

Arnoud Sonnenberg

List of Publications by Year in descending order

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103
papers

9,761
citations

36203

51
h-index

37111

96
g-index

105
all docs

105
docs citations

105
times ranked

9341
citing authors

#	ARTICLE	IF	CITATIONS
1	Laminin receptor on platelets is the integrin VLA-6. <i>Nature</i> , 1988, 336, 487-489.	13.7	656
2	Integrin-TGF β 2 crosstalk in fibrosis, cancer and wound healing. <i>EMBO Reports</i> , 2010, 11, 97-105.	2.0	534
3	Structure and Function of Hemidesmosomes: More Than Simple Adhesion Complexes. <i>Journal of Investigative Dermatology</i> , 1999, 112, 411-418.	0.3	513
4	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.	2.3	409
5	Epithelial detachment due to absence of hemidesmosomes in integrin α 24 null mice. <i>Nature Genetics</i> , 1996, 13, 366-369.	9.4	386
6	Integrin α 24 identifies an adult distal lung epithelial population with regenerative potential in mice. <i>Journal of Clinical Investigation</i> , 2011, 121, 2855-2862.	3.9	379
7	The fibronectin-binding integrins α 5 β 1 and α v β 3 differentially modulate RhoA GTP loading, organization of cell matrix adhesions, and fibronectin fibrillogenesis. <i>Journal of Cell Biology</i> , 2002, 159, 1071-1086.	2.3	321
8	Current insights into the formation and breakdown of hemidesmosomes. <i>Trends in Cell Biology</i> , 2006, 16, 376-383.	3.6	284
9	Mechanisms of integrin activation and trafficking. <i>Current Opinion in Cell Biology</i> , 2011, 23, 607-614.	2.6	266
10	Plakins in development and disease. <i>Experimental Cell Research</i> , 2007, 313, 2189-2203.	1.2	250
11	Kidney failure in mice lacking the tetraspanin CD151. <i>Journal of Cell Biology</i> , 2006, