

Arnoud Sonnenberg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

8,412
citations

48
h-index

91
g-index

105
ext. papers

9,140
ext. citations

6.4
avg, IF

5.95
L-index

#	Paper	IF	Citations
102	The laminin-binding integrins regulate nuclear factor kappa- β -dependent epithelial cell polarity and inflammation. <i>Journal of Cell Science</i> , 2021 ,	5.3	1
101	EGFR-dependent tyrosine phosphorylation of integrin β is not required for downstream signaling events in cancer cell lines. <i>Scientific Reports</i> , 2021 , 11, 8675	4.9	2
100	Integrin β 1 Is a Key Regulator of Several Protumorigenic Pathways during Skin Carcinogenesis. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 732-741.e6	4.3	6
99	Regulation of hemidesmosome dynamics and cell signaling by integrin β 4. <i>Journal of Cell Science</i> , 2021 , 134,	5.3	3
98	Laminin-binding integrins are essential for the maintenance of functional mammary secretory epithelium in lactation. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	13
97	Integrin β 1 in hair bulge stem cells modulates CCN2 expression and promotes skin tumorigenesis. <i>Life Science Alliance</i> , 2020 , 3,	5.8	5
96	Hemidesmosomes modulate force generation via focal adhesions. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	39
95	Comparative interactomics analysis reveals potential regulators of β 4 distribution in keratinocytes. <i>Biology Open</i> , 2020 , 9,	2.2	5
94	Crosstalk between Cell Adhesion Complexes in Regulation of Mechanotransduction. <i>BioEssays</i> , 2020 , 42, e2000119	4.1	20
93	Tetraspanin CD151 and integrin β 1 contribute to the stabilization of integrin β 4-containing cell-matrix adhesions. <i>Journal of Cell Science</i> , 2019 , 132,	5.3	17
92	Integrin β 4 Recognition of a Linear Motif of Bullous Pemphigoid Antigen BP230 Controls Its Recruitment to Hemidesmosomes. <i>Structure</i> , 2019 , 27, 952-964.e6	5.2	7
91	Absence of integrin β 1 promotes the progression of HER2-driven breast cancer in vivo. <i>Breast Cancer Research</i> , 2019 , 21, 63	8.3	10
90	The laminin binding β and β integrins cooperate to promote epithelial cell adhesion and growth. <i>Matrix Biology</i> , 2019 , 77, 101-116	11.4	21
89	Mechanisms of integrin α 6 clustering in flat clathrin lattices. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	27
88	Integrin alpha6 maintains the structural integrity of the kidney collecting system. <i>Matrix Biology</i> , 2017 , 57-58, 244-257	11.4	20
87	The nesprin-cytoskeleton interface probed directly on single nuclei is a mechanically rich system. <i>Nucleus</i> , 2017 , 8, 534-547	3.9	10
86	The opposing roles of laminin-binding integrins in cancer. <i>Matrix Biology</i> , 2017 , 57-58, 213-243	11.4	81

85	The Structure of the Plakin Domain of Plectin Reveals an Extended Rod-like Shape. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18643-62	5-4	19
84	Combination of X-ray crystallography, SAXS and DEER to obtain the structure of the FnIII-3,4 domains of integrin $\beta 4$. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015 , 71, 969-85		31
83	The rod domain is not essential for the function of plectin in maintaining tissue integrity. <i>Molecular Biology of the Cell</i> , 2015 , 26, 2402-17	3-5	11
82	The molecular architecture of hemidesmosomes, as revealed with super-resolution microscopy. <i>Journal of Cell Science</i> , 2015 , 128, 3714-9	5-3	27
81	Integrin $\beta 1$ regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. <i>Molecular Biology of the Cell</i> , 2015 , 26, 1857-74	3-5	16
80	PKD2 and RSK1 Regulate Integrin β Phosphorylation at Threonine 1736. <i>PLoS ONE</i> , 2015 , 10, e0143357	3-7	4
79	CLIC4 regulates cell adhesion and β integrin trafficking. <i>Journal of Cell Science</i> , 2014 , 127, 5189-203	5-3	37
78	Reduced susceptibility to two-stage skin carcinogenesis in mice with epidermis-specific deletion of CD151. <i>Journal of Investigative Dermatology</i> , 2014 , 134, 221-228	4-3	14
77	MAPK uncouples cell cycle progression from cell spreading and cytoskeletal organization in cycling cells. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 293-307	10-3	8
76	Cell-matrix adhesion of podocytes in physiology and disease. <i>Nature Reviews Nephrology</i> , 2013 , 9, 200-10	4-9	94
75	Kindlin-1 mutant zebrafish as an in vivo model system to study adhesion mechanisms in the epidermis. <i>Journal of Investigative Dermatology</i> , 2013 , 133, 2180-90	4-3	13
74	Nesprin-3 connects plectin and vimentin to the nuclear envelope of Sertoli cells but is not required for Sertoli cell function in spermatogenesis. <i>Molecular Biology of the Cell</i> , 2013 , 24, 2454-66	3-5	57
73	Kindlin-1 regulates integrin dynamics and adhesion turnover. <i>PLoS ONE</i> , 2013 , 8, e65341	3-7	22
72	Loss of integrin β prevents skin tumor formation by promoting epidermal turnover and depletion of slow-cycling cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21468-73	11-5	51
71	Epigenetic regulation of galectin-3 expression by β integrins promotes cell adhesion and migration. <i>Journal of Biological Chemistry</i> , 2012 , 287, 44684-93	5-4	37
70	Distinct roles of talin and kindlin in regulating integrin $\beta 1$ function and trafficking. <i>Current Biology</i> , 2012 , 22, 1554-63	6-3	81
69	Integrin-associated CD151 drives ErbB2-evoked mammary tumor onset and metastasis. <i>Neoplasia</i> , 2012 , 14, 678-89	6-4	63
68	Carbonic anhydrase 5 regulates acid-base homeostasis in zebrafish. <i>PLoS ONE</i> , 2012 , 7, e39881	3-7	5

67	Phosphorylation of threonine 1736 in the C-terminal tail of integrin β contributes to hemidesmosome disassembly. <i>Molecular Biology of the Cell</i> , 2012 , 23, 1475-85	3.5	38
66	Blood pressure influences end-stage renal disease of Cd151 knockout mice. <i>Journal of Clinical Investigation</i> , 2012 , 122, 348-58	15.9	62
65	Gain of glycosylation in integrin β causes lung disease and nephrotic syndrome. <i>Journal of Clinical Investigation</i> , 2012 , 122, 4375-87	15.9	86
64	Tetraspanin CD151 maintains vascular stability by balancing the forces of cell adhesion and cytoskeletal tension. <i>Blood</i> , 2011 , 118, 4274-84	2.2	36
63	Nesprin-3: a versatile connector between the nucleus and the cytoskeleton. <i>Biochemical Society Transactions</i> , 2011 , 39, 1719-24	5.1	41
62	Mechanisms of integrin activation and trafficking. <i>Current Opinion in Cell Biology</i> , 2011 , 23, 607-14	9	242
61	Integrin $\beta 4$ identifies an adult distal lung epithelial population with regenerative potential in mice. <i>Journal of Clinical Investigation</i> , 2011 , 121, 2855-62	15.9	297
60	Nesprin-3 augments peripheral nuclear localization of intermediate filaments in zebrafish. <i>Journal of Cell Science</i> , 2011 , 124, 755-64	5.3	38
59	The structure of the plakin domain of plectin reveals a non-canonical SH3 domain interacting with its fourth spectrin repeat. <i>Journal of Biological Chemistry</i> , 2011 , 286, 12429-38	5.4	37
58	Integrin-TGF-beta crosstalk in fibrosis, cancer and wound healing. <i>EMBO Reports</i> , 2010 , 11, 97-105	6.5	445
57	Expression of the orphan protein Plet-1 during trichilemmal differentiation of anagen hair follicles. <i>Journal of Investigative Dermatology</i> , 2010 , 130, 1500-13	4.3	26
56	EGF-induced MAPK signaling inhibits hemidesmosome formation through phosphorylation of the integrin $\beta 4$. <i>Journal of Biological Chemistry</i> , 2010 , 285, 37650-62	5.4	55
55	Unique and redundant functions of integrins in the epidermis. <i>FASEB Journal</i> , 2010 , 24, 4133-52	0.9	117
54	BPAG1 isoform-b: complex distribution pattern in striated and heart muscle and association with plectin and alpha-actinin. <i>Experimental Cell Research</i> , 2010 , 316, 297-313	4.2	16
53	Advances and perspectives of the architecture of hemidesmosomes: lessons from structural biology. <i>Cell Adhesion and Migration</i> , 2009 , 3, 361-4	3.2	45
52	Integrin $\alpha 3 \beta 1$ inhibits directional migration and wound re-epithelialization in the skin. <i>Journal of Cell Science</i> , 2009 , 122, 278-88	5.3	120
51	Structure of the Calx-beta domain of the integrin $\beta 4$ subunit: insights into function and cation-independent stability. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009 , 65, 858-71		25
50	Structural basis of the interaction between integrin $\alpha 6 \beta 4$ and plectin at the hemidesmosomes. <i>EMBO Journal</i> , 2009 , 28, 1180-90	13	72

