

# Johanna Ivaska

## List of Publications by Citations

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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.

130  
papers

9,722  
citations

55  
h-index

97  
g-index

153  
ext. papers

11,609  
ext. citations

10.9  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
130	CIP2A inhibits PP2A in human malignancies. <i>Cell</i> , <b>2007</b> , 130, 51-62	56.2	591
129	Novel functions of vimentin in cell adhesion, migration, and signaling. <i>Experimental Cell Research</i> , <b>2007</b> , 313, 2050-62	4.2	532
128	Every step of the way: integrins in cancer progression and metastasis. <i>Nature Reviews Cancer</i> , <b>2018</b> , 18, 533-548	31.3	514
127	Integrins as biomechanical sensors of the microenvironment. <i>Nature Reviews Molecular Cell Biology</i> , <b>2019</b> , 20, 457-473	48.7	367
126	Filopodia in cell adhesion, 3D migration and cancer cell invasion. <i>Current Opinion in Cell Biology</i> , <b>2015</b> , 36, 23-31	9	298
125	Integrin-mediated cell adhesion to type I collagen fibrils. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 31956-63	5.63	260
124	Small GTPase Rab21 regulates cell adhesion and controls endosomal traffic of beta1-integrins. <i>Journal of Cell Biology</i> , <b>2006</b> , 173, 767-80	7.3	253
123	PKCepsilon-mediated phosphorylation of vimentin controls integrin recycling and motility. <i>EMBO Journal</i> , <b>2005</b> , 24, 3834-45	13	213
122	Integrin traffic - the update. <i>Journal of Cell Science</i> , <b>2015</b> , 128, 839-52	5.3	203
121	Cooperation between integrins and growth factor receptors in signaling and endocytosis. <i>Annual Review of Cell and Developmental Biology</i> , <b>2011</b> , 27, 291-320	12.6	195
120	Internalization of echovirus 1 in caveolae. <i>Journal of Virology</i> , <b>2002</b> , 76, 1856-65	6.6	193
119	CIP2A is associated with human breast cancer aggressivity. <i>Clinical Cancer Research</i> , <b>2009</b> , 15, 5092-100	12.9	190
118	Integrin alpha2beta1 mediates isoform-specific activation of p38 and upregulation of collagen gene transcription by a mechanism involving the alpha2 cytoplasmic tail. <i>Journal of Cell Biology</i> , <b>1999</b> , 147, 401-16	7.3	190
117	Integrin traffic. <i>Journal of Cell Science</i> , <b>2006</b> , 119, 3723-31	5.3	180
116	Vimentin coordinates fibroblast proliferation and keratinocyte differentiation in wound healing via TGF-beta signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E4320-7	11.5	179
115	Filopodia and adhesion in cancer cell motility. <i>Cell Adhesion and Migration</i> , <b>2011</b> , 5, 421-30	3.2	173
114	Distinct recycling of active and inactive beta1 integrins. <i>Traffic</i> , <b>2012</b> , 13, 610-25	5.7	168

113	Negative regulation of EGFR signalling through integrin-alpha1beta1-mediated activation of protein tyrosine phosphatase TCPTP. <i>Nature Cell Biology</i> , <b>2005</b> , 7, 78-85	23.4	166
112	Integrin inactivators: balancing cellular functions in vitro and in vivo. <i>Nature Reviews Molecular Cell Biology</i> , <b>2013</b> , 14, 430-42	48.7	161
111	SHARPIN is an endogenous inhibitor of $\beta$ -integrin activation. <i>Nature Cell Biology</i> , <b>2011</b> , 13, 1315-24	23.4	159
110	Endothelial destabilization by angiopoietin-2 via integrin $\beta$ activation. <i>Nature Communications</i> , <b>2015</b> , 6, 5962	17.4	158
109	Clustering induces a lateral redistribution of alpha 2 beta 1 integrin from membrane rafts to caveolae and subsequent protein kinase C-dependent internalization. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 625-36	3.5	156
108	Integrin trafficking regulated by Rab21 is necessary for cytokinesis. <i>Developmental Cell</i> , <b>2008</b> , 15, 371-385	5.2	153
107	Integrin alpha 2 beta 1 promotes activation of protein phosphatase 2A and dephosphorylation of Akt and glycogen synthase kinase 3 beta. <i>Molecular and Cellular Biology</i> , <b>2002</b> , 22, 1352-9	4.8	150
106	Integrin endosomal signalling suppresses anoikis. <i>Nature Cell Biology</i> , <b>2015</b> , 17, 1412-21	23.4	140
105	Distinct recognition of collagen subtypes by alpha(1)beta(1) and alpha(2)beta(1) integrins. Alpha(1)beta(1) mediates cell adhesion to type XIII collagen. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 8255-61	5.4	135
104	Integrin trafficking in cells and tissues. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 122-132	23.4	130
103	PKC epsilon controls the traffic of beta1 integrins in motile cells. <i>EMBO Journal</i> , <b>2002</b> , 21, 3608-19	13	125
102	Vimentin: Central hub in EMT induction?. <i>Small GTPases</i> , <b>2011</b> , 2, 51-53	2.7	117
101	The complexity of integrins in cancer and new scopes for therapeutic targeting. <i>British Journal of Cancer</i> , <b>2016</b> , 115, 1017-1023	8.7	112
100	Mutant p53-associated myosin-X upregulation promotes breast cancer invasion and metastasis. <i>Journal of Clinical Investigation</i> , <b>2014</b> , 124, 1069-82	15.9	111
99	SCAI acts as a suppressor of cancer cell invasion through the transcriptional control of beta1-integrin. <i>Nature Cell Biology</i> , <b>2009</b> , 11, 557-68	23.4	97
98	L-type calcium channels regulate filopodia stability and cancer cell invasion downstream of integrin signalling. <i>Nature Communications</i> , <b>2016</b> , 7, 13297	17.4	89
97	Vimentin-ERK Signaling Uncouples Slug Gene Regulatory Function. <i>Cancer Research</i> , <b>2015</b> , 75, 2349-62	10.1	84
96	The R-Ras/RIN2/Rab5 complex controls endothelial cell adhesion and morphogenesis via active integrin endocytosis and Rac signaling. <i>Cell Research</i> , <b>2012</b> , 22, 1479-501	24.7	84

95	SHANK proteins limit integrin activation by directly interacting with Rap1 and R-Ras. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 292-305	23.4	82
94	A peptide inhibiting the collagen binding function of integrin alpha2I domain. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 3513-21	5.4	75
93	Competitive binding of Rab21 and p120RasGAP to integrins regulates receptor traffic and migration. <i>Journal of Cell Biology</i> , <b>2011</b> , 194, 291-306	7.3	73
92	The R-Ras interaction partner ORP3 regulates cell adhesion. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 695-705	5.3	73
91	FiloQuant reveals increased filopodia density during breast cancer progression. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 3387-3403	7.3	72
90	AMPK negatively regulates tensin-dependent integrin activity. <i>Journal of Cell Biology</i> , <b>2017</b> , 216, 1107-1121	7.3	71
89	Normal stroma suppresses cancer cell proliferation via mechanosensitive regulation of JMJD1a-mediated transcription. <i>Nature Communications</i> , <b>2016</b> , 7, 12237	17.4	71
88	PKCepsilon is a permissive link in integrin-dependent IFN-gamma signalling that facilitates JAK phosphorylation of STAT1. <i>Nature Cell Biology</i> , <b>2003</b> , 5, 363-9	23.4	63
87	PtdIns(3,4,5)PI3 is a regulator of myosin-X localization and filopodia formation. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 3525-34	5.3	62
86	Distinct roles of AKT isoforms in regulating alpha5-integrin activity, migration, and invasion in prostate cancer. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 3357-69	3.5	62
85	PKCepsilon regulation of an alpha5 integrin-ZO-1 complex controls lamellae formation in migrating cancer cells. <i>Science Signaling</i> , <b>2009</b> , 2, ra32	8.8	61
84	Identification of protein interactions involved in cellular signaling. <i>Molecular and Cellular Proteomics</i> , <b>2013</b> , 12, 1752-63	7.6	60
83	The protein tyrosine phosphatase TCPTP controls VEGFR2 signalling. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 3570-80	5.3	60
82	Beta 1-integrin-c-Met cooperation reveals an inside-in survival signalling on autophagy-related endomembranes. <i>Nature Communications</i> , <b>2016</b> , 7, 11942	17.4	59
81	Differential expression of collagen- and laminin-binding integrins mediates ureteric bud and inner medullary collecting duct cell tubulogenesis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2004</b> , 287, F602-11	4.3	59
80	OSBP-related protein 3 (ORP3) coupling with VAMP-associated protein A regulates R-Ras activity. <i>Experimental Cell Research</i> , <b>2015</b> , 331, 278-91	4.2	57
79	Integrin alpha(2)I domain recognizes type I and type IV collagens by different mechanisms. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 3348-54	5.4	57
78	Interplay between cell adhesion and growth factor receptors: from the plasma membrane to the endosomes. <i>Cell and Tissue Research</i> , <b>2010</b> , 339, 111-20	4.2	56

