. Kinetics and affinity studies. <i>Biochemistry</i> , 1993, 32, 8636-8645.	1.2	87
45	Dissociation of GDP Dissociation Inhibitor and Membrane Translocation Are Required for Efficient Activation of Rac by the Dbl Homology-Pleckstrin Homology Region of Tiam. <i>Journal of Biological Chemistry</i> , 2003, 278, 4756-4762.	1.6	70
46	Kinetic Studies of the Arf Activator Arno on Model Membranes in the Presence of Arf Effectors Suggest Control by a Positive Feedback Loop. <i>Journal of Biological Chemistry</i> , 2011, 286, 3873-3883.	1.6	70
47	Insights into the mechanisms of sterol transport between organelles. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 3405-3421.	2.4	70
48	ArfGAP1 generates an Arf1 gradient on continuous lipid membranes displaying flat and curved regions. <i>EMBO Journal</i> , 2010, 29, 292-303.	3.5	66
49	Dual Interaction of ADP Ribosylation Factor 1 with Sec7 Domain and with Lipid Membranes during Catalysis of Guanine Nucleotide Exchange. <i>Journal of Biological Chemistry</i> , 1999, 274, 37629-37636.	1.6	63
50	PackMem: A Versatile Tool to Compute and Visualize Interfacial Packing Defects in Lipid Bilayers. <i>Biophysical Journal</i> , 2018, 115, 436-444.	0.2	57
51	A filter at the entrance of the Golgi that selects vesicles according to size and bulk lipid composition. <i>ELife</i> , 2016, 5, .	2.8	57
52	Self-assembly of minimal COPII cages. <i>EMBO Reports</i> , 2003, 4, 419-424.	2.0	55
53	The counterflow transport of sterols and PI4P. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 940-951.	1.2	55
54	Interaction of the Spo20 Membrane-Sensor Motif with Phosphatidic Acid and Other Anionic Lipids, and Influence of the Membrane Environment. <i>PLoS ONE</i> , 2014, 9, e113484.	1.1	54

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55	GTP hydrolysis mechanisms in ras p21 and in the ras-GAP complex studied by fluorescence measurements on tryptophan mutants. <i>Biochemistry</i> , 1991, 30, 8287-8295.	1.2	53
56	Discrete Determinants in ArfGAP2/3 Conferring Golgi Localization and Regulation by the COPI Coat. <i>Molecular Biology of the Cell</i> , 2009, 20, 859-869.	0.9	50
57	An Intrinsically Disordered Region in OSBP Acts as an Entropic Barrier to Control Protein Dynamics and Orientation at Membrane Contact Sites. <i>Developmental Cell</i> , 2019, 49, 220-234.e8.	3.1	50
58	A Phosphatidylserine-binding Site in the Cytosolic Fragment of Clostridium sordellii Lethal Toxin Facilitates Glucosylation of Membrane-bound Rac and Is Required for Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2004, 279, 49876-49882.	1.6	46
59	Membrane bending: the power of protein imbalance. <i>Trends in Biochemical Sciences</i> , 2013, 38, 576-584.	3.7	46
60	Membrane Curvature Sensing by Amphipathic Helices Is Modulated by the Surrounding Protein Backbone. <i>PLoS ONE</i> , 2015, 10, e0137965.	1.1	40
61	A novel magnesium-dependent mechanism for the activation of transducin by fluoride. <i>FEBS Letters</i> , 1990, 268, 277-280.	1.3	38
62	A Novel Membrane Sensor Controls the Localization and ArfGEF Activity of Bacterial RalF. <i>PLoS Pathogens</i> , 2013, 9, e1003747.	2.1	33
63	Arf GTPase regulation through cascade mechanisms and positive feedback loops. <i>FEBS Letters</i> , 2013, 587, 2028-2035.	1.3	31
64	Real-time Assays for the Assembly/Disassembly Cycle of COP Coats on Liposomes of Defined Size. <i>Methods in Enzymology</i> , 2005, 404, 95-107.	0.4	30
65	Nanoscale architecture of a VAP-A-OSBP tethering complex at membrane contact sites. <i>Nature Communications</i> , 2021, 12, 3459.	5.8	29
66	The transbilayer distribution of polyunsaturated phospholipids determines their facilitating effect on membrane deformation. <i>Soft Matter</i> , 2020, 16, 1722-1730.	1.2	27
67	Modulation of the GTPase Activity of Transducin. <i>Kinetic Studies of Reconstituted Systems. Biochemistry</i> , 1994, 33, 15215-15222.	1.2	24
68	Molecular and cellular dissection of the oxysterol-binding protein cycle through a fluorescent inhibitor. <i>Journal of Biological Chemistry</i> , 2020, 295, 4277-4288.	1.6	24
69	The Long and Short of Membrane Fission. <i>Cell</i> , 2008, 135, 1163-1165.	13.5	23
70	Exceptional stability of a perilipin on lipid droplets depends on its polar residues, suggesting multimeric assembly. <i>ELife</i> , 2021, 10, .	2.8	21
71	Building lipid $\beta$ -PIPElines <sup>TM</sup> throughout the cell by ORP/Osh proteins. <i>Biochemical Society Transactions</i> , 2014, 42, 1465-1470.	1.6	17
72	A comprehensive library of fluorescent constructs of SARS-CoV-2 proteins and their initial characterisation in different cell types. <i>Biology of the Cell</i> , 2021, 113, 311-328.	0.7	17