49	Investigation into the mechanism regulating MRP localization. <i>Experimental Cell Research</i> , 2008 , 314, 330-41	4.2	4
48	Regulation of hemidesmosome disassembly by growth factor receptors. <i>Current Opinion in Cell Biology</i> , 2008 , 20, 589-96	9	91
47	Conditional deletion of the Itgb4 integrin gene in Schwann cells leads to delayed peripheral nerve regeneration. <i>Journal of Neuroscience</i> , 2008 , 28, 11292-303	6.6	23
46	TorsinA binds the KASH domain of nesprins and participates in linkage between nuclear envelope and cytoskeleton. <i>Journal of Cell Science</i> , 2008 , 121, 3476-86	5.3	137
45	The regulation of MacMARCKS expression by integrin beta3. <i>Experimental Cell Research</i> , 2007 , 313, 1260-9	4.9	5
44	Plakins in development and disease. <i>Experimental Cell Research</i> , 2007 , 313, 2189-203	4.2	223
43	Serine phosphorylation of the integrin beta4 subunit is necessary for epidermal growth factor receptor induced hemidesmosome disruption. <i>Molecular Biology of the Cell</i> , 2007 , 18, 3512-22	3.5	70
42	Dual Role of alpha6beta4 integrin in epidermal tumor growth: tumor-suppressive versus tumor-promoting function. <i>Molecular Biology of the Cell</i> , 2007 , 18, 4210-21	3.5	46
41	Requirements for the localization of nesprin-3 at the nuclear envelope and its interaction with plectin. <i>Journal of Cell Science</i> , 2007 , 120, 3384-94	5.3	130
40	The structure of a tandem pair of spectrin repeats of plectin reveals a modular organization of the plakin domain. <i>Journal of Molecular Biology</i> , 2007 , 368, 1379-91	6.5	46
39	Current insights into the formation and breakdown of hemidesmosomes. <i>Trends in Cell Biology</i> , 2006 , 16, 376-83	18.3	240
38	Kidney failure in mice lacking the tetraspanin CD151. <i>Journal of Cell Biology</i> , 2006 , 175, 33-9	7.3	200
37	Multiple functions of the integrin alpha6beta4 in epidermal homeostasis and tumorigenesis. <i>Molecular and Cellular Biology</i> , 2006 , 26, 2877-86	4.8	112
36	Modeling and experimental validation of the binary complex of the plectin actin-binding domain and the first pair of fibronectin type III (FNIII) domains of the beta4 integrin. <i>Journal of Biological Chemistry</i> , 2005 , 280, 22270-7	5.4	18
35	Integrins control motile strategy through a Rho-cofilin pathway. <i>Journal of Cell Biology</i> , 2005 , 169, 515-26	6.3	161
34	Nesprin-3, a novel outer nuclear membrane protein, associates with the cytoskeletal linker protein plectin. <i>Journal of Cell Biology</i> , 2005 , 171, 799-810	7.3	363
33	Keratinocytes display normal proliferation, survival and differentiation in conditional beta4-integrin knockout mice. <i>Journal of Cell Science</i> , 2005 , 118, 1045-60	5.3	69
32	The Rac activator Tiam1 is required for (alpha)3(beta)1-mediated laminin-5 deposition, cell spreading, and cell migration. <i>Journal of Cell Biology</i> , 2005 , 171, 871-81	7.3	85