77	Syndecan-1 supports integrin alpha2beta1-mediated adhesion to collagen. <i>Experimental Cell Research</i> , <b>2008</b> , 314, 3369-81	4.2	56
76	Cell-derived matrices for studying cell proliferation and directional migration in a complex 3D microenvironment. <i>Nature Protocols</i> , <b>2017</b> , 12, 2376-2390	18.8	55
75	Fetal liver endothelium regulates the seeding of tissue-resident macrophages. <i>Nature</i> , <b>2016</b> , 538, 392-396	10.4	53
74	Filopodome Mapping Identifies p130Cas as a Mechanosensitive Regulator of Filopodia Stability. <i>Current Biology</i> , <b>2019</b> , 29, 202-216.e7	6.3	53
73	Targeting $\beta$ -integrin inhibits vascular leakage in endotoxemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E6467-E6476	11.5	50
72	Endosomes: Emerging Platforms for Integrin-Mediated FAK Signalling. <i>Trends in Cell Biology</i> , <b>2016</b> , 26, 391-398	18.3	48
71	A phase II trial of bevacizumab with dacarbazine and daily low-dose interferon-alpha2a as first line treatment in metastatic melanoma. <i>Melanoma Research</i> , <b>2010</b> , 20, 318-25	3.3	47
70	Selective integrin endocytosis is driven by interactions between the integrin $\beta$ chain and AP2. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 172-9	17.6	44
69	Integrin activity in neuronal connectivity. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	44
68	SHARPIN regulates uropod detachment in migrating lymphocytes. <i>Cell Reports</i> , <b>2013</b> , 5, 619-28	10.6	44
67	Syndecan-1 and -4 differentially regulate oncogenic K-ras dependent cell invasion into collagen through $\alpha$ integrin and MT1-MMP. <i>Matrix Biology</i> , <b>2011</b> , 30, 207-17	11.4	39
66	Tensin-4-dependent MET stabilization is essential for survival and proliferation in carcinoma cells. <i>Developmental Cell</i> , <b>2014</b> , 29, 421-36	10.2	38
65	A Strong Contractile Actin Fence and Large Adhesions Direct Human Pluripotent Colony Morphology and Adhesion. <i>Stem Cell Reports</i> , <b>2017</b> , 9, 67-76	8	38
64	Formin-like 2 Promotes $\beta$ -Integrin Trafficking and Invasive Motility Downstream of PKC $\delta$ <i>Developmental Cell</i> , <b>2015</b> , 34, 475-83	10.2	35
63	Integrin-specific control of focal adhesion kinase and RhoA regulates membrane protrusion and invasion. <i>PLoS ONE</i> , <b>2013</b> , 8, e74659	3.7	35
62	A functional genetic screen reveals new regulators of $\beta$ -integrin activity. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 649-61	5.3	35
61	Epithelial vimentin plays a functional role in mammary gland development. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 4103-4113	6.6	33
60	SHARPIN regulates collagen architecture and ductal outgrowth in the developing mouse mammary gland. <i>EMBO Journal</i> , <b>2017</b> , 36, 165-182	13	31

