Robert G Parton

List of Publications by Citations

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 small GTPase rab5 functions as a regulatory factor in the early endocytic pathway. *Cell*, **1992**, 70, 715-28	56.2	1174
408	The multiple faces of caveolae. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 185-94	48.7	1116
407	Rab11 regulates recycling through the pericentriolar recycling endosome. *Journal of Cell Biology*, **1996**, 135, 913-24	7.3	1073
406	Localization of low molecular weight GTP binding proteins to exocytic and endocytic compartments. *Cell*, **1990**, 62, 317-29	56.2	1036
405	Lipid droplets: a unified view of a dynamic organelle. *Nature Reviews Molecular Cell Biology*, **2006**, 7, 373-8	48.7	879
404	Kidney organoids from human iPS cells contain multiple lineages and model human nephrogenesis. *Nature*, **2015**, 526, 564-8	50.4	832
403	Localization of phosphatidylinositol 3-phosphate in yeast and mammalian cells. *EMBO Journal*, **2000**, 19, 4577-88	13	829
402	Regulated internalization of caveolae. *Journal of Cell Biology*, **1994**, 127, 1199-215	7.3	671
401	A lipid associated with the antiphospholipid syndrome regulates endosome structure and function. *Nature*, **1998**, 392, 193-7	50.4	652
400	Direct visualization of Ras proteins in spatially distinct cell surface microdomains. *Journal of Cell Biology*, **2003**, 160, 165-70	7.3	617
399	Caveolae as plasma membrane sensors, protectors and organizers. *Nature Reviews Molecular Cell Biology*, **2013**, 14, 98-112	48.7	595
398	EEA1, an early endosome-associated protein. EEA1 is a conserved alpha-helical peripheral membrane protein flanked by cysteine "fingers" and contains a calmodulin-binding IQ motif. *Journal of Biological Chemistry*, **1995**, 270, 13503-11	5.4	582
397	Cells respond to mechanical stress by rapid disassembly of caveolae. *Cell*, **2011**, 144, 402-13	56.2	575
396	Biogenesis of phagolysosomes proceeds through a sequential series of interactions with the endocytic apparatus. *Journal of Cell Biology*, **1994**, 124, 677-88	7.3	567
395	PTRF-Cavin, a conserved cytoplasmic protein required for caveola formation and function. *Cell*, **2008**, 132, 113-24	56.2	537
394	Role of LBPA and Alix in multivesicular liposome formation and endosome organization. *Science*, **2004**, 303, 531-4	33.3	528
393	GPI-anchored proteins are delivered to recycling endosomes via a distinct cdc42-regulated, clathrin-independent pinocytic pathway. *Developmental Cell*, **2002**, 2, 411-23	10.2	524

392	De novo formation of caveolae in lymphocytes by expression of VIP21-caveolin. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 8655-9	11.5	521
391	Late endosomal membranes rich in lysobisphosphatidic acid regulate cholesterol transport. *Nature Cell Biology*, **1999**, 1, 113-8	23.4	520
390	Membrane microdomains and caveolae. *Current Opinion in Cell Biology*, **1999**, 11, 424-31	9	514
389	Caveolae and caveolins. *Current Opinion in Cell Biology*, **1996**, 8, 542-8	9	504
388	VIP21, a 21-kD membrane protein is an integral component of trans-Golgi-network-derived transport vesicles. *Journal of Cell Biology*, **1992**, 118, 1003-14	7.3	498
387	Ultrastructural localization of gangliosides; GM1 is concentrated in caveolae. *Journal of Histochemistry and Cytochemistry*, **1994**, 42, 155-66	3.4	469
386	Lipid rafts and caveolae as portals for endocytosis: new insights and common mechanisms. *Traffic*, **2003**, 4, 724-38	5.7	460
385	GTP-dependent segregation of H-ras from lipid rafts is required for biological activity. *Nature Cell Biology*, **2001**, 3, 368-75	23.4	457
384	APPL proteins link Rab5 to nuclear signal transduction via an endosomal compartment. *Cell*, **2004**, 116, 445-56	56.2	453
383	Inhibition of rab5 GTPase activity stimulates membrane fusion in endocytosis. *EMBO Journal*, **1994**, 13, 1287-96	13	415
382	VIP21-caveolin, a membrane protein constituent of the caveolar coat, oligomerizes in vivo and in vitro. *Molecular Biology of the Cell*, **1995**, 6, 911-27	3.5	407
381	Rab8, a small GTPase involved in vesicular traffic between the TGN and the basolateral plasma membrane. *Journal of Cell Biology*, **1993**, 123, 35-45	7.3	391
380	Dominant-negative caveolin inhibits H-Ras function by disrupting cholesterol-rich plasma membrane domains. *Nature Cell Biology*, **1999**, 1, 98-105	23.4	386
379	H-ras, K-ras, and inner plasma membrane raft proteins operate in nanoclusters with differential dependence on the actin cytoskeleton. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 15500-5	11.5	370
378	H-ras but not K-ras traffics to the plasma membrane through the exocytic pathway. *Molecular and Cellular Biology*, **2000**, 20, 2475-87	4.8	358
377	Detergent-insoluble glycolipid microdomains in lymphocytes in the absence of caveolae. *Journal of Biological Chemistry*, **1994**, 269, 30745-8	5.4	353
376	Detergent-insoluble glycolipid microdomains in lymphocytes in the absence of caveolae.. *Journal of Biological Chemistry*, **1994**, 269, 30745-30748	5.4	351
375	Ultrastructural identification of uncoated caveolin-independent early endocytic vehicles. *Journal of Cell Biology*, **2005**, 168, 465-76	7.3	347

374	Fld1p, a functional homologue of human seipin, regulates the size of lipid droplets in yeast. *Journal of Cell Biology*, **2008**, 180, 473-82	7.3	346
373	An endosomal beta COP is involved in the pH-dependent formation of transport vesicles destined for late endosomes. *Journal of Cell Biology*, **1996**, 133, 29-41	7.3	317
372	Brucella abortus transits through the autophagic pathway and replicates in the endoplasmic reticulum of nonprofessional phagocytes. *Infection and Immunity*, **1998**, 66, 5711-24	3.7	317
371	Plasma membrane nanoswitches generate high-fidelity Ras signal transduction. *Nature Cell Biology*, **2007**, 9, 905-14	23.4	314
370	Review: biogenesis of the multifunctional lipid droplet: lipids, proteins, and sites. *Journal of Cell Biology*, **2014**, 204, 635-46	7.3	305
369	Digging into caveolae. *Science*, **1995**, 269, 1398-9	33.3	303
368	Clathrin-independent pathways of endocytosis. *Cold Spring Harbor Perspectives in Biology*, **2014**, 6,	10.2	301
367	Not just fat: the structure and function of the lipid droplet. *Cold Spring Harbor Perspectives in Biology*, **2011**, 3,	10.2	301
366	Minimum information reporting in bio-nano experimental literature. *Nature Nanotechnology*, **2018**, 13, 777-785	28.7	297
365	Caveolin-3 associates with developing T-tubules during muscle differentiation. *Journal of Cell Biology*, **1997**, 136, 137-54	7.3	292
364	Microtubule- and motor-dependent fusion in vitro between apical and basolateral endocytic vesicles from MDCK cells. *Cell*, **1990**, 62, 719-31	56.2	276
363	A caveolin dominant negative mutant associates with lipid bodies and induces intracellular cholesterol imbalance. *Journal of Cell Biology*, **2001**, 152, 1057-70	7.3	275
362	The recycling endosome of Madin-Darby canine kidney cells is a mildly acidic compartment rich in raft components. *Molecular Biology of the Cell*, **2000**, 11, 2775-91	3.5	265
361	Endosome-to-cytosol transport of viral nucleocapsids. *Nature Cell Biology*, **2005**, 7, 653-64	23.4	253
360	Myosin II isoforms identify distinct functional modules that support integrity of the epithelial zonula adherens. *Nature Cell Biology*, **2010**, 12, 696-702	23.4	245
359	Sequence-dependent sorting of recycling proteins by actin-stabilized endosomal microdomains. *Cell*, **2010**, 143, 761-73	56.2	240
358	Axonal and dendritic endocytic pathways in cultured neurons. *Journal of Cell Biology*, **1992**, 119, 123-37	7.3	240
357	Regulation of caveolin and caveolae by cholesterol in MDCK cells. *Journal of Lipid Research*, **1998**, 39, 369-379	6.3	240

356	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
355	A role for phosphatidic acid in the formation of "supersized" lipid droplets. *PLoS Genetics*, **2011**, 7, e1002201	8	235
354	Endocytosis in filter-grown Madin-Darby canine kidney cells. *Journal of Cell Biology*, **1989**, 109, 3243-58	7.3	235
353	The tetraspanin CD63/lamp3 cycles between endocytic and secretory compartments in human endothelial cells. *Molecular Biology of the Cell*, **2000**, 11, 1829-43	3.5	234
352	Flotillin-1-enriched lipid raft domains accumulate on maturing phagosomes. *Journal of Biological Chemistry*, **2001**, 276, 18507-12	5.4	232
351	Regulated localization of Rab18 to lipid droplets: effects of lipolytic stimulation and inhibition of lipid droplet catabolism. *Journal of Biological Chemistry*, **2005**, 280, 42325-35	5.4	231
350	Clathrin-independent carriers form a high capacity endocytic sorting system at the leading edge of migrating cells. *Journal of Cell Biology*, **2010**, 190, 675-91	7.3	230
349	Selective stimulation of caveolar endocytosis by glycosphingolipids and cholesterol. *Molecular Biology of the Cell*, **2004**, 15, 3114-22	3.5	228
348	A role for oxysterol-binding protein-related protein 5 in endosomal cholesterol trafficking. *Journal of Cell Biology*, **2011**, 192, 121-35	7.3	227
347	Fsp27 promotes lipid droplet growth by lipid exchange and transfer at lipid droplet contact sites. *Journal of Cell Biology*, **2011**, 195, 953-63	7.3	226
346	Biogenesis of caveolae: a structural model for caveolin-induced domain formation. *Journal of Cell Science*, **2006**, 119, 787-96	5.3	224
345	Cholesterol manipulation by West Nile virus perturbs the cellular immune response. *Cell Host and Microbe*, **2007**, 2, 229-39	23.4	224
344	Polarized sorting of glypiated proteins in hippocampal neurons. *Nature*, **1991**, 349, 158-61	50.4	219
343	Major histocompatibility complex class I molecules mediate association of SV40 with caveolae. *Molecular Biology of the Cell*, **1997**, 8, 47-57	3.5	215
342	High-resolution mapping reveals topologically distinct cellular pools of phosphatidylserine. *Journal of Cell Biology*, **2011**, 194, 257-75	7.3	214
341	Caveolin-1 is essential for liver regeneration. *Science*, **2006**, 313, 1628-32	33.3	211
340	MURC/Cavin-4 and cavin family members form tissue-specific caveolar complexes. *Journal of Cell Biology*, **2009**, 185, 1259-73	7.3	207
339	Regulation of caveolin and caveolae by cholesterol in MDCK cells. *Journal of Lipid Research*, **1998**, 39, 369-79	6.3	205

338	Lipid droplet-organelle interactions; sharing the fats. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2009**, 1791, 441-7	5	203
337	Flotillins and the PHB domain protein family: rafts, worms and anaesthetics. *Traffic*, **2005**, 6, 725-40	5.7	201
336	Endosome dynamics regulated by a Rho protein. *Nature*, **1996**, 384, 427-32	50.4	201
335	Association of stomatin with lipid bodies. *Journal of Biological Chemistry*, **2004**, 279, 23699-709	5.4	198
334	Acyl-CoA synthetase 3 promotes lipid droplet biogenesis in ER microdomains. *Journal of Cell Biology*, **2013**, 203, 985-1001	7.3	196
333	Meeting of the apical and basolateral endocytic pathways of the Madin-Darby canine kidney cell in late endosomes. *Journal of Cell Biology*, **1989**, 109, 3259-72	7.3	195
332	A pore-forming toxin interacts with a GPI-anchored protein and causes vacuolation of the endoplasmic reticulum. *Journal of Cell Biology*, **1998**, 140, 525-40	7.3	193
331	Clathrin-independent endocytosis: new insights into caveolae and non-caveolar lipid raft carriers. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2005**, 1745, 273-86	4.9	190
330	Specific release of membrane-bound annexin II and cortical cytoskeletal elements by sequestration of membrane cholesterol. *Molecular Biology of the Cell*, **1997**, 8, 533-45	3.5	189
329	Ras plasma membrane signalling platforms. *Biochemical Journal*, **2005**, 389, 1-11	3.8	189
328	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
327	The GTPase-activating protein GRAF1 regulates the CLIC/GEEC endocytic pathway. *Current Biology*, **2008**, 18, 1802-8	6.3	183
326	Membrane insertion of anthrax protective antigen and cytoplasmic delivery of lethal factor occur at different stages of the endocytic pathway. *Journal of Cell Biology*, **2004**, 166, 645-51	7.3	182
325	Dynamic and regulated association of caveolin with lipid bodies: modulation of lipid body motility and function by a dominant negative mutant. *Molecular Biology of the Cell*, **2004**, 15, 99-110	3.5	178
324	Galectin-3 drives glycosphingolipid-dependent biogenesis of clathrin-independent carriers. *Nature Cell Biology*, **2014**, 16, 595-606	23.4	177
323	Differential sorting and fate of endocytosed GPI-anchored proteins. *EMBO Journal*, **2002**, 21, 3989-4000	13	177
322	Individual palmitoyl residues serve distinct roles in H-ras trafficking, microlocalization, and signaling. *Molecular and Cellular Biology*, **2005**, 25, 6722-33	4.8	177
321	M-caveolin, a muscle-specific caveolin-related protein. *FEBS Letters*, **1995**, 376, 108-12	3.8	177

