Robert G Parton

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.

409 papers	50,506 citations	127 h-index	215 g-index
541 ext. papers	56,126 ext. citations	9.8 avg, IF	7.65 L-index

#	Paper	IF	Citations
409	The structure of caveolin finally takes shape.. *Science Advances*, **2022**, 8, eabq6985	14.3	0
408	Epithelial Mechanosensing at Cell-Cell Contacts and Tight Junctions **2022**, 27-50		0
407	ContactJ: Lipid droplets-mitochondria contacts characterization through fluorescence microscopy and image analysis.. *F1000Research*, **2021**, 10, 263	3.6	1
406	De novo macrocyclic peptides for inhibiting, stabilizing, and probing the function of the retromer endosomal trafficking complex. *Science Advances*, **2021**, 7, eabg4007	14.3	1
405	An anaplerotic approach to correct the mitochondrial dysfunction in ataxia-telangiectasia (A-T). *Molecular Metabolism*, **2021**, 54, 101354	8.8	1
404	Cavin4 interacts with Bin1 to promote T-tubule formation and stability in developing skeletal muscle. *Journal of Cell Biology*, **2021**, 220,	7.3	3
403	Cargo-specific recruitment in clathrin- and dynamin-independent endocytosis. *Nature Cell Biology*, **2021**, 23, 1073-1084	23.4	10
402	Ryanodine receptor leak triggers fiber Ca redistribution to preserve force and elevate basal metabolism in skeletal muscle. *Science Advances*, **2021**, 7, eabi7166	14.3	2
401	An inverted CAV1 (caveolin 1) topology defines novel autophagy-dependent exosome secretion from prostate cancer cells. *Autophagy*, **2021**, 17, 2200-2216	10.2	7
400	Key principles and methods for studying the endocytosis of biological and nanoparticle therapeutics. *Nature Nanotechnology*, **2021**, 16, 266-276	28.7	103
399	Mechanotransduction activates RhoA in the neighbors of apoptotic epithelial cells to engage apical extrusion. *Current Biology*, **2021**, 31, 1326-1336.e5	6.3	16
398	High intraluminal pressure promotes vascular inflammation via caveolin-1. *Scientific Reports*, **2021**, 11, 5894	4.9	2
397	A robust method for particulate detection of a genetic tag for 3D electron microscopy. *ELife*, **2021**, 10,	8.9	8
396	Caveolin-1-driven membrane remodelling regulates hnRNPK-mediated exosomal microRNA sorting in cancer. *Clinical and Translational Medicine*, **2021**, 11, e381	5.7	6
395	Author response: A robust method for particulate detection of a genetic tag for 3D electron microscopy **2021**,		2
394	Nicotinamide riboside attenuates age-associated metabolic and functional changes in hematopoietic stem cells. *Nature Communications*, **2021**, 12, 2665	17.4	7
393	Nanoscape, a data-driven 3D real-time interactive virtual cell environment. *ELife*, **2021**, 10,	8.9	4

392	Lipid droplets and the host-pathogen dynamic: FATal attraction?. *Journal of Cell Biology*, **2021**, 220,	7.3	4
391	Cavin3 released from caveolae interacts with BRCA1 to regulate the cellular stress response. *ELife*, **2021**, 10,	8.9	2
390	Growth Hormone Stops Excessive Inflammation After Partial Hepatectomy, Allowing Liver Regeneration and Survival Through Induction of H2-Bl/HLA-G. *Hepatology*, **2021**, 73, 759-775	11.2	13
389	Caveolin-1 influences epithelial collective cell migration via FMNL2 formin. *Biology of the Cell*, **2021**, 113, 107-117	3.5	1
388	Formation of retromer transport carriers is disrupted by the Parkinson disease-linked Vps35 D620N variant. *Traffic*, **2021**, 22, 123-136	5.7	7
387	Phosphorylation of PKCI by FER tips the balance from EGFR degradation to recycling. *Journal of Cell Biology*, **2021**, 220,	7.3	5
386	Proximity Dependent Biotin Labelling in Zebrafish for Proteome and Interactome Profiling. *Bio-protocol*, **2021**, 11, e4178	0.9	0
385	Caveolin-1 and cavin1 act synergistically to generate a unique lipid environment in caveolae. *Journal of Cell Biology*, **2021**, 220,	7.3	8
384	Inner retinal injury in experimental glaucoma is prevented upon AAV mediated Shp2 silencing in a caveolin dependent manner. *Theranostics*, **2021**, 11, 6154-6172	12.1	1
383	Cavin1 intrinsically disordered domains are essential for fuzzy electrostatic interactions and caveola formation. *Nature Communications*, **2021**, 12, 931	17.4	6
382	In vivo proteomic mapping through GFP-directed proximity-dependent biotin labelling in zebrafish. *ELife*, **2021**, 10,	8.9	13
381	Key phases in the formation of caveolae. *Current Opinion in Cell Biology*, **2021**, 71, 7-14	9	11
380	Impaired endoplasmic reticulum-mitochondrial signaling in ataxia-telangiectasia. *IScience*, **2021**, 24, 101972	6.2	5
379	Frontline Science: LPS-inducible SLC30A1 drives human macrophage-mediated zinc toxicity against intracellular Escherichia coli. *Journal of Leukocyte Biology*, **2021**, 109, 287-297	6.5	5
378	Loss of YhcB results in dysregulation of coordinated peptidoglycan, LPS and phospholipid synthesis during Escherichia coli cell growth.. *PLoS Genetics*, **2021**, 17, e1009586	6	0
377	Caveolae Control Contractile Tension for Epithelia to Eliminate Tumor Cells. *Developmental Cell*, **2020**, 54, 75-91.e7	10.2	24
376	Non-caveolar caveolins - duties outside the caves. *Journal of Cell Science*, **2020**, 133,	5.3	17
375	Caveolin-1 Ablation Imparts Partial Protection Against Inner Retinal Injury in Experimental Glaucoma and Reduces Apoptotic Activation. *Molecular Neurobiology*, **2020**, 57, 3759-3784	6.2	7

374	Caveolae: Formation, dynamics, and function. *Current Opinion in Cell Biology*, **2020**, 65, 8-16	9	40
373	Lipid droplets, bioenergetic fluxes, and metabolic flexibility. *Seminars in Cell and Developmental Biology*, **2020**, 108, 33-46	7.5	14
372	Endocytosis Inhibition in Humans to Improve Responses to ADCC-Mediating Antibodies. *Cell*, **2020**, 180, 895-914.e27	56.2	45
371	A role for caveola-forming proteins caveolin-1 and CAVIN1 in the pro-invasive response of glioblastoma to osmotic and hydrostatic pressure. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 3724-3738	5.6	5
370	Mapping Interactions among Cell-Free Expressed Zika Virus Proteins. *Journal of Proteome Research*, **2020**, 19, 1522-1532	5.6	3
369	Caveolae and lipid sorting: Shaping the cellular response to stress. *Journal of Cell Biology*, **2020**, 219,	7.3	21
368	Ascidian caveolin induces membrane curvature and protects tissue integrity and morphology during embryogenesis. *FASEB Journal*, **2020**, 34, 1345-1361	0.9	15
367	Role for caveolin-mediated transcytosis in facilitating transport of large cargoes into the brain via ultrasound. *Journal of Controlled Release*, **2020**, 327, 667-675	11.7	13
366	Mammalian lipid droplets are innate immune hubs integrating cell metabolism and host defense. *Science*, **2020**, 370,	33.3	82
365	Modular transient nanoclustering of activated β-adrenergic receptors revealed by single-molecule tracking of conformation-specific nanobodies. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 30476-30487	11.5	7
364	In vivo cell biological screening identifies an endocytic capture mechanism for T-tubule formation. *Nature Communications*, **2020**, 11, 3711	17.4	10
363	ORP5 localizes to ER-lipid droplet contacts and regulates the level of PI(4)P on lipid droplets. *Journal of Cell Biology*, **2020**, 219,	7.3	41
362	Src kinases relax adherens junctions between the neighbors of apoptotic cells to permit apical extrusion. *Molecular Biology of the Cell*, **2020**, 31, 2557-2569	3.5	12
361	Twenty years of traffic: A 2020 vision of cellular electron microscopy. *Traffic*, **2020**, 21, 156-161	5.7	2
360	Caveolae: The FAQs. *Traffic*, **2020**, 21, 181-185	5.7	34
359	Reactivation of Myc transcription in the mouse heart unlocks its proliferative capacity. *Nature Communications*, **2020**, 11, 1827	17.4	17
358	Live Confocal Imaging of Zebrafish Notochord Cells Under Mechanical Stress In Vivo. *Methods in Molecular Biology*, **2020**, 2169, 175-187	1.4	0
357	Faceted polymersomes: a sphere-to-polyhedron shape transformation. *Chemical Science*, **2019**, 10, 2725-2731	9.4	19

356	Drug-induced increase in lysobisphosphatidic acid reduces the cholesterol overload in Niemann-Pick type C cells and mice. *EMBO Reports*, **2019**, 20, e47055	6.5	18
355	Correlation of the invasive potential of glioblastoma and expression of caveola-forming proteins caveolin-1 and CAVIN1. *Journal of Neuro-Oncology*, **2019**, 143, 207-220	4.8	5
354	Myosin Vb is required for correct trafficking of N-cadherin and cardiac chamber ballooning. *Developmental Dynamics*, **2019**, 248, 284-295	2.9	1
353	Identification of intracellular cavin target proteins reveals cavin-PP1alpha interactions regulate apoptosis. *Nature Communications*, **2019**, 10, 3279	17.4	29
352	The membrane environment of cadherin adhesion receptors: a working hypothesis. *Biochemical Society Transactions*, **2019**, 47, 985-995	5.1	6
351	Colocation of Tpm3.1 and myosin IIa heads defines a discrete subdomain in stress fibres. *Journal of Cell Science*, **2019**, 132,	5.3	7
350	An Abl-FBP17 mechanosensing system couples local plasma membrane curvature and stress fiber remodeling during mechanoadaptation. *Nature Communications*, **2019**, 10, 5828	17.4	27
349	Retromer has a selective function in cargo sorting via endosome transport carriers. *Journal of Cell Biology*, **2019**, 218, 615-631	7.3	69
348	ORP2 Delivers Cholesterol to the Plasma Membrane in Exchange for Phosphatidylinositol 4, 5-Bisphosphate (PI(4,5)P). *Molecular Cell*, **2019**, 73, 458-473.e7	17.6	89
347	Membrane Curvature and Tension Control the Formation and Collapse of Caveolar Superstructures. *Developmental Cell*, **2019**, 48, 523-538.e4	10.2	35
346	Development of a human skeletal micro muscle platform with pacing capabilities. *Biomaterials*, **2019**, 198, 217-227	15.6	19
345	Caveolae. *Current Biology*, **2018**, 28, R402-R405	6.3	58
344	Rab18 promotes lipid droplet (LD) growth by tethering the ER to LDs through SNARE and NRZ interactions. *Journal of Cell Biology*, **2018**, 217, 975-995	7.3	102
343	Cell-free formation and interactome analysis of caveolae. *Journal of Cell Biology*, **2018**, 217, 2141-2165	7.3	33
342	A variable undecad repeat domain in cavin1 regulates caveola formation and stability. *EMBO Reports*, **2018**, 19,	6.5	12
341	Small GTPases and BAR domain proteins regulate branched actin polymerisation for clathrin and dynamin-independent endocytosis. *Nature Communications*, **2018**, 9, 1835	17.4	47
340	Journey to the centre of the cell: Virtual reality immersion into scientific data. *Traffic*, **2018**, 19, 105-110	5.7	42
339	Caveolae: Structure, Function, and Relationship to Disease. *Annual Review of Cell and Developmental Biology*, **2018**, 34, 111-136	12.6	105

338	Mechanochemical feedback control of dynamin independent endocytosis modulates membrane tension in adherent cells. *Nature Communications*, **2018**, 9, 4217	17.4	59
337	Minimum information reporting in bio-nano experimental literature. *Nature Nanotechnology*, **2018**, 13, 777-785	28.7	297
336	Ultrastructural localisation of protein interactions using conditionally stable nanobodies. *PLoS Biology*, **2018**, 16, e2005473	9.7	27
335	Rab5 and Alsin regulate stress-activated cytoprotective signaling on mitochondria. *ELife*, **2018**, 7,	8.9	37
334	Development of a human cardiac organoid injury model reveals innate regenerative potential. *Development (Cambridge)*, **2017**, 144, 1118-1127	6.6	84
333	A plasmid library of full-length zebrafish rab proteins for cell biology. *Cellular Logistics*, **2017**, 7, e1301151		3
332	Correlative light and electron microscopic detection of GFP-labeled proteins using modular APEX. *Methods in Cell Biology*, **2017**, 140, 105-121	1.8	11
331	Mammalian Diaphanous 1 Mediates a Pathway for E-cadherin to Stabilize Epithelial Barriers through Junctional Contractility. *Cell Reports*, **2017**, 18, 2854-2867	10.6	63
330	Cavin-1 deficiency modifies myocardial and coronary function, stretch responses and ischaemic tolerance: roles of NOS over-activity. *Basic Research in Cardiology*, **2017**, 112, 24	11.8	10
329	Laser-mediated rupture of chlamydial inclusions triggers pathogen egress and host cell necrosis. *Nature Communications*, **2017**, 8, 14729	17.4	12
328	ORP5 and ORP8 bind phosphatidylinositol-4, 5-biphosphate (PtdIns(4,5)P) and regulate its level at the plasma membrane. *Nature Communications*, **2017**, 8, 757	17.4	117
327	Tyrosine dephosphorylated cortactin downregulates contractility at the epithelial zonula adherens through SRGAP1. *Nature Communications*, **2017**, 8, 790	17.4	21
326	A kinetic view of GPCR allostery and biased agonism. *Nature Chemical Biology*, **2017**, 13, 929-937	11.7	89
325	A microtubule-organizing center directing intracellular transport in the early mouse embryo. *Science*, **2017**, 357, 925-928	33.3	71
324	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8372-E8381	11.5	239
323	Phosphatidylserine dictates the assembly and dynamics of caveolae in the plasma membrane. *Journal of Biological Chemistry*, **2017**, 292, 14292-14307	5.4	45
322	Caveolin 1 restricts Group A Streptococcus invasion of nonphagocytic host cells. *Cellular Microbiology*, **2017**, 19, e12772	3.9	4
321	Caveolae Protect Notochord Cells against Catastrophic Mechanical Failure during Development. *Current Biology*, **2017**, 27, 1968-1981.e7	6.3	46

320	A novel sphingomyelin/cholesterol domain-specific probe reveals the dynamics of the membrane domains during virus release and in Niemann-Pick type C. *FASEB Journal*, **2017**, 31, 1301-1322	0.9	23
319	A distinct plasma lipid signature associated with poor prognosis in castration-resistant prostate cancer. *International Journal of Cancer*, **2017**, 141, 2112-2120	7.5	42
318	Functional role of T-cell receptor nanoclusters in signal initiation and antigen discrimination. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5454-63	11.5	131
317	An endosomal tether undergoes an entropic collapse to bring vesicles together. *Nature*, **2016**, 537, 107-111	36.4	84
316	Unraveling the architecture of caveolae. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14170-14172	11.5	16
315	Subdiffractional tracking of internalized molecules reveals heterogeneous motion states of synaptic vesicles. *Journal of Cell Biology*, **2016**, 215, 277-292	7.3	38
314	Interplay between hepatic mitochondria-associated membranes, lipid metabolism and caveolin-1 in mice. *Scientific Reports*, **2016**, 6, 27351	4.9	102
313	SEIPIN Regulates Lipid Droplet Expansion and Adipocyte Development by Modulating the Activity of Glycerol-3-phosphate Acyltransferase. *Cell Reports*, **2016**, 17, 1546-1559	10.6	114
312	Resolution of Novel Pancreatic Ductal Adenocarcinoma Subtypes by Global Phosphotyrosine Profiling. *Molecular and Cellular Proteomics*, **2016**, 15, 2671-85	7.6	25
311	Mechanoprotection by skeletal muscle caveolae. *Bioarchitecture*, **2016**, 6, 22-7		17
310	New Transgenic Lines for Localization of GFP-Tagged Proteins by Electron Microscopy. *Zebrafish*, **2016**, 13, 232-3	2	1
309	Annexin A6 regulates interleukin-2-mediated T-cell proliferation. *Immunology and Cell Biology*, **2016** , 94, 543-53	5	18
308	AarF Domain Containing Kinase 3 (ADCK3) Mutant Cells Display Signs of Oxidative Stress, Defects in Mitochondrial Homeostasis and Lysosomal Accumulation. *PLoS ONE*, **2016**, 11, e0148213	3.7	10
307	Parkinson Disease-linked Vps35 R524W Mutation Impairs the Endosomal Association of Retromer and Induces Synuclein Aggregation. *Journal of Biological Chemistry*, **2016**, 291, 18283-98	5.4	50
306	Nanomolar oligomerization and selective co-aggregation of synuclein pathogenic mutants revealed by single-molecule fluorescence. *Scientific Reports*, **2016**, 6, 37630	4.9	24
305	Human immune cell targeting of protein nanoparticles--caveospheres. *Nanoscale*, **2016**, 8, 8255-65	7.7	26
304	Coronin 1B Reorganizes the Architecture of F-Actin Networks for Contractility at Steady-State and Apoptotic Adherens Junctions. *Developmental Cell*, **2016**, 37, 58-71	10.2	67
303	Prolonged Intake of Dietary Lipids Alters Membrane Structure and T Cell Responses in LDLr-/- Mice. *Journal of Immunology*, **2016**, 196, 3993-4002	5.3	14

302	Munc18-1 is a molecular chaperone for α-synuclein, controlling its self-replicating aggregation. *Journal of Cell Biology*, **2016**, 214, 705-18	7.3	38
301	High-density lipoprotein inhibits human M1 macrophage polarization through redistribution of caveolin-1. *British Journal of Pharmacology*, **2016**, 173, 741-51	8.6	34
300	Discreet and distinct clustering of five model membrane proteins revealed by single molecule localization microscopy. *Molecular Membrane Biology*, **2015**, 32, 11-8	3.4	7
299	The ether lipid precursor hexadecylglycerol stimulates the release and changes the composition of exosomes derived from PC-3 cells. *Journal of Biological Chemistry*, **2015**, 290, 4225-37	5.4	65
298	Critical role of CAV1/caveolin-1 in cell stress responses in human breast cancer cells via modulation of lysosomal function and autophagy. *Autophagy*, **2015**, 11, 769-84	10.2	77
297	Cavin family proteins and the assembly of caveolae. *Journal of Cell Science*, **2015**, 128, 1269-78	5.3	132
296	Building endocytic pits without clathrin. *Nature Reviews Molecular Cell Biology*, **2015**, 16, 311-21	48.7	135
295	A phosphoinositide-binding cluster in cavin1 acts as a molecular sensor for cavin1 degradation. *Molecular Biology of the Cell*, **2015**, 26, 3561-9	3.5	22
294	Caveolae control the anti-inflammatory phenotype of senescent endothelial cells. *Aging Cell*, **2015**, 14, 102-11	9.9	26
293	Kidney organoids from human iPS cells contain multiple lineages and model human nephrogenesis. *Nature*, **2015**, 526, 564-8	50.4	832
292	Adherens Junctions Revisualized: Organizing Cadherins as Nanoassemblies. *Developmental Cell*, **2015**, 35, 12-20	10.2	68
291	Molecular Characterization of Caveolin-induced Membrane Curvature. *Journal of Biological Chemistry*, **2015**, 290, 24875-90	5.4	60
290	APPL endosomes are not obligatory endocytic intermediates but act as stable cargo-sorting compartments. *Journal of Cell Biology*, **2015**, 211, 123-44	7.3	64
289	The caveolin-cavin system plays a conserved and critical role in mechanoprotection of skeletal muscle. *Journal of Cell Biology*, **2015**, 210, 833-49	7.3	94
288	Modular Detection of GFP-Labeled Proteins for Rapid Screening by Electron Microscopy in Cells and Organisms. *Developmental Cell*, **2015**, 35, 513-25	10.2	79
287	Visualization of the heterogeneous membrane distribution of sphingomyelin associated with cytokinesis, cell polarity, and sphingolipidosis. *FASEB Journal*, **2015**, 29, 477-93	0.9	61
286	MURC/cavin-4 Is Co-Expressed with Caveolin-3 in Rhabdomyosarcoma Tumors and Its Silencing Prevents Myogenic Differentiation in the Human Embryonal RD Cell Line. *PLoS ONE*, **2015**, 10, e0130287	3.7	2
285	Detection of GFP-labeled Proteins by Electron Microscopy. *Microscopy and Microanalysis*, **2015**, 21, 531-532	3.5	

284	AMPK activation promotes lipid droplet dispersion on detyrosinated microtubules to increase mitochondrial fatty acid oxidation. *Nature Communications*, **2015**, 6, 7176	17.4	154
283	Oligomerization and endocytosis of Hedgehog is necessary for its efficient exovesicular secretion. *Molecular Biology of the Cell*, **2015**, 26, 4700-17	3.5	26
282	An RPTPβ/Src family kinase/Rap1 signaling module recruits myosin IIB to support contractile tension at apical E-cadherin junctions. *Molecular Biology of the Cell*, **2015**, 26, 1249-62	3.5	32
281	Are caveolae a cellular entry route for non-viral therapeutic delivery systems?. *Advanced Drug Delivery Reviews*, **2015**, 91, 92-108	18.5	45
280	Seeing and believing: recent advances in imaging cell-cell interactions. *F1000Research*, **2015**, 4, 273	3.6	3
279	Non-caveolar caveolin-1 expression in prostate cancer cells promotes lymphangiogenesis. *Oncoscience*, **2015**, 2, 635-45	0.8	15
278	Diet-induced hypercholesterolemia promotes androgen-independent prostate cancer metastasis via IQGAP1 and caveolin-1. *Oncotarget*, **2015**, 6, 7438-53	3.3	34
277	Signal integration by lipid-mediated spatial cross talk between Ras nanoclusters. *Molecular and Cellular Biology*, **2014**, 34, 862-76	4.8	85
276	Galectin-3 drives glycosphingolipid-dependent biogenesis of clathrin-independent carriers. *Nature Cell Biology*, **2014**, 16, 595-606	23.4	177
275	Cortical F-actin stabilization generates apical-lateral patterns of junctional contractility that integrate cells into epithelia. *Nature Cell Biology*, **2014**, 16, 167-78	23.4	159
274	Structural insights into the organization of the cavin membrane coat complex. *Developmental Cell*, **2014**, 31, 405-19	10.2	64
273	Cortactin scaffolds Arp2/3 and WAVE2 at the epithelial zonula adherens. *Journal of Biological Chemistry*, **2014**, 289, 7764-75	5.4	49
272	Clathrin-independent pathways of endocytosis. *Cold Spring Harbor Perspectives in Biology*, **2014**, 6,	10.2	301
271	Cavin-1/PTRF alters prostate cancer cell-derived extracellular vesicle content and internalization to attenuate extracellular vesicle-mediated osteoclastogenesis and osteoblast proliferation. *Journal of Extracellular Vesicles*, **2014**, 3,	16.4	65
270	Population distribution analyses reveal a hierarchy of molecular players underlying parallel endocytic pathways. *PLoS ONE*, **2014**, 9, e100554	3.7	13
269	Review: biogenesis of the multifunctional lipid droplet: lipids, proteins, and sites. *Journal of Cell Biology*, **2014**, 204, 635-46	7.3	305
268	PTRF/cavin-1 neutralizes non-caveolar caveolin-1 microdomains in prostate cancer. *Oncogene*, **2014**, 33, 3561-70	9.2	54
267	Caveolae regulate the nanoscale organization of the plasma membrane to remotely control Ras signaling. *Journal of Cell Biology*, **2014**, 204, 777-92	7.3	95

266	Endocytic crosstalk: cavins, caveolins, and caveolae regulate clathrin-independent endocytosis. *PLoS Biology*, **2014**, 12, e1001832	9.7	99
265	Pkd1 regulates lymphatic vascular morphogenesis during development. *Cell Reports*, **2014**, 7, 623-33	10.6	63
264	Caveolae regulate the nanoscale organization of the plasma membrane to remotely control Ras signaling. *Journal of General Physiology*, **2014**, 143, 1434OIA10	3.4	
263	SnapShot: caveolae, caveolins, and cavins. *Cell*, **2013**, 154, 704-704.e1	56.2	28
262	Cell-to-cell heterogeneity in lipid droplets suggests a mechanism to reduce lipotoxicity. *Current Biology*, **2013**, 23, 1489-96	6.3	114
261	RhoD participates in the regulation of cell-cycle progression and centrosome duplication. *Oncogene* , **2013**, 32, 1831-42	9.2	18
260	Caveola-forming proteins caveolin-1 and PTRF in prostate cancer. *Nature Reviews Urology*, **2013**, 10, 529-36	3.9	40
259	Characterisation of the adiponectin receptors: the non-conserved N-terminal region of AdipoR2 prevents its expression at the cell-surface. *Biochemical and Biophysical Research Communications*, **2013**, 432, 28-33	3.4	7
258	Adaptor proteins MiD49 and MiD51 can act independently of Mff and Fis1 in Drp1 recruitment and are specific for mitochondrial fission. *Journal of Biological Chemistry*, **2013**, 288, 27584-27593	5.4	184
257	Glucose principally regulates insulin secretion in mouse islets by controlling the numbers of granule fusion events per cell. *Diabetologia*, **2013**, 56, 2629-37	10.3	35
256	Caveolae as plasma membrane sensors, protectors and organizers. *Nature Reviews Molecular Cell Biology*, **2013**, 14, 98-112	48.7	595
255	Caveolin-1 is necessary for hepatic oxidative lipid metabolism: evidence for crosstalk between caveolin-1 and bile acid signaling. *Cell Reports*, **2013**, 4, 238-47	10.6	43
254	Single-molecule analysis reveals self assembly and nanoscale segregation of two distinct cavin subcomplexes on caveolae. *ELife*, **2013**, 3, e01434	8.9	97
253	PNPLA3/adiponutrin functions in lipid droplet formation. *Biology of the Cell*, **2013**, 105, 219-233	3.5	65
252	Examination of the subsarcolemmal tubular system of mammalian skeletal muscle fibers. *Biophysical Journal*, **2013**, 104, L19-21	2.9	8
251	Rab18 binds to hepatitis C virus NS5A and promotes interaction between sites of viral replication and lipid droplets. *PLoS Pathogens*, **2013**, 9, e1003513	7.6	102
250	Fendiline inhibits K-Ras plasma membrane localization and blocks K-Ras signal transmission. *Molecular and Cellular Biology*, **2013**, 33, 237-51	4.8	78
249	Acyl-CoA synthetase 3 promotes lipid droplet biogenesis in ER microdomains. *Journal of Cell Biology*, **2013**, 203, 985-1001	7.3	196

248	Patched1 is required in neural crest cells for the prevention of orofacial clefts. *Human Molecular Genetics*, **2013**, 22, 5026-35	5.6	31
247	The HSP90 inhibitor geldanamycin perturbs endosomal structure and drives recycling ErbB2 and transferrin to modified MVBs/lysosomal compartments. *Molecular Biology of the Cell*, **2013**, 24, 129-44	3.5	33
246	The RhoD to centrosomal duplication. *Small GTPases*, **2013**, 4, 116-22	2.7	2
245	Building a better dynasore: the dyngo compounds potently inhibit dynamin and endocytosis. *Traffic* , **2013**, 14, 1272-89	5.7	153
244	PTRF/Cavin-1 decreases prostate cancer angiogenesis and lymphangiogenesis. *Oncotarget*, **2013**, 4, 1844-55	5.3	35
243	Phosphocaveolin-1 is a mechanotransducer that induces caveola biogenesis via Egr1 transcriptional regulation. *Journal of Cell Biology*, **2012**, 199, 425-35	7.3	79
242	Staurosporines disrupt phosphatidylserine trafficking and mislocalize Ras proteins. *Journal of Biological Chemistry*, **2012**, 287, 43573-84	5.4	72
241	Constitutive formation of caveolae in a bacterium. *Cell*, **2012**, 150, 752-63	56.2	94
240	Design and application of in vivo FRET biosensors to identify protein prenylation and nanoclustering inhibitors. *Chemistry and Biology*, **2012**, 19, 866-74		23
239	Caveolin-1 plays a critical role in the differentiation of monocytes into macrophages. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, e117-25	9.4	45
238	Structure-based reassessment of the caveolin signaling model: do caveolae regulate signaling through caveolin-protein interactions?. *Developmental Cell*, **2012**, 23, 11-20	10.2	101
237	SNX12 role in endosome membrane transport. *PLoS ONE*, **2012**, 7, e38949	3.7	20
236	Co-regulation of cell polarization and migration by caveolar proteins PTRF/Cavin-1 and caveolin-1. *PLoS ONE*, **2012**, 7, e43041	3.7	45
235	Different characteristics and nucleotide binding properties of inosine monophosphate dehydrogenase (IMPDH) isoforms. *PLoS ONE*, **2012**, 7, e51096	3.7	50
234	Normalization of protein at different stages in SILAC subcellular proteomics affects functional analysis. *Journal of Integrated OMICS*, **2012**, 2,	0.5	3
233	Caveolin-1 orchestrates the balance between glucose and lipid-dependent energy metabolism: implications for liver regeneration. *Hepatology*, **2012**, 55, 1574-84	11.2	60
232	Expression of PTRF in PC-3 Cells modulates cholesterol dynamics and the actin cytoskeleton impacting secretion pathways. *Molecular and Cellular Proteomics*, **2012**, 11, M111.012245	7.6	50
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2	Piezo1 Induces Local Curvature in a Mammalian Membrane and Forms Specific Protein-Lipid Interactions		3
1	Cavin1 intrinsically disordered domains are essential for fuzzy electrostatic interactions and caveola formation		1