59	Transcytosis route mediates rapid delivery of intact antibodies to draining lymph nodes. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 3086-3102	15.9	31
58	Mammary-derived growth inhibitor alters traffic of EGFR and induces a novel form of cetuximab resistance. <i>Clinical Cancer Research</i> , <b>2009</b> , 15, 6570-81	12.9	30
57	Negative regulators of integrin activity. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 3271-80	5.3	30
56	"RKKH" peptides from the snake venom metalloproteinase of <i>Bothrops jararaca</i> bind near the metal ion-dependent adhesion site of the human integrin alpha(2) I-domain. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 31493-505	5.4	30
55	SORLA regulates endosomal trafficking and oncogenic fitness of HER2. <i>Nature Communications</i> , <b>2019</b> , 10, 2340	17.4	28
54	Fluctuation-Based Super-Resolution Traction Force Microscopy. <i>Nano Letters</i> , <b>2020</b> , 20, 2230-2245	11.5	28
53	Inhibition of receptor tyrosine kinase signalling by small molecule agonist of T-cell protein tyrosine phosphatase. <i>BMC Cancer</i> , <b>2010</b> , 10, 7	4.8	28
52	Cross-talk between integrins alpha1beta1 and alpha2beta1 in renal epithelial cells. <i>Experimental Cell Research</i> , <b>2008</b> , 314, 3593-604	4.2	27
51	Regulation of Cell Migration and $\beta$ Integrin Trafficking by the Endosomal Adaptor GGA3. <i>Traffic</i> , <b>2016</b> , 17, 670-88	5.7	26
50	Distinct c-Met activation mechanisms induce cell rounding or invasion through pathways involving integrins, RhoA and HIP1. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 1938-52	5.3	26
49	Using xCELLigence RTCA Instrument to Measure Cell Adhesion. <i>Bio-protocol</i> , <b>2017</b> , 7,	0.9	24
48	An RNAi screen identifies KIF15 as a novel regulator of the endocytic trafficking of integrin. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 2433-47	5.3	22
47	Lymphatic endothelium stimulates melanoma metastasis and invasion via MMP14-dependent Notch3 and $\beta$ -integrin activation. <i>ELife</i> , <b>2018</b> , 7,	8.9	21
46	Calpains promote $\beta$ integrin turnover in nonrecycling integrin pathway. <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 448-63	3.5	20
45	Integrins and mutant p53 on the road to metastasis. <i>Cell</i> , <b>2009</b> , 139, 1220-2	56.2	19
44	Superresolution architecture of cornerstone focal adhesions in human pluripotent stem cells. <i>Nature Communications</i> , <b>2019</b> , 10, 4756	17.4	18
43	Tensins: Bridging AMP-Activated Protein Kinase with Integrin Activation. <i>Trends in Cell Biology</i> , <b>2017</b> , 27, 703-711	18.3	18
42	Mutually Exclusive Roles of SHARPIN in Integrin Inactivation and NF- $\kappa$ B Signaling. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143423	3.7	18

41	Serum angiogenin levels predict treatment response in patients with stage IV melanoma. <i>Clinical and Experimental Metastasis</i> , <b>2007</b> , 24, 567-74	4.7	17
40	Integrin signaling and mechanotransduction in regulation of somatic stem cells. <i>Experimental Cell Research</i> , <b>2019</b> , 378, 217-225	4.2	17
39	Loss of ADAM9 expression impairs $\beta$ 1 integrin endocytosis, focal adhesion formation and cancer cell migration. <i>Journal of Cell Science</i> , <b>2018</b> , 131,	5.3	16
38	GGA2 and RAB13 promote activity-dependent $\beta$ 1-integrin recycling. <i>Journal of Cell Science</i> , <b>2019</b> , 132,	5.3	15
37	Mechano-responsiveness of fibrillar adhesions on stiffness-gradient gels. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	15
36	Vascular Morphogenesis: An Integrin and Fibronectin Highway. <i>Current Biology</i> , <b>2017</b> , 27, R158-R161	6.3	12
35	High-throughput methods in identification of protein tyrosine phosphatase inhibitors and activators. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2011</b> , 11, 141-50	2.2	10
34	A ZO-1/ $\beta$ 1-integrin complex regulates cytokinesis downstream of PKC $\delta$ in NCI-H460 cells plated on fibronectin. <i>PLoS ONE</i> , <b>2013</b> , 8, e70696	3.7	10
33	Cargo-specific recruitment in clathrin- and dynamin-independent endocytosis. <i>Nature Cell Biology</i> , <b>2021</b> , 23, 1073-1084	23.4	10
32	Molecular mechanism of T-cell protein tyrosine phosphatase (TCPTP) activation by mitoxantrone. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2013</b> , 1834, 1988-97	4	9
31	Integrin adhesion complexes. <i>Current Biology</i> , <b>2021</b> , 31, R536-R542	6.3	9
30	Ga-DOTA-E[c(RGDfK)] PET Imaging of SHARPIN-Regulated Integrin Activity in Mice. <i>Journal of Nuclear Medicine</i> , <b>2019</b> , 60, 1380-1387	8.9	8
29	Integrin Binding Dynamics Modulate Ligand-Specific Mechanosensing in Mammary Gland Fibroblasts. <i>IScience</i> , <b>2020</b> , 23, 100907	6.1	8
28	Zebrafish Embryo Xenograft and Metastasis Assay. <i>Bio-protocol</i> , <b>2018</b> , 8, e3027	0.9	8
27	A feed-forward loop between SorLA and HER3 determines heregulin response and neratinib resistance. <i>Oncogene</i> , <b>2021</b> , 40, 1300-1317	9.2	7
26	ProLIF - quantitative integrin protein-protein interactions and synergistic membrane effects on proteoliposomes. <i>Journal of Cell Science</i> , <b>2018</b> , 132,	5.3	6
25	MASTL promotes cell contractility and motility through kinase-independent signaling. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	6
24	A Negative Feedback Loop Regulates Integrin Inactivation and Promotes Neutrophil Recruitment to Inflammatory Sites. <i>Journal of Immunology</i> , <b>2019</b> , 203, 1579-1588	5.3	5