31	Analysis of the interactions between BP180, BP230, plectin and the integrin alpha6beta4 important for hemidesmosome assembly. <i>Journal of Cell Science</i> , 2003 , 116, 387-99	5.3	186
30	Structural and functional analysis of the actin binding domain of plectin suggests alternative mechanisms for binding to F-actin and integrin beta4. <i>Structure</i> , 2003 , 11, 615-25	5.2	86
29	Specificity of binding of the plectin actin-binding domain to beta4 integrin. <i>Molecular Biology of the Cell</i> , 2003 , 14, 4039-50	3.5	42
28	Interaction of the bullous pemphigoid antigen 1 (BP230) and desmoplakin with intermediate filaments is mediated by distinct sequences within their COOH terminus. <i>Molecular Biology of the Cell</i> , 2003 , 14, 1978-92	3.5	91
27	The fibronectin-binding integrins alpha5beta1 and alphavbeta3 differentially modulate RhoA-GTP loading, organization of cell matrix adhesions, and fibronectin fibrillogenesis. <i>Journal of Cell Biology</i> , 2002 , 159, 1071-86	7.3	262
26	Dynamics of the alpha6beta4 integrin in keratinocytes. <i>Molecular Biology of the Cell</i> , 2002 , 13, 3845-58	3.5	91
25	Expression of alpha7beta1 integrin splicing variants during skeletal muscle regeneration. <i>American Journal of Pathology</i> , 2002 , 161, 1023-31	5.8	34
24	Association of the tetraspanin CD151 with the laminin-binding integrins alpha3beta1, alpha6beta1, alpha6beta4 and alpha7beta1 in cells in culture and in vivo. <i>Journal of Cell Science</i> , 2002 , 115, 1161-1173	5.3	130
23	Association of the tetraspanin CD151 with the laminin-binding integrins alpha3beta1, alpha6beta1, alpha6beta4 and alpha7beta1 in cells in culture and in vivo. <i>Journal of Cell Science</i> , 2002 , 115, 1161-73	5.3	116
22	Two different mutations in the cytoplasmic domain of the integrin beta 4 subunit in nonlethal forms of epidermolysis bullosa prevent interaction of beta 4 with plectin. <i>Journal of Investigative Dermatology</i> , 2001 , 117, 1405-11	4.3	42
21	Truncated typeXVII collagen expression in a patient with non-herlitz junctional epidermolysis bullosa caused by a homozygous splice-site mutation. <i>Laboratory Investigation</i> , 2001 , 81, 887-94	5.9	11
20	The hemidesmosomal protein bullous pemphigoid antigen 1 and the integrin beta 4 subunit bind to ERBIN. Molecular cloning of multiple alternative splice variants of ERBIN and analysis of their tissue expression. <i>Journal of Biological Chemistry</i> , 2001 , 276, 32427-36	5.4	65
19	Epithelial development and differentiation in the mammary gland is not dependent on alpha 3 or alpha 6 integrin subunits. <i>Developmental Biology</i> , 2001 , 233, 449-67	3.1	63
18	The interaction of plectin with actin: evidence for cross-linking of actin filaments by dimerization of the actin-binding domain of plectin. <i>Journal of Cell Science</i> , 2001 , 114, 2065-2076	5.3	51
17	The tetraspan molecule CD151, a novel constituent of hemidesmosomes, associates with the integrin alpha6beta4 and may regulate the spatial organization of hemidesmosomes. <i>Journal of Cell Biology</i> , 2000 , 149, 969-82	7.3	195
16	Binding of integrin alpha6beta4 to plectin prevents plectin association with F-actin but does not interfere with intermediate filament binding. <i>Journal of Cell Biology</i> , 1999 , 147, 417-34	7.3	157
15	Structure and function of hemidesmosomes: more than simple adhesion complexes. <i>Journal of Investigative Dermatology</i> , 1999 , 112, 411-8	4.3	428
14	Integrins: alternative splicing as a mechanism to regulate ligand binding and integrin signaling events. <i>BioEssays</i> , 1999 , 21, 499-509	4.1	97

13	Cre-loxP-mediated inactivation of the alpha6A integrin splice variant in vivo: evidence for a specific functional role of alpha6A in lymphocyte migration but not in heart development. <i>Journal of Cell Biology</i> , 1998 , 143, 253-66	7.3	52
12	Hemidesmosome formation is initiated by the beta4 integrin subunit, requires complex formation of beta4 and HD1/plectin, and involves a direct interaction between beta4 and the bullous pemphigoid antigen 180. <i>Journal of Cell Biology</i> , 1998 , 142, 271-84	7.3	154
11	The unique cytoplasmic domain of the human integrin variant beta4E is produced by partial retention of intronic sequences. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 235, 826-30	3.4	21
10	Epithelial detachment due to absence of hemidesmosomes in integrin beta 4 null mice. <i>Nature Genetics</i> , 1996 , 13, 366-9	36.3	362
9	An alternatively spliced exon in the extracellular domain of the human alpha 6 integrin subunit--functional analysis of the alpha 6 integrin variants. <i>Cell Adhesion and Communication</i> , 1995 , 3, 143-61		35
8	Expression patterns of laminin receptor splice variants alpha 6A beta 1 and alpha 6B beta 1 suggest different roles in mouse development. <i>Developmental Dynamics</i> , 1995 , 204, 240-58	2.9	47
7	Demonstration of type II hemidesmosomes in a mammary gland epithelial cell line, BMGE-H. <i>Journal of Biochemistry</i> , 1994 , 115, 469-76	3.1	75
6	Suppression of Mouse Melanoma Metastasis by EA-1, A Monoclonal Antibody Specific for β Integrins. <i>Cell Adhesion and Communication</i> , 1993 , 1, 67-81		57
5	Determination of proteinase 3-alpha 1-antitrypsin complexes in inflammatory fluids. <i>FEBS Letters</i> , 1992 , 314, 117-21	3.8	27
4	Molecular cloning of the human alpha 6 integrin subunit. Alternative splicing of alpha 6 mRNA and chromosomal localization of the alpha 6 and beta 4 genes. <i>FEBS Journal</i> , 1991 , 199, 425-33		144
3	Laminin receptor on platelets is the integrin VLA-6. <i>Nature</i> , 1988 , 336, 487-9	50.4	587
2	Integrin β 4 recognition of a linear motif of bullous pemphigoid antigen BP230 controls its recruitment to hemidesmosomes		1
1	Mechanisms of integrin α 6 clustering in flat clathrin lattices		2