

# Philippe Chavrier

## List of Publications by Year in descending order

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121  
papers

16,488  
citations

20817

60  
h-index

20358

116  
g-index

131  
all docs

131  
docs citations

131  
times ranked

17358  
citing authors

#	ARTICLE	IF	CITATIONS
1	ARF proteins: roles in membrane traffic and beyond. <i>Nature Reviews Molecular Cell Biology</i> , 2006, 7, 347-358.	37.0	1,244
2	Localization of low molecular weight GTP binding proteins to exocytic and endocytic compartments. <i>Cell</i> , 1990, 62, 317-329.	28.9	1,122
3	rab5 controls early endosome fusion in vitro. <i>Cell</i> , 1991, 64, 915-925.	28.9	1,020
4	Collective migration of an epithelial monolayer in response to a model wound. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15988-15993.	7.1	759
5	Force mapping in epithelial cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2390-2395.	7.1	686
6	ARF6-Regulated Shedding of Tumor Cell-Derived Plasma Membrane Microvesicles. <i>Current Biology</i> , 2009, 19, 1875-1885.	3.9	657
7	Segment-specific expression of a zinc-finger gene in the developing nervous system of the mouse. <i>Nature</i> , 1989, 337, 461-464.	27.8	513
8	Protein interaction mapping: A <i>Drosophila</i> case study. <i>Genome Research</i> , 2005, 15, 376-384.	5.5	509
9	The role of ARF and Rab GTPases in membrane transport. <i>Current Opinion in Cell Biology</i> , 1999, 11, 466-475.	5.4	455
10	Matrix invasion by tumour cells: a focus on MT1-MMP trafficking to invadopodia. <i>Journal of Cell Science</i> , 2009, 122, 3015-3024.	2.0	422
11	Hypervariable C-terminal domain of rab proteins acts as a targeting signal. <i>Nature</i> , 1991, 353, 769-772.	27.8	386
12	Both Epstein-Barr virus (EBV)-encoded trans-acting factors, EB1 and EB2, are required to activate transcription from an EBV early promoter. <i>EMBO Journal</i> , 1986, 5, 3243-9.	7.8	313
13	Function of Rho family proteins in actin dynamics during phagocytosis and engulfment. <i>Nature Cell Biology</i> , 2000, 2, E191-E196.	10.3	284
14	The interaction of IQGAP1 with the exocyst complex is required for tumor cell invasion downstream of Cdc42 and RhoA. <i>Journal of Cell Biology</i> , 2008, 181, 985-998.	5.2	260
15	EFA6, a sec7 domain-containing exchange factor for ARF6, coordinates membrane recycling and actin cytoskeleton organization. <i>EMBO Journal</i> , 1999, 18, 1480-1491.	7.8	259
16	Contractility of the cell rear drives invasion of breast tumor cells in 3D Matrigel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1943-1948.	7.1	254
17	Phosphatidylinositol-4,5-bisphosphate hydrolysis directs actin remodeling during phagocytosis. <i>Journal of Cell Biology</i> , 2005, 169, 139-149.	5.2	227
18	Fc receptor-mediated phagocytosis requires CDC42 and Rac1. <i>EMBO Journal</i> , 1998, 17, 6219-6229.	7.8	223

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19	Ras, Rap, and Rac Small GTP-binding Proteins Are Targets for Clostridium sordellii Lethal Toxin Glucosylation. Journal of Biological Chemistry, 1996, 271, 10217-10224.	3.4	202
20	Cellular and Molecular Mechanisms of MT1-MMP-Dependent Cancer Cell Invasion. Annual Review of Cell and Developmental Biology, 2016, 32, 555-576.	9.4	188
21	MT1-MMP-Dependent Invasion Is Regulated by TI-VAMP/VAMP7. Current Biology, 2008, 18, 926-931.	3.9	186
22	ARF6 controls post-endocytic recycling through its downstream exocyst complex effector. Journal of Cell Biology, 2003, 163, 1111-1121.	5.2	185
23	TI-VAMP/VAMP7 is required for optimal phagocytosis of opsonised particles in macrophages. EMBO Journal, 2004, 23, 4166-4176.	7.8	185
24	ARF6 Interacts with JIP4 to Control a Motor Switch Mechanism Regulating Endosome Traffic in Cytokinesis. Current Biology, 2009, 19, 184-195.	3.9	184
25	Diaphanous-Related Formins Are Required for Invadopodia Formation and Invasion of Breast Tumor Cells. Cancer Research, 2009, 69, 2792-2800.	0.9	175
26	ADP ribosylation factor 6 is activated and controls membrane delivery during phagocytosis in macrophages. Journal of Cell Biology, 2003, 161, 1143-1150.	5.2	173
27	Endosomal WASH and exocyst complexes control exocytosis of MT1-MMP at invadopodia. Journal of Cell Biology, 2013, 203, 1063-1079.	5.2	162
28	Cdc42 localization and cell polarity depend on membrane traffic. Journal of Cell Biology, 2010, 191, 1261-1269.	5.2	156
29	Actin dynamics during phagocytosis. Seminars in Immunology, 2001, 13, 347-355.	5.6	153
30	Golgi-localized GAP for Cdc42 functions downstream of ARF1 to control Arp2/3 complex and F-actin dynamics. Nature Cell Biology, 2005, 7, 353-364.	10.3	153
31	Cell-to-cell heterogeneity of EWSR1-FLI1 activity determines proliferation/migration choices in Ewing sarcoma cells. Oncogene, 2017, 36, 3505-3514.	5.9	153
32	Regulated delivery of molecular cargo to invasive tumour-derived microvesicles. Nature Communications, 2015, 6, 6919.	12.8	151
33	Inducible recruitment of Cdc42 or WASP to a cell-surface receptor triggers actin polymerization and filopodium formation. Current Biology, 1999, 9, 351-361.	3.9	149
34	Rab17, a novel small GTPase, is specific for epithelial cells and is induced during cell polarization.. Journal of Cell Biology, 1993, 121, 553-564.	5.2	132
35	Implication of Metastasis Suppressor <i>NM23-H1</i> in Maintaining Adherens Junctions and Limiting the Invasive Potential of Human Cancer Cells. Cancer Research, 2010, 70, 7710-7722.	0.9	132
36	Nucleoside diphosphate kinases fuel dynamin superfamily proteins with GTP for membrane remodeling. Science, 2014, 344, 1510-1515.	12.6	130

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37	RalB Mobilizes the Exocyst To Drive Cell Migration. <i>Molecular and Cellular Biology</i> , 2006, 26, 727-734.	2.3	129
38	Signaling and membrane dynamics during phagocytosis: many roads lead to the phagos(R)ome. <i>Current Opinion in Cell Biology</i> , 2004, 16, 422-428.	5.4	127
39	ARF6 and JIP3/4 regulate endosomal tubules for MT1-MMP exocytosis in cancer invasion. <i>Journal of Cell Biology</i> , 2015, 211, 339-358.	5.2	126
40	The complexity of the Rab and Rho GTP-binding protein subfamilies revealed by a PCR cloning approach. <i>Gene</i> , 1992, 112, 261-264.	2.2	119
41	Spontaneous Contractility-Mediated Cortical Flow Generates Cell Migration in Three-Dimensional Environments. <i>Biophysical Journal</i> , 2011, 101, 1041-1045.	0.5	119
42	A Role for Mammalian Diaphanous-Related Formins in Complement Receptor (CR3)-Mediated Phagocytosis in Macrophages. <i>Current Biology</i> , 2005, 15, 2007-2012.	3.9	117
43	Endocytic traffic in animal cell cytokinesis. <i>Current Opinion in Cell Biology</i> , 2008, 20, 454-461.	5.4	116
44	Reconstituted Killer Cell Inhibitory Receptors for Major Histocompatibility Complex Class I Molecules Control Mast Cell Activation Induced via Immunoreceptor Tyrosine-based Activation Motifs. <i>Journal of Biological Chemistry</i> , 1997, 272, 8989-8996.	3.4	111
45	Compromised nuclear envelope integrity drives TREX1-dependent DNA damage and tumor cell invasion. <i>Cell</i> , 2021, 184, 5230-5246.e22.	28.9	109
46	A WASp-VASP complex regulates actin polymerization at the plasma membrane. <i>EMBO Journal</i> , 2001, 20, 5603-5614.	7.8	100
47	Tyrosine phosphorylation of the Wiskott-Aldrich Syndrome protein by Lyn and Btk is regulated by CDC42. <i>FEBS Letters</i> , 1998, 434, 431-436.	2.8	98
48	Î±TAT1 catalyses microtubule acetylation at clathrin-coated pits. <i>Nature</i> , 2013, 502, 567-570.	27.8	95
49	LINC complex-Lis1 interplay controls MT1-MMP matrix digest-on-demand response for confined tumor cell migration. <i>Nature Communications</i> , 2018, 9, 2443.	12.8	91
50	Spermatocyte cytokinesis requires rapid membrane addition mediated by ARF6 on central spindle recycling endosomes. <i>Development (Cambridge)</i> , 2007, 134, 4437-4447.	2.5	90
51	ARNO3, a Sec7-domain guanine nucleotide exchange factor for ADP ribosylation factor 1, is involved in the control of Golgi structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9926-9931.	7.1	88
52	Structural basis for ARF1-mediated recruitment of ARHGAP21 to Golgi membranes. <i>EMBO Journal</i> , 2007, 26, 1953-1962.	7.8	86
53	A conserved C-terminal domain of EFA6-family ARF6-guanine nucleotide exchange factors induces lengthening of microvilli-like membrane protrusions. <i>Journal of Cell Science</i> , 2002, 115, 2867-2879.	2.0	84
54	ATAT1/MEC-17 acetyltransferase and HDAC6 deacetylase control a balance of acetylation of alpha-tubulin and cortactin and regulate MT1-MMP trafficking and breast tumor cell invasion. <i>European Journal of Cell Biology</i> , 2012, 91, 950-960.	3.6	83

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55	Impaired PRC2 activity promotes transcriptional instability and favors breast tumorigenesis. <i>Genes and Development</i> , 2015, 29, 2547-2562.	5.9	77
56	MT1-MMP directs force-producing proteolytic contacts that drive tumor cell invasion. <i>Nature Communications</i> , 2019, 10, 4886.	12.8	77
57	Control of MT1-MMP transport by atypical PKC during breast-cancer progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1872-9.	7.1	76
58	p63/MT1-MMP axis is required for in situ to invasive transition in basal-like breast cancer. <i>Oncogene</i> , 2016, 35, 344-357.	5.9	76
59	HDAC6 is required for invadopodia activity and invasion by breast tumor cells. <i>European Journal of Cell Biology</i> , 2011, 90, 128-135.	3.6	74
60	The Epstein-Barr virus (EBV) early promoter DR contains a cis-acting element responsive to the EBV transactivator EB1 and an enhancer with constitutive and inducible activities. <i>Journal of Virology</i> , 1989, 63, 607-614.	3.4	74
61	RAB2A controls MT1-MMP endocytic and E-cadherin polarized Golgi trafficking to promote invasive breast cancer programs. <i>EMBO Reports</i> , 2016, 17, 1061-1080.	4.5	72
62	The structural basis of Arf effector specificity: the crystal structure of ARF6 in a complex with JIP4. <i>EMBO Journal</i> , 2009, 28, 2835-2845.	7.8	68
63	A conserved C-terminal domain of EFA6-family ARF6-guanine nucleotide exchange factors induces lengthening of microvilli-like membrane protrusions. <i>Journal of Cell Science</i> , 2002, 115, 2867-79.	2.0	68
64	The segment-specific gene Krox-20 encodes a transcription factor with binding sites in the promoter region of the Hox-1.4 gene. <i>EMBO Journal</i> , 1990, 9, 1209-18.	7.8	61
65	ARF6 GTPase controls bacterial invasion by actin remodelling. <i>Journal of Cell Science</i> , 2005, 118, 2201-2210.	2.0	59
66	Differential properties of D4/LyGDI versus RhoGDI: phosphorylation and rho GTPase selectivity. <i>FEBS Letters</i> , 1998, 422, 269-273.	2.8	58
67	Decoupling of Activation and Effector Binding Underlies ARF6 Priming of Fast Endocytic Recycling. <i>Current Biology</i> , 2011, 21, 574-579.	3.9	55
68	LIMK Regulates Tumor-Cell Invasion and Matrix Degradation Through Tyrosine Phosphorylation of MT1-MMP. <i>Scientific Reports</i> , 2016, 6, 24925.	3.3	54
69	Proteasome-mediated Degradation of Rac1-GTP during Epithelial Cell Scattering. <i>Molecular Biology of the Cell</i> , 2006, 17, 2236-2242.	2.1	52
70	V-ATPase: a potential pH sensor. <i>Nature Cell Biology</i> , 2006, 8, 107-109.	10.3	51
71	AP-1 and ARF1 Control Endosomal Dynamics at Sites of Fc $\gamma$ -mediated Phagocytosis. <i>Molecular Biology of the Cell</i> , 2007, 18, 4921-4931.	2.1	51
72	Selective Rac1 inhibition in dendritic cells diminishes apoptotic cell uptake and cross-presentation in vivo. <i>Blood</i> , 2005, 105, 742-749.	1.4	43

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73	Protrudin-mediated ERâ€“endosome contact sites promote MT1-MMP exocytosis and cell invasion. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	43
74	ARF1-mediated actin polymerization produces movement of artificial vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16928-16933.	7.1	42
75	[37] Localization of Rab family members in animal cells. <i>Methods in Enzymology</i> , 1992, 219, 398-407.	1.0	40
76	Cell polarity during motile processes: keeping on track with the exocyst complex. <i>Biochemical Journal</i> , 2011, 433, 403-409.	3.7	39
77	Phagocytosis of immunoglobulin-coated emulsion droplets. <i>Biomaterials</i> , 2015, 51, 270-277.	11.4	37
78	Characterization of a Monoclonal Antibody Specific for the Ras-Related GTP-Binding Protein Rho A. <i>Biochemical and Biophysical Research Communications</i> , 1993, 196, 1522-1528.	2.1	36
79	ARF6 Promotes the Formation of Rac1 and WAVE-Dependent Ventral F-Actin Rosettes in Breast Cancer Cells in Response to Epidermal Growth Factor. <i>PLoS ONE</i> , 2015, 10, e0121747.	2.5	36
80	Coronin 1C promotes triple-negative breast cancer invasiveness through regulation of MT1-MMP traffic and invadopodia function. <i>Oncogene</i> , 2018, 37, 6425-6441.	5.9	36
81	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017, 6, 724.	1.6	36
82	Consortin, a trans-Golgi network cargo receptor for the plasma membrane targeting and recycling of connexins. <i>Human Molecular Genetics</i> , 2010, 19, 262-275.	2.9	35
83	AMOTL1 Promotes Breast Cancer Progression and Is Antagonized by Merlin. <i>Neoplasia</i> , 2016, 18, 10-24.	5.3	31
84	MT1-MMP targeting to endolysosomes is mediated by flotillin upregulation. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	29
85	Toward a Structural Understanding of Arf Family:Effector Specificity. <i>Structure</i> , 2010, 18, 1552-1558.	3.3	27
86	The advantage of channeling nucleotides for very processive functions. <i>F1000Research</i> , 2017, 6, 724.	1.6	27
87	ARF6, PI3-kinase and host cell actin cytoskeleton in <i>Toxoplasma gondii</i> cell invasion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 656-661.	2.1	25
88	Tissue remodeling by invadosomes. <i>Faculty Reviews</i> , 2021, 10, 39.	3.9	24
89	Early endosome membrane dynamics characterized by flow cytometry. , 1997, 29, 41-49.		23
90	Intersection of TKS5 and FGD1/CDC42 signaling cascades directs the formation of invadopodia. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	23