23	Blocking integrin inactivation as an anti-angiogenic therapy. <i>EMBO Journal</i> , <b>2015</b> , 34, 1293-5	13	4
22	Integrin bondage: filamin takes control. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 355-7	17.6	4
21	Aneuploidy facilitates oncogenic transformation via specific genetic alterations, including Twist2 upregulation. <i>Carcinogenesis</i> , <b>2013</b> , 34, 2000-9	4.6	4
20	Myosin-X and talin modulate integrin activity at filopodia tips. <i>Cell Reports</i> , <b>2021</b> , 36, 109716	10.6	4
19	Mitosis-Resistant Adhesions Provide Molecular Memory to Dividing Cells. <i>Developmental Cell</i> , <b>2018</b> , 45, 5-7	10.2	3
18	Filopodia Quantification Using FiloQuant. <i>Methods in Molecular Biology</i> , <b>2019</b> , 2040, 359-373	1.4	3
17	Talin Rod Domain Containing Protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation		3
16	Cargo-specific recruitment in clathrin and dynamin-independent endocytosis		3
15	Integrin binding dynamics modulate ligand-specific mechanosensing in mammary gland fibroblasts		3
14	Talin rod domain-containing protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	3
13	Pressure Drives Rapid Burst-Like Coordinated Cellular Motion from 3D Cancer Aggregates.. <i>Advanced Science</i> , <b>2022</b> , e2104808	13.6	2
12	Myosin-X and talin modulate integrin activity at filopodia tips		2
11	FiloQuant reveals increased filopodia density during DCIS progression		2
10	Vimentin plays a functional role in mammary gland regeneration		2
9	Superresolution architecture of pluripotency guarding adhesions		2
8	PP2A inhibitor PME-1 suppresses anoikis, and is associated with therapy relapse of PTEN-deficient prostate cancers		2
7	Food for thought: How cell adhesion coordinates nutrient sensing. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	2
6	Kinase-Independent Functions of MASTL in Cancer: A New Perspective on MASTL Targeting. <i>Cells</i> , <b>2020</b> , 9,	7.9	1



5	SHANK3 conformation regulates direct actin binding and crosstalk with Rap1 signaling. <i>Current Biology</i> , <b>2021</b> , 31, 4956-4970.e9	6.3	1
4	GGA2 and RAB13 promote activity-dependent $\beta$ -integrin recycling		1
3	MASTL is enriched in cancerous and pluripotent stem cells and influences OCT1/OCT4 levels. <i>iScience</i> , <b>2022</b> , 25, 104459	6.1	0
2	Johanna Ivaska: Finding opposing forces in integrins. <i>Journal of Cell Biology</i> , <b>2015</b> , 208, 652-3	7.3	
1	Identification of sharpin as a molecule regulating leukocyte transmigration from siRNA screens (LB281). <i>FASEB Journal</i> , <b>2014</b> , 28, LB281	0.9	