320	Rab11, a small GTPase associated with both constitutive and regulated secretory pathways in PC12 cells. *FEBS Letters*, **1993**, 334, 175-82	3.8	175
319	A novel 14-kilodalton protein interacts with the mitogen-activated protein kinase scaffold mp1 on a late endosomal/lysosomal compartment. *Journal of Cell Biology*, **2001**, 152, 765-76	7.3	172
318	Cholesterol and fatty acids regulate dynamic caveolin trafficking through the Golgi complex and between the cell surface and lipid bodies. *Molecular Biology of the Cell*, **2005**, 16, 2091-105	3.5	166
317	Lipid rafts and plasma membrane microorganization: insights from Ras. *Trends in Cell Biology*, **2004**, 14, 141-7	18.3	164
316	The Rab5 effector Rabankyrin-5 regulates and coordinates different endocytic mechanisms. *PLoS Biology*, **2004**, 2, E261	9.7	162
315	Annexin II regulates multivesicular endosome biogenesis in the degradation pathway of animal cells. *EMBO Journal*, **2003**, 22, 3242-53	13	160
314	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
313	Flotillin-1/reggie-2 traffics to surface raft domains via a novel golgi-independent pathway. Identification of a novel membrane targeting domain and a role for palmitoylation. *Journal of Biological Chemistry*, **2002**, 277, 48834-41	5.4	159
312	Molecules, mechanisms, and cellular roles of clathrin-independent endocytosis. *Current Opinion in Cell Biology*, **2010**, 22, 519-27	9	158
311	Identifying optimal lipid raft characteristics required to promote nanoscale protein-protein interactions on the plasma membrane. *Molecular and Cellular Biology*, **2006**, 26, 313-23	4.8	156
310	A novel switch region regulates H-ras membrane orientation and signal output. *EMBO Journal*, **2008**, 27, 727-35	13	155
309	AMPK activation promotes lipid droplet dispersion on detyrosinated microtubules to increase mitochondrial fatty acid oxidation. *Nature Communications*, **2015**, 6, 7176	17.4	154
308	Building a better dynasore: the dyngo compounds potently inhibit dynamin and endocytosis. *Traffic* , **2013**, 14, 1272-89	5.7	153
307	Functional dissection of COP-I subunits in the biogenesis of multivesicular endosomes. *Journal of Cell Biology*, **1997**, 139, 1183-95	7.3	152
306	Caveolae at a glance. *Journal of Cell Science*, **2010**, 123, 3831-6	5.3	151
305	Caveolin, cholesterol, and lipid bodies. *Seminars in Cell and Developmental Biology*, **2005**, 16, 163-74	7.5	149
304	EEA1, a tethering protein of the early sorting endosome, shows a polarized distribution in hippocampal neurons, epithelial cells, and fibroblasts. *Molecular Biology of the Cell*, **2000**, 11, 2657-71	3.5	149
303	Uptake and intracellular fate of disulfide-bonded polymer hydrogel capsules for Doxorubicin delivery to colorectal cancer cells. *ACS Nano*, **2010**, 4, 2928-36	16.7	147

302	Characterization of E-cadherin endocytosis in isolated MCF-7 and chinese hamster ovary cells: the initial fate of unbound E-cadherin. *Journal of Biological Chemistry*, **2003**, 278, 21050-7	5.4	147
301	Prohibitin, an antiproliferative protein, is localized to mitochondria. *FEBS Letters*, **1995**, 358, 273-7	3.8	147
300	Dynamic microtubules regulate the local concentration of E-cadherin at cell-cell contacts. *Journal of Cell Science*, **2006**, 119, 1801-11	5.3	146
299	Erratum to Clathrin-independent endocytosis: New insights into caveolae and non-caveolar lipid raft carriers[Biochim. Biophys. Acta 1744 (2005) 273286]. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2005**, 1746, 349	4.9	146
298	Lysobisphosphatidic acid controls endosomal cholesterol levels. *Journal of Biological Chemistry*, **2008**, 283, 27871-27880	5.4	143
297	Caveolae and sorting in the trans-Golgi network of epithelial cells. *EMBO Journal*, **1993**, 12, 1597-605	13	142
296	Cholesterol-sensitive Cdc42 activation regulates actin polymerization for endocytosis via the GEEC pathway. *Traffic*, **2007**, 8, 702-17	5.7	141
295	Cholesterol-induced caveolin targeting to lipid droplets in adipocytes: a role for caveolar endocytosis. *Traffic*, **2006**, 7, 549-61	5.7	140
294	Annexin XIIIb: a novel epithelial specific annexin is implicated in vesicular traffic to the apical plasma membrane. *Journal of Cell Biology*, **1995**, 128, 1043-53	7.3	140
293	RORalpha regulates the expression of genes involved in lipid homeostasis in skeletal muscle cells: caveolin-3 and CPT-1 are direct targets of ROR. *Journal of Biological Chemistry*, **2004**, 279, 36828-40	5.4	138
292	Three separable domains regulate GTP-dependent association of H-ras with the plasma membrane. *Molecular and Cellular Biology*, **2004**, 24, 6799-810	4.8	138
291	Caveolae--from ultrastructure to molecular mechanisms. *Nature Reviews Molecular Cell Biology*, **2003**, 4, 162-7	48.7	138
290	Building endocytic pits without clathrin. *Nature Reviews Molecular Cell Biology*, **2015**, 16, 311-21	48.7	135
289	The involvement of the small GTP-binding protein Rab5a in neuronal endocytosis. *Neuron*, **1994**, 13, 11-22	23.9	135
288	EHD2 regulates caveolar dynamics via ATP-driven targeting and oligomerization. *Molecular Biology of the Cell*, **2012**, 23, 1316-29	3.5	133
287	Involvement of the transmembrane protein p23 in biosynthetic protein transport. *Journal of Cell Biology*, **1997**, 139, 1119-35	7.3	133
286	Cavin family proteins and the assembly of caveolae. *Journal of Cell Science*, **2015**, 128, 1269-78	5.3	132
285	High-resolution 3D quantitative analysis of caveolar ultrastructure and caveola-cytoskeleton interactions. *Traffic*, **2008**, 9, 893-909	5.7	132

284	Syntaxin 7 is localized to late endosome compartments, associates with Vamp 8, and Is required for late endosome-lysosome fusion. *Molecular Biology of the Cell*, **2000**, 11, 3137-53	3.5	132
283	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
282	Arachidonic acid release from mammalian cells transfected with human groups IIA and X secreted phospholipase A(2) occurs predominantly during the secretory process and with the involvement of cytosolic phospholipase A(2)-alpha. *Journal of Biological Chemistry*, **2004**, 279, 25024-38	5.4	127
281	The organization of the endoplasmic reticulum and the intermediate compartment in cultured rat hippocampal neurons. *Molecular Biology of the Cell*, **1995**, 6, 1315-32	3.5	127
280	Rab17, a novel small GTPase, is specific for epithelial cells and is induced during cell polarization. *Journal of Cell Biology*, **1993**, 121, 553-64	7.3	123
279	Rab17 regulates membrane trafficking through apical recycling endosomes in polarized epithelial cells. *Journal of Cell Biology*, **1998**, 140, 1039-53	7.3	121
278	Annexin A2-dependent polymerization of actin mediates endosome biogenesis. *Developmental Cell*, **2009**, 16, 445-57	10.2	120
277	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
276	A single method for cryofixation and correlative light, electron microscopy and tomography of zebrafish embryos. *Traffic*, **2009**, 10, 131-6	5.7	116
275	Clathrin-independent endocytosis: new insights into caveolae and non-caveolar lipid raft carriers. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2005**, 1746, 349-63	4.9	115
274	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
273	Cell-to-cell heterogeneity in lipid droplets suggests a mechanism to reduce lipotoxicity. *Current Biology*, **2013**, 23, 1489-96	6.3	114
272	Pore-forming toxins induce multiple cellular responses promoting survival. *Cellular Microbiology*, **2011**, 13, 1026-43	3.9	114
271	Visualisation of macropinosome maturation by the recruitment of sorting nexins. *Journal of Cell Science*, **2006**, 119, 3967-80	5.3	114
270	Caveolins and cellular cholesterol balance. *Traffic*, **2000**, 1, 212-7	5.7	109
269	Molecular characterization of caveolin association with the Golgi complex: identification of a cis-Golgi targeting domain in the caveolin molecule. *Journal of Cell Biology*, **1999**, 145, 1443-59	7.3	107
268	Late endosomal cholesterol accumulation leads to impaired intra-endosomal trafficking. *PLoS ONE*, **2007**, 2, e851	3.7	105
267	Caveolae: Structure, Function, and Relationship to Disease. *Annual Review of Cell and Developmental Biology*, **2018**, 34, 111-136	12.6	105

266	Key principles and methods for studying the endocytosis of biological and nanoparticle therapeutics. *Nature Nanotechnology*, **2021**, 16, 266-276	28.7	103
265	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
264	Interplay between hepatic mitochondria-associated membranes, lipid metabolism and caveolin-1 in mice. *Scientific Reports*, **2016**, 6, 27351	4.9	102
263	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
262	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
261	Caveolin interacts with the angiotensin II type 1 receptor during exocytic transport but not at the plasma membrane. *Journal of Biological Chemistry*, **2003**, 278, 23738-46	5.4	100
260	Endocytic crosstalk: cavins, caveolins, and caveolae regulate clathrin-independent endocytosis. *PLoS Biology*, **2014**, 12, e1001832	9.7	99
259	Single-molecule analysis reveals self assembly and nanoscale segregation of two distinct cavin subcomplexes on caveolae. *ELife*, **2013**, 3, e01434	8.9	97
258	N4WBP5, a potential target for ubiquitination by the Nedd4 family of proteins, is a novel Golgi-associated protein. *Journal of Biological Chemistry*, **2002**, 277, 9307-17	5.4	96
257	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
256	Rab23, a negative regulator of hedgehog signaling, localizes to the plasma membrane and the endocytic pathway. *Traffic*, **2003**, 4, 869-84	5.7	95
255	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
254	Constitutive formation of caveolae in a bacterium. *Cell*, **2012**, 150, 752-63	56.2	94
253	Arf6-independent GPI-anchored protein-enriched early endosomal compartments fuse with sorting endosomes via a Rab5/phosphatidylinositol-3'-kinase-dependent machinery. *Molecular Biology of the Cell*, **2006**, 17, 3689-704	3.5	93
252	Evolutionary analysis and molecular dissection of caveola biogenesis. *Journal of Cell Science*, **2008**, 121, 2075-86	5.3	91
251	Mutant huntingtin inhibits clathrin-independent endocytosis and causes accumulation of cholesterol in vitro and in vivo. *Human Molecular Genetics*, **2006**, 15, 3578-91	5.6	91
250	pH-induced microtubule-dependent redistribution of late endosomes in neuronal and epithelial cells. *Journal of Cell Biology*, **1991**, 113, 261-74	7.3	91
249	Transcytosis in MDCK cells: identification of glycoproteins transported bidirectionally between both plasma membrane domains. *Journal of Cell Biology*, **1990**, 111, 2909-21	7.3	91

248	Inhibitors of COP-mediated transport and cholera toxin action inhibit simian virus 40 infection. *Molecular Biology of the Cell*, **2002**, 13, 1750-64	3.5	90
247	A kinetic view of GPCR allostery and biased agonism. *Nature Chemical Biology*, **2017**, 13, 929-937	11.7	89
246	Electrostatic interactions positively regulate K-Ras nanocluster formation and function. *Molecular and Cellular Biology*, **2008**, 28, 4377-85	4.8	89
245	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
244	Signal integration by lipid-mediated spatial cross talk between Ras nanoclusters. *Molecular and Cellular Biology*, **2014**, 34, 862-76	4.8	85
243	Development of a human cardiac organoid injury model reveals innate regenerative potential. *Development (Cambridge)*, **2017**, 144, 1118-1127	6.6	84
242	An endosomal tether undergoes an entropic collapse to bring vesicles together. *Nature*, **2016**, 537, 107-111	50.5	84
241	Expression of caveolin-1 enhances cholesterol efflux in hepatic cells. *Journal of Biological Chemistry* , **2004**, 279, 14140-6	5.4	82
240	Mammalian lipid droplets are innate immune hubs integrating cell metabolism and host defense. *Science*, **2020**, 370,	33.3	82
239	Effect of the toxic milk mutation (tx) on the function and intracellular localization of Wnd, the murine homologue of the Wilson copper ATPase. *Human Molecular Genetics*, **2001**, 10, 361-70	5.6	81
238	Role of cholesterol in developing T-tubules: analogous mechanisms for T-tubule and caveolae biogenesis. *Traffic*, **2000**, 1, 326-41	5.7	80
237	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
236	Phosphocaveolin-1 is a mechanotransducer that induces caveola biogenesis via Egr1 transcriptional regulation. *Journal of Cell Biology*, **2012**, 199, 425-35	7.3	79
235	Zebrafish as a model for caveolin-associated muscle disease; caveolin-3 is required for myofibril organization and muscle cell patterning. *Human Molecular Genetics*, **2005**, 14, 1727-43	5.6	79
234	Fendiline inhibits K-Ras plasma membrane localization and blocks K-Ras signal transmission. *Molecular and Cellular Biology*, **2013**, 33, 237-51	4.8	78
233	Characterization of tetanus toxin binding to rat brain membranes. Evidence for a high-affinity proteinase-sensitive receptor. *Biochemical Journal*, **1986**, 236, 845-52	3.8	78
232	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
231	Cross-talk between caveolae and glycosylphosphatidylinositol-rich domains. *Journal of Biological Chemistry*, **2001**, 276, 30729-36	5.4	77

230	Hrs and SNX3 functions in sorting and membrane invagination within multivesicular bodies. *PLoS Biology*, **2008**, 6, e214	9.7	76
229	Epidermal growth factor receptor activation remodels the plasma membrane lipid environment to induce nanocluster formation. *Molecular and Cellular Biology*, **2010**, 30, 3795-804	4.8	75
228	Staurosporines disrupt phosphatidylserine trafficking and mislocalize Ras proteins. *Journal of Biological Chemistry*, **2012**, 287, 43573-84	5.4	72
227	Activation of the MAPK module from different spatial locations generates distinct system outputs. *Molecular Biology of the Cell*, **2008**, 19, 4776-84	3.5	72
226	A microtubule-organizing center directing intracellular transport in the early mouse embryo. *Science*, **2017**, 357, 925-928	33.3	71
225	Redistribution of caveolae during mitosis. *Journal of Cell Science*, **2011**, 124, 1965-72	5.3	71
224	Caveolin regulates endocytosis of the muscle repair protein, dysferlin. *Journal of Biological Chemistry*, **2008**, 283, 6476-88	5.4	71
223	Functional analysis and intracellular localization of the human menkes protein (MNK) stably expressed from a cDNA construct in Chinese hamster ovary cells (CHO-K1). *Human Molecular Genetics*, **1998**, 7, 1293-300	5.6	71
222	Quantitative analysis of lipid droplet fusion: inefficient steady state fusion but rapid stimulation by chemical fusogens. *PLoS ONE*, **2010**, 5, e15030	3.7	70
221	Characterization of a distinct plasma membrane macrodomain in differentiated adipocytes. *Journal of Biological Chemistry*, **2002**, 277, 46769-78	5.4	69
220	Retromer has a selective function in cargo sorting via endosome transport carriers. *Journal of Cell Biology*, **2019**, 218, 615-631	7.3	69
219	Adherens Junctions Revisualized: Organizing Cadherins as Nanoassemblies. *Developmental Cell*, **2015**, 35, 12-20	10.2	68
218	The association of annexin I with early endosomes is regulated by Ca2+ and requires an intact N-terminal domain. *Molecular Biology of the Cell*, **1996**, 7, 1359-74	3.5	68
217	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
216	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
215	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
214	PNPLA3/adiponutrin functions in lipid droplet formation. *Biology of the Cell*, **2013**, 105, 219-233	3.5	65
213	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

212	Structural insights into the organization of the cavin membrane coat complex. *Developmental Cell*, **2014**, 31, 405-19	10.2	64
211	M-caveolin, a muscle-specific caveolin-related protein. *FEBS Letters*, **1996**, 378, 108-12	3.8	64
210	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
209	Pkd1 regulates lymphatic vascular morphogenesis during development. *Cell Reports*, **2014**, 7, 623-33	10.6	63
208	Cell biology of neuronal endocytosis. *Journal of Neuroscience Research*, **1993**, 36, 1-9	4.4	63
207	Revisiting caveolin trafficking: the end of the caveosome. *Journal of Cell Biology*, **2010**, 191, 439-41	7.3	62
206	Visualization of the heterogeneous membrane distribution of sphingomyelin associated with cytokinesis, cell polarity, and sphingolipidosis. *FASEB Journal*, **2015**, 29, 477-93	0.9	61
205	Molecular Characterization of Caveolin-induced Membrane Curvature. *Journal of Biological Chemistry*, **2015**, 290, 24875-90	5.4	60
204	Caveolin-1 orchestrates the balance between glucose and lipid-dependent energy metabolism: implications for liver regeneration. *Hepatology*, **2012**, 55, 1574-84	11.2	60
203	Colony-stimulating factor-1 (CSF-1) delivers a proatherogenic signal to human macrophages. *Journal of Leukocyte Biology*, **2009**, 85, 278-88	6.5	60
202	Aberrant dysferlin trafficking in cells lacking caveolin or expressing dystrophy mutants of caveolin-3. *Human Molecular Genetics*, **2006**, 15, 129-42	5.6	60
201	Exploitation of major histocompatibility complex class I molecules and caveolae by simian virus 40. *Immunological Reviews*, **1999**, 168, 23-31	11.3	60
200	Hydrophobic and basic domains target proteins to lipid droplets. *Traffic*, **2009**, 10, 1785-801	5.7	59
199	Interaction of anti-phospholipid antibodies with late endosomes of human endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 563-74	9.4	59
198	Diversity of raft-like domains in late endosomes. *PLoS ONE*, **2007**, 2, e391	3.7	59
197	Mechanochemical feedback control of dynamin independent endocytosis modulates membrane tension in adherent cells. *Nature Communications*, **2018**, 9, 4217	17.4	59
196	Caveolae. *Current Biology*, **2018**, 28, R402-R405	6.3	58
195	Alpha-actinin-3 deficiency results in reduced glycogen phosphorylase activity and altered calcium handling in skeletal muscle. *Human Molecular Genetics*, **2010**, 19, 1335-46	5.6	58

194	A novel synaptobrevin/VAMP homologous protein (VAMP5) is increased during in vitro myogenesis and present in the plasma membrane. *Molecular Biology of the Cell*, **1998**, 9, 2423-37	3.5	58
193	The immunofluorescent era of membrane traffic. *Trends in Cell Biology*, **1993**, 3, 214-9	18.3	58
192	Mutations in mouse Ift144 model the craniofacial, limb and rib defects in skeletal ciliopathies. *Human Molecular Genetics*, **2012**, 21, 1808-23	5.6	57
191	Human Miltons associate with mitochondria and induce microtubule-dependent remodeling of mitochondrial networks. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2010**, 1803, 564-74	4.9	57
190	Involvement of caveolin-2 in caveolar biogenesis in MDCK cells. *FEBS Letters*, **2003**, 538, 85-8	3.8	57
189	A novel hook-related protein family and the characterization of hook-related protein 1. *Traffic*, **2005**, 6, 442-58	5.7	57
188	PTRF-cavin-1 expression decreases the migration of PC3 prostate cancer cells: role of matrix metalloprotease 9. *European Journal of Cell Biology*, **2011**, 90, 136-42	6.1	55
187	Nucleophosmin and nucleolin regulate K-Ras plasma membrane interactions and MAPK signal transduction. *Journal of Biological Chemistry*, **2009**, 284, 28410-28419	5.4	55
186	PTRF/cavin-1 neutralizes non-caveolar caveolin-1 microdomains in prostate cancer. *Oncogene*, **2014**, 33, 3561-70	9.2	54
185	Postlipolytic insulin-dependent remodeling of micro lipid droplets in adipocytes. *Molecular Biology of the Cell*, **2012**, 23, 1826-37	3.5	54
184	A study of the mechanism of internalisation of tetanus toxin by primary mouse spinal cord cultures. *Journal of Neurochemistry*, **1987**, 49, 1057-68	6	53
183	Cell biology. Life without caveolae. *Science*, **2001**, 293, 2404-5	33.3	51
182	Different characteristics and nucleotide binding properties of inosine monophosphate dehydrogenase (IMPDH) isoforms. *PLoS ONE*, **2012**, 7, e51096	3.7	50
181	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
180	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
179	Cortactin scaffolds Arp2/3 and WAVE2 at the epithelial zonula adherens. *Journal of Biological Chemistry*, **2014**, 289, 7764-75	5.4	49
178	Ca2+-regulated pool of phosphatidylinositol-3-phosphate produced by phosphatidylinositol 3-kinase C2alpha on neurosecretory vesicles. *Molecular Biology of the Cell*, **2008**, 19, 5593-603	3.5	49
177	Caveolin-1 is required for lateral line neuromast and notochord development. *Journal of Cell Science*, **2007**, 120, 2151-61	5.3	49

176	Regulation of albumin endocytosis by PSD95/Dlg/ZO-1 (PDZ) scaffolds. Interaction of Na+-H+ exchange regulatory factor-2 with ClC-5. *Journal of Biological Chemistry*, **2006**, 281, 16068-77	5.4	48
175	VIP36, a novel component of glycolipid rafts and exocytic carrier vesicles in epithelial cells. *EMBO Journal*, **1994**, 13, 1729-40	13	48
174	Small GTPases and BAR domain proteins regulate branched actin polymerisation for clathrin and dynamin-independent endocytosis. *Nature Communications*, **2018**, 9, 1835	17.4	47
173	Observing cell surface signaling domains using electron microscopy. *Science Signaling*, **2003**, 2003, PL9	8.8	47
172	Caveolae Protect Notochord Cells against Catastrophic Mechanical Failure during Development. *Current Biology*, **2017**, 27, 1968-1981.e7	6.3	46
171	The endocytic protein GRAF1 is directed to cell-matrix adhesion sites and regulates cell spreading. *Molecular Biology of the Cell*, **2011**, 22, 4380-9	3.5	46
170	Endocytosis Inhibition in Humans to Improve Responses to ADCC-Mediating Antibodies. *Cell*, **2020**, 180, 895-914.e27	56.2	45
169	Phosphatidylserine dictates the assembly and dynamics of caveolae in the plasma membrane. *Journal of Biological Chemistry*, **2017**, 292, 14292-14307	5.4	45
168	Are caveolae a cellular entry route for non-viral therapeutic delivery systems?. *Advanced Drug Delivery Reviews*, **2015**, 91, 92-108	18.5	45
167	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
166	Co-regulation of cell polarization and migration by caveolar proteins PTRF/Cavin-1 and caveolin-1. *PLoS ONE*, **2012**, 7, e43041	3.7	45
165	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
164	The growth suppressing gas1 product is a GPI-linked protein. *FEBS Letters*, **2000**, 481, 152-8	3.8	43
163	Inhibition of lipid raft-dependent signaling by a dystrophy-associated mutant of caveolin-3. *Journal of Biological Chemistry*, **2002**, 277, 17944-9	5.4	42
162	Sphingolipid transport from the trans-Golgi network to the apical surface in permeabilized MDCK cells. *FEBS Letters*, **1992**, 300, 227-31	3.8	42
161	Journey to the centre of the cell: Virtual reality immersion into scientific data. *Traffic*, **2018**, 19, 105-110	5.7	42
160	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
159	Cytoskeletal tropomyosin Tm5NM1 is required for normal excitation-contraction coupling in skeletal muscle. *Molecular Biology of the Cell*, **2009**, 20, 400-9	3.5	41

158	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
157	Caveolae: Formation, dynamics, and function. *Current Opinion in Cell Biology*, **2020**, 65, 8-16	9	40
156	Caveola-forming proteins caveolin-1 and PTRF in prostate cancer. *Nature Reviews Urology*, **2013**, 10, 529-36	3.9	40
155	Role of AP1 and Gadkin in the traffic of secretory endo-lysosomes. *Molecular Biology of the Cell*, **2011**, 22, 2068-82	3.5	40
154	Abnormal nuclear pore formation triggers apoptosis in the intestinal epithelium of elys-deficient zebrafish. *Gastroenterology*, **2009**, 136, 902-11	13.3	40
153	Vascular defects in a mouse model of hypotrichosis-lymphedema-telangiectasia syndrome indicate a role for SOX18 in blood vessel maturation. *Human Molecular Genetics*, **2009**, 18, 2839-50	5.6	39
152	Tetanus toxin binding to mouse spinal cord cells: an evaluation of the role of gangliosides in toxin internalization. *Brain Research*, **1988**, 475, 118-27	3.7	39
151	Subdiffractional tracking of internalized molecules reveals heterogeneous motion states of synaptic vesicles. *Journal of Cell Biology*, **2016**, 215, 277-292	7.3	38
150	Mathematical modeling of K-Ras nanocluster formation on the plasma membrane. *Biophysical Journal*, **2010**, 99, 534-43	2.9	38
149	Characterization of Rab18, a lipid droplet-associated small GTPase. *Methods in Enzymology*, **2008**, 438, 109-29	1.7	38
148	Clathrin isoform CHC22, a component of neuromuscular and myotendinous junctions, binds sorting nexin 5 and has increased expression during myogenesis and muscle regeneration. *Molecular Biology of the Cell*, **2004**, 15, 3181-95	3.5	38
147	Cloning and subcellular localization of novel rab proteins reveals polarized and cell type-specific expression. *Journal of Cell Science*, **1994**, 107 (Pt 12), 3437-48	5.3	38
146	Munc18-1 is a molecular chaperone for □synuclein, controlling its self-replicating aggregation. *Journal of Cell Biology*, **2016**, 214, 705-18	7.3	38
145	Rab5 and Alsin regulate stress-activated cytoprotective signaling on mitochondria. *ELife*, **2018**, 7,	8.9	37
144	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
143	The trans-membrane protein p25 forms highly specialized domains that regulate membrane composition and dynamics. *Journal of Cell Science*, **2003**, 116, 4821-32	5.3	35
142	Endocytosis in skeletal muscle fibers. *Experimental Cell Research*, **1999**, 253, 551-60	4.2	35
141	Localization of Rab family members in animal cells. *Methods in Enzymology*, **1992**, 219, 398-407	1.7	35

140	PTRF/Cavin-1 decreases prostate cancer angiogenesis and lymphangiogenesis. *Oncotarget*, **2013**, 4, 1844-55	5.3	35
139	Membrane Curvature and Tension Control the Formation and Collapse of Caveolar Superstructures. *Developmental Cell*, **2019**, 48, 523-538.e4	10.2	35
138	And still they are moving.... dynamic properties of caveolae. *FEBS Letters*, **1996**, 389, 52-4	3.8	34
137	Diet-induced hypercholesterolemia promotes androgen-independent prostate cancer metastasis via IQGAP1 and caveolin-1. *Oncotarget*, **2015**, 6, 7438-53	3.3	34
136	High-density lipoprotein inhibits human M1 macrophage polarization through redistribution of caveolin-1. *British Journal of Pharmacology*, **2016**, 173, 741-51	8.6	34
135	Caveolae: The FAQs. *Traffic*, **2020**, 21, 181-185	5.7	34
134	Cell-free formation and interactome analysis of caveolae. *Journal of Cell Biology*, **2018**, 217, 2141-2165	7.3	33
133	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
132	Reduced plasma membrane expression of dysferlin mutants is attributed to accelerated endocytosis via a syntaxin-4-associated pathway. *Journal of Biological Chemistry*, **2010**, 285, 28529-39	5.4	33
131	Analysis of the role of p200-containing vesicles in post-Golgi traffic. *Molecular Biology of the Cell*, **1996**, 7, 961-74	3.5	33
130	An RPTPα/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
129	Caveolin-1 deficiency leads to increased susceptibility to cell death and fibrosis in white adipose tissue: characterization of a lipodystrophic model. *PLoS ONE*, **2012**, 7, e46242	3.7	32
128	Patched1 is required in neural crest cells for the prevention of orofacial clefts. *Human Molecular Genetics*, **2013**, 22, 5026-35	5.6	31
127	Centrobin regulates the assembly of functional mitotic spindles. *Oncogene*, **2010**, 29, 2649-58	9.2	30
126	Reassessing the role of phosphocaveolin-1 in cell adhesion and migration. *Traffic*, **2007**, 8, 1695-1705	5.7	30
125	Identification of intracellular cavin target proteins reveals cavin-PP1alpha interactions regulate apoptosis. *Nature Communications*, **2019**, 10, 3279	17.4	29
124	Therapeutic levels of the hydroxmethylglutaryl-coenzyme A reductase inhibitor lovastatin activate ras signaling via phospholipase D2. *Molecular and Cellular Biology*, **2011**, 31, 1110-20	4.8	29
123	Transcytosis of the polymeric immunoglobulin receptor in cultured hippocampal neurons. *Current Biology*, **1993**, 3, 635-44	6.3	29