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73	Arf1 and Membrane Curvature Cooperate to Recruit Arfaptin2 to Liposomes. PLoS ONE, 2013, 8, e62963.	1.1	15
74	SNARE Filtering by Dynamin. Cell, 2004, 119, 581-582.	13.5	14
75	Helices sculpt membrane. Nature, 2005, 437, 1247-1248.	13.7	9
76	In Vitro Assays to Characterize Inhibitors of the Activation of Small G Proteins by Their Guanine Nucleotide Exchange Factors. Methods in Enzymology, 2008, 438, 41-56.	0.4	8
77	PIP2: activator...or terminator of small G proteins?. Trends in Biochemical Sciences, 1998, 23, 98-99.	3.7	7
78	Vitamin Currency in a Lipid Exchange Market. Science, 2013, 340, 1051-1052.	6.0	7
79	Liposomes in the Study of GDPâ&GAMP Cycle of Arf and Related Small G Proteins. Methods in Enzymology, 2003, 372, 151-166.	0.4	6
80	Detached membrane bending. Nature, 2009, 458, 159-160.	13.7	6
81	Intrinsically disordered protein regions at membrane contact sites. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 159020.	1.2	6
82	GTP-dependent binding of Gi, Go and G12 to the Î³-subunit of the effector of Gq. FEBS Letters, 1994, 343, 183-187.	1.3	5
83	Targeting surface voids to counter membrane disorders in lipointoxication-related diseases. Journal of Cell Science, 2016, 129, 2368-81.	1.2	5
84	Tumor protein D54 binds intracellular nanovesicles via an extended amphipathic region. Journal of Biological Chemistry, 2022, 298, 102136.	1.6	5
85	CCTÎ± Commands Phospholipid Homeostasis from the Nucleus. Developmental Cell, 2018, 45, 419-420.	3.1	4
86	DHA-containing phospholipids control membrane fusion and transcellular tunnel dynamics. Journal of Cell Science, 2022, 135, .	1.2	4
87	ContrÃ©le de lâ€™assemblage des manteaux protÃ©iques COP par les petites protÃ©ines G Arf et Sar. Medecine/Sciences, 2002, 18, 1012-1016.	0.0	3
88	How Legionella diverts host small GTPases: structural and biochemical studies. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s313-s313.	0.3	3
89	Directing Traffic into the Future. Developmental Cell, 2013, 27, 480-484.	3.1	2
90	The G Protein Cascade of Visual Transduction: Kinetics and Regulation. Novartis Foundation Symposium, 1993, 176, 112-127.	1.2	2

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91	COPI Coat Assembly Occurs on Liquid Disordered Domains and the Associated Membrane Deformations are Limited by Membrane Tension. <i>Biophysical Journal</i> , 2009, 96, 549a-550a.	0.2	1
92	Molecular Dynamics Study of a Protein Motif that Senses Packing Defects Induced by Membrane Curvature. <i>Biophysical Journal</i> , 2013, 104, 662a.	0.2	1
93	GEF and Glucosylation Assays on Liposome-Bound Rac. <i>Methods in Enzymology</i> , 2006, 406, 70-80.	0.4	0
94	Control of Membrane Remodeling at the Golgi Through Sensors of Membrane Curvature: The ALPS Motif. <i>Biophysical Journal</i> , 2009, 96, 2a.	0.2	0
95	Targeting Cellular Organelles by Amphipathic Helices: Taking Advantage of Membrane Biophysics. <i>Biophysical Journal</i> , 2013, 104, 372a-373a.	0.2	0
96	The Lipidation Machinery Involved in Autophagosome Growth is Only Functional on Highly Curved Membranes. <i>Biophysical Journal</i> , 2013, 104, 97a.	0.2	0
97	Structural Basis of Lipid Exchange in the Oxysterol-Binding Protein Homologue (OSH) Family. <i>Biophysical Journal</i> , 2014, 106, 99a.	0.2	0
98	Editorial overview: Cell organelles. <i>Current Opinion in Cell Biology</i> , 2017, 47, iv-vi.	2.6	0
99	Specific Coating of Cellular Lipid Droplets by a Giant and Repetitive Amphipathic Helix. <i>Biophysical Journal</i> , 2018, 114, 276a.	0.2	0
100	The Transducin Cycle in the Phototransduction Cascade. , 1991, , 207-220.		0