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91	Exo70 Subunit of the Exocyst Complex Is Involved in Adhesion-Dependent Trafficking of Caveolin-1. <i>PLoS ONE</i> , 2012, 7, e52627.	2.5	21
92	An immunologist's look at the Rho and Rab GTP-binding proteins. <i>Trends in Immunology</i> , 1993, 14, 440-444.	7.5	20
93	Nucleusâ€“Invadopodia Duo During Cancer Invasion. <i>Trends in Cell Biology</i> , 2019, 29, 93-96.	7.9	20
94	Metastasis-suppressor NME1 controls the invasive switch of breast cancer by regulating MT1-MMP surface clearance. <i>Oncogene</i> , 2021, 40, 4019-4032.	5.9	19
95	A NUMBâ€“EFA6â€“ARF6 recycling route controls apically restricted cell protrusions and mesenchymal motility. <i>Journal of Cell Biology</i> , 2018, 217, 3161-3182.	5.2	18
96	Characterization of a Lysozyme-Major Histocompatibility Complex Class II Molecule-loading Compartment as a Specialized Recycling Endosome in Murine B Lymphocytes. <i>Journal of Biological Chemistry</i> , 1996, 271, 27360-27365.	3.4	17
97	[29] Expression, purification, and biochemical properties of EFA6, a Sec7 domain-containing guanine exchange factor for ADP-ribosylation factor 6 (ARF6). <i>Methods in Enzymology</i> , 2001, 329, 272-279.	1.0	17
98	aPKCi triggers basal extrusion of luminal mammary epithelial cells by tuning contractility and vinculin localization at cell junctions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24108-24114.	7.1	16
99	Construction and use of cDNA clones for the mapping and identification of Epstein-Barr virus early P3HR-1 mRNAs. <i>Journal of Virology</i> , 1985, 54, 608-614.	3.4	15
100	Endosome positioning during cytokinesis. <i>Biochemical Society Transactions</i> , 2008, 36, 442-443.	3.4	14
101	Sequence of a canine cDNA clone encoding a Ran/TC4 GTP-binding protein. <i>Gene</i> , 1992, 120, 325-326.	2.2	13
102	LIN7A is a major determinant of cell-polarity defects in breast carcinomas. <i>Breast Cancer Research</i> , 2016, 18, 23.	5.0	13
103	Microfabricated arrays of elastomeric posts to study cellular mechanics. , 2004, 5345, 26.		11
104	Inducible membrane recruitment of small GTP-binding proteins by rapamycin-based system in living cells. <i>Methods in Enzymology</i> , 2000, 325, 285-295.	1.0	10
105	The O-Chain of <i>Brucella abortus</i> Lipopolysaccharide Induces SDS-Resistant MHC Class II Molecules in Mouse B Cells. <i>Biochemical and Biophysical Research Communications</i> , 1994, 203, 1230-1236.	2.1	9
106	mTOR Repression in Response to Amino Acid Starvation Promotes ECM Degradation Through MT1â€“MMP Endocytosis Arrest. <i>Advanced Science</i> , 2021, 8, e2101614.	11.2	9
107	Mouse metanephric kidney as a model system for identifying developmentally regulated genes. <i>Journal of Cellular Physiology</i> , 1997, 173, 147-151.	4.1	7
108	May the force be with you: Myosin-X in phagocytosis. <i>Nature Cell Biology</i> , 2002, 4, E169-E171.	10.3	7

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109	Abscission accomplished by PtdIns(3)P. <i>Nature Cell Biology</i> , 2010, 12, 308-310.	10.3	7
110	Triple association of CDC25-, Dbl- and Sec7-related domains in mammalian guanine-nucleotide-exchange factors. <i>Trends in Biochemical Sciences</i> , 1998, 23, 472-473.	7.5	6
111	Molecular basis of phagocytosis. <i>Seminars in Immunology</i> , 2001, 13, 337-338.	5.6	4
112	Social networking in tumor cell communities is associated with increased aggressiveness. <i>Intravital</i> , 2016, 5, e1112476.	2.0	2
113	A new pipeline for pathophysiological analysis of the mammary gland based on organoid transplantation and organ clearing. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	2
114	Regulation of Protein Trafficking by GTP-Binding Proteins. , 2009, , 342-362.		1
115	Author correction: Triple association of CDC25-, Dbl- and Sec7-related domains in mammalian guanine nucleotide exchange factors. <i>Trends in Biochemical Sciences</i> , 1999, 24, 178.	7.5	0
116	Regulation and Function of the Small GTP-Binding Protein ARF6 in Membrane Dynamics. , 0, , 165-174.		0
117	Mitochondrial NM23-H4/NDP $\kappa$ -D is Multifunctional: Fueling Mitochondrial GTPase OPA1 and Triggering Mitophagy. <i>Biophysical Journal</i> , 2015, 108, 369a.	0.5	0
118	Mitochondrial quality control and dynamics: NM23-H4 supports cardiolipin-linked mitophagy signaling and GTP-fueling to OPA1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, e26.	1.0	0
119	Localization of rab Proteins. , 1991, , 253-262.		0
120	Abstract LB-30: Membrane-anchored MT1-MMP downstream of p63 is essential for the transition of in situ to invasive breast carcinoma. , 2014, , .		0
121	ARF6 $\hat{=}$ JIP3/4 regulate endosomal tubules for MT1-MMP exocytosis in cancer invasion. <i>Journal of Experimental Medicine</i> , 2015, 212, 212120IA101.	8.5	0