122	SnapShot: caveolae, caveolins, and cavins. *Cell*, **2013**, 154, 704-704.e1	56.2	28
121	Caveolae meet endosomes: a stable relationship?. *Developmental Cell*, **2004**, 7, 458-60	10.2	27
120	An Abl-FBP17 mechanosensing system couples local plasma membrane curvature and stress fiber remodeling during mechanoadaptation. *Nature Communications*, **2019**, 10, 5828	17.4	27
119	Ultrastructural localisation of protein interactions using conditionally stable nanobodies. *PLoS Biology*, **2018**, 16, e2005473	9.7	27
118	Caveolae control the anti-inflammatory phenotype of senescent endothelial cells. *Aging Cell*, **2015**, 14, 102-11	9.9	26
117	Oligomerization and endocytosis of Hedgehog is necessary for its efficient exovesicular secretion. *Molecular Biology of the Cell*, **2015**, 26, 4700-17	3.5	26
116	Spatiotemporal regulation of early lipolytic signaling in adipocytes. *Journal of Biological Chemistry*, **2009**, 284, 32097-107	5.4	26
115	Human immune cell targeting of protein nanoparticles--caveospheres. *Nanoscale*, **2016**, 8, 8255-65	7.7	26
114	Resolution of Novel Pancreatic Ductal Adenocarcinoma Subtypes by Global Phosphotyrosine Profiling. *Molecular and Cellular Proteomics*, **2016**, 15, 2671-85	7.6	25
113	Quantitative proteomic analysis of the adipocyte plasma membrane. *Journal of Proteome Research*, **2011**, 10, 4970-82	5.6	25
112	Caveolae Control Contractile Tension for Epithelia to Eliminate Tumor Cells. *Developmental Cell*, **2020**, 54, 75-91.e7	10.2	24
111	Role of SNX16 in the dynamics of tubulo-cisternal membrane domains of late endosomes. *PLoS ONE*, **2011**, 6, e21771	3.7	24
110	Plasticity of early endosomes. *Journal of Cell Science*, **1992**, 103 (Pt 2), 335-48	5.3	24
109	Nanomolar oligomerization and selective co-aggregation of □synuclein pathogenic mutants revealed by single-molecule fluorescence. *Scientific Reports*, **2016**, 6, 37630	4.9	24
108	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
107	Design and application of in vivo FRET biosensors to identify protein prenylation and nanoclustering inhibitors. *Chemistry and Biology*, **2012**, 19, 866-74		23
106	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
105	Protein targeting to the plasma membrane of adult skeletal muscle fiber: an organized mosaic of functional domains. *Experimental Cell Research*, **2001**, 267, 61-72	4.2	22

104	Tyrosine dephosphorylated cortactin downregulates contractility at the epithelial zonula adherens through SRGAP1. *Nature Communications*, **2017**, 8, 790	17.4	21
103	Modern approaches for ultrastructural analysis of the zebrafish embryo. *Methods in Cell Biology*, **2010**, 96, 425-42	1.8	21
102	Characterization of Rab23, a negative regulator of sonic hedgehog signaling. *Methods in Enzymology*, **2005**, 403, 759-77	1.7	21
101	Caveolae and lipid sorting: Shaping the cellular response to stress. *Journal of Cell Biology*, **2020**, 219,	7.3	21
100	SNX12 role in endosome membrane transport. *PLoS ONE*, **2012**, 7, e38949	3.7	20
99	Caveolins/caveolae protect adipocytes from fatty acid-mediated lipotoxicity. *Journal of Lipid Research*, **2011**, 52, 1526-32	6.3	20
98	Faceted polymersomes: a sphere-to-polyhedron shape transformation. *Chemical Science*, **2019**, 10, 2725-2731	9.4	19
97	Caveolin and Ras function. *Methods in Enzymology*, **2001**, 333, 172-83	1.7	19
96	Development of a human skeletal micro muscle platform with pacing capabilities. *Biomaterials*, **2019**, 198, 217-227	15.6	19
95	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
94	Annexin A6 regulates interleukin-2-mediated T-cell proliferation. *Immunology and Cell Biology*, **2016** , 94, 543-53	5	18
93	RhoD participates in the regulation of cell-cycle progression and centrosome duplication. *Oncogene* , **2013**, 32, 1831-42	9.2	18
92	Heterofibrins: inhibitors of lipid droplet formation from a deep-water southern Australian marine sponge, Spongia (Heterofibria) sp. *Organic and Biomolecular Chemistry*, **2010**, 8, 3188-94	3.9	18
91	Non-caveolar caveolins - duties outside the caves. *Journal of Cell Science*, **2020**, 133,	5.3	17
90	Mechanoprotection by skeletal muscle caveolae. *Bioarchitecture*, **2016**, 6, 22-7		17
89	Reactivation of Myc transcription in the mouse heart unlocks its proliferative capacity. *Nature Communications*, **2020**, 11, 1827	17.4	17
88	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
87	Mechanotransduction activates RhoA in the neighbors of apoptotic epithelial cells to engage apical extrusion. *Current Biology*, **2021**, 31, 1326-1336.e5	6.3	16

86	Non-caveolar caveolin-1 expression in prostate cancer cells promotes lymphangiogenesis. *Oncoscience*, **2015**, 2, 635-45	0.8	15
85	Ascidian caveolin induces membrane curvature and protects tissue integrity and morphology during embryogenesis. *FASEB Journal*, **2020**, 34, 1345-1361	0.9	15
84	Lipid droplets, bioenergetic fluxes, and metabolic flexibility. *Seminars in Cell and Developmental Biology*, **2020**, 108, 33-46	7.5	14
83	Endocytosis in polarized cells. *Seminars in Cell Biology*, **1991**, 2, 387-95		14
82	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
81	Population distribution analyses reveal a hierarchy of molecular players underlying parallel endocytic pathways. *PLoS ONE*, **2014**, 9, e100554	3.7	13
80	A novel form of ataxia oculomotor apraxia characterized by oxidative stress and apoptosis resistance. *Cell Death and Differentiation*, **2007**, 14, 1149-61	12.7	13
79	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
78	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
77	In vivo proteomic mapping through GFP-directed proximity-dependent biotin labelling in zebrafish. *ELife*, **2021**, 10,	8.9	13
76	Laser-mediated rupture of chlamydial inclusions triggers pathogen egress and host cell necrosis. *Nature Communications*, **2017**, 8, 14729	17.4	12
75	A variable undecad repeat domain in cavin1 regulates caveola formation and stability. *EMBO Reports*, **2018**, 19,	6.5	12
74	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
73	Correlative light and electron microscopic detection of GFP-labeled proteins using modular APEX. *Methods in Cell Biology*, **2017**, 140, 105-121	1.8	11
72	Rapid processing of filter-grown cells for Epon embedding. *Journal of Histochemistry and Cytochemistry*, **1995**, 43, 731-3	3.4	11
71	Key phases in the formation of caveolae. *Current Opinion in Cell Biology*, **2021**, 71, 7-14	9	11
70	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
69	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

68	Cargo-specific recruitment in clathrin- and dynamin-independent endocytosis. *Nature Cell Biology*, **2021**, 23, 1073-1084	23.4	10
67	In vivo cell biological screening identifies an endocytic capture mechanism for T-tubule formation. *Nature Communications*, **2020**, 11, 3711	17.4	10
66	Endocytosis in the kidney: insights from the MDCK cell system. *Seminars in Nephrology*, **1991**, 11, 440-52	4.8	9
65	Examination of the subsarcolemmal tubular system of mammalian skeletal muscle fibers. *Biophysical Journal*, **2013**, 104, L19-21	2.9	8
64	A robust method for particulate detection of a genetic tag for 3D electron microscopy. *ELife*, **2021**, 10,	8.9	8
63	Caveolin-1 and cavin1 act synergistically to generate a unique lipid environment in caveolae. *Journal of Cell Biology*, **2021**, 220,	7.3	8
62	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
61	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
60	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
59	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
58	An inverted CAV1 (caveolin 1) topology defines novel autophagy-dependent exosome secretion from prostate cancer cells. *Autophagy*, **2021**, 17, 2200-2216	10.2	7
57	Nicotinamide riboside attenuates age-associated metabolic and functional changes in hematopoietic stem cells. *Nature Communications*, **2021**, 12, 2665	17.4	7
56	Colocation of Tpm3.1 and myosin IIa heads defines a discrete subdomain in stress fibres. *Journal of Cell Science*, **2019**, 132,	5.3	7
55	Formation of retromer transport carriers is disrupted by the Parkinson disease-linked Vps35 D620N variant. *Traffic*, **2021**, 22, 123-136	5.7	7
54	The membrane environment of cadherin adhesion receptors: a working hypothesis. *Biochemical Society Transactions*, **2019**, 47, 985-995	5.1	6
53	Comparison of the binding characteristics of two different preparations of tetanus toxin to rat brain membranes. *Toxicon*, **1989**, 27, 127-35	2.8	6
52	Caveolin-1-driven membrane remodelling regulates hnRNPK-mediated exosomal microRNA sorting in cancer. *Clinical and Translational Medicine*, **2021**, 11, e381	5.7	6
51	Cavin1 intrinsically disordered domains are essential for fuzzy electrostatic interactions and caveola formation. *Nature Communications*, **2021**, 12, 931	17.4	6

50	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
49	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
48	High-throughput screening of Australian marine organism extracts for bioactive molecules affecting the cellular storage of neutral lipids. *PLoS ONE*, **2011**, 6, e22868	3.7	5
47	Phosphorylation of PKCδ by FER tips the balance from EGFR degradation to recycling. *Journal of Cell Biology*, **2021**, 220,	7.3	5
46	Impaired endoplasmic reticulum-mitochondrial signaling in ataxia-telangiectasia. *IScience*, **2021**, 24, 101972	6.1	5
45	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
44	Caveolin 1 restricts Group A Streptococcus invasion of nonphagocytic host cells. *Cellular Microbiology*, **2017**, 19, e12772	3.9	4
43	Nanoscape, a data-driven 3D real-time interactive virtual cell environment. *ELife*, **2021**, 10,	8.9	4
42	Lipid droplets and the host-pathogen dynamic: FATal attraction?. *Journal of Cell Biology*, **2021**, 220,	7.3	4
41	A plasmid library of full-length zebrafish rab proteins for cell biology. *Cellular Logistics*, **2017**, 7, e1301151		3
40	Mapping Interactions among Cell-Free Expressed Zika Virus Proteins. *Journal of Proteome Research*, **2020**, 19, 1522-1532	5.6	3
39	Normalization of protein at different stages in SILAC subcellular proteomics affects functional analysis. *Journal of Integrated OMICS*, **2012**, 2,	0.5	3
38	Caves and labyrinths: caveolae and transverse tubules in skeletal muscle. *Protoplasma*, **2000**, 212, 15-23	3.4	3
37	Seeing and believing: recent advances in imaging cell-cell interactions. *F1000Research*, **2015**, 4, 273	3.6	3
36	Cavin4 interacts with Bin1 to promote T-tubule formation and stability in developing skeletal muscle. *Journal of Cell Biology*, **2021**, 220,	7.3	3
35	Cargo-specific recruitment in clathrin and dynamin-independent endocytosis		3
34	Piezo1 Induces Local Curvature in a Mammalian Membrane and Forms Specific Protein-Lipid Interactions		3
33	HSV infection of polarized epithelial cells on filter supports: implications for transport assays and protein localization. *European Journal of Cell Biology*, **1997**, 72, 278-81	6.1	3

32	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
31	The RhoD to centrosomal duplication. *Small GTPases*, **2013**, 4, 116-22	2.7	2
30	Which Ras rides the raft? - Reply. *Nature Cell Biology*, **2001**, 3, E172-E172	23.4	2
29	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
28	High intraluminal pressure promotes vascular inflammation via caveolin-1. *Scientific Reports*, **2021**, 11, 5894	4.9	2
27	Author response: A robust method for particulate detection of a genetic tag for 3D electron microscopy **2021**,		2
26	Cavin3 released from caveolae interacts with BRCA1 to regulate the cellular stress response. *ELife*, **2021**, 10,	8.9	2
25	Twenty years of traffic: A 2020 vision of cellular electron microscopy. *Traffic*, **2020**, 21, 156-161	5.7	2
24	Myosin Vb is required for correct trafficking of N-cadherin and cardiac chamber ballooning. *Developmental Dynamics*, **2019**, 248, 284-295	2.9	1
23	New Transgenic Lines for Localization of GFP-Tagged Proteins by Electron Microscopy. *Zebrafish*, **2016**, 13, 232-3	2	1
22	ContactJ: Lipid droplets-mitochondria contacts characterization through fluorescence microscopy and image analysis.. *F1000Research*, **2021**, 10, 263	3.6	1
21	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
20	An anaplerotic approach to correct the mitochondrial dysfunction in ataxia-telangiectasia (A-T). *Molecular Metabolism*, **2021**, 54, 101354	8.8	1
19	Dissecting the nanoscale lipid profile of caveolae		1
18	Caveolae set levels of epithelial monolayer tension to eliminate tumor cells		1
17	Cavin1 intrinsically disordered domains are essential for fuzzy electrostatic interactions and caveola formation		1
16	Caveolin-1 influences epithelial collective cell migration via FMNL2 formin. *Biology of the Cell*, **2021**, 113, 107-117	3.5	1
15	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

14	ContactJ: Characterization of lipid droplet-mitochondrial contacts using fluorescence microscopy and image analysis. *F1000Research*,10, 263	3.6	0
13	Endocytosis in MDCK Cells **1992**, 317-324		0
12	Proximity Dependent Biotin Labelling in Zebrafish for Proteome and Interactome Profiling. *Bio-protocol*, **2021**, 11, e4178	0.9	0
11	Live Confocal Imaging of Zebrafish Notochord Cells Under Mechanical Stress In Vivo. *Methods in Molecular Biology*, **2020**, 2169, 175-187	1.4	0
10	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
9	The structure of caveolin finally takes shape.. *Science Advances*, **2022**, 8, eabq6985	14.3	0
8	Epithelial Mechanosensing at Cell-Cell Contacts and Tight Junctions **2022**, 27-50		0
7	Detection of GFP-labeled Proteins by Electron Microscopy. *Microscopy and Microanalysis*, **2015**, 21, 531-532	3.5	
6	Involvement of the transmembrane protein p23 in biosynthetic protein transport. *Biology of the Cell*, **1998**, 90, 122-122	3.5	
5	Hybrid organic-inorganic nanoparticles: controlled incorporation of gold nanoparticles into virus-like particles and application in surface-enhanced Raman spectroscopy **2006**, 6413, 123		
4	Axonal and dendritic endocytic pathways in cultured neurons. *Micron and Microscopica Acta*, **1992**, 23, 113-114		
3	Regulation of Endocytosis by the Small GTP-ASE RAB5 **1993**, 377-385		
2	CLIP-170, a Cytoplasmic Linker Protein Mediating Interaction of Endosomes with Microtubules **1993**, 145-157		
1	Caveolae regulate the nanoscale organization of the plasma membrane to remotely control Ras signaling. *Journal of General Physiology*, **2014**, 143, 1434OIA10	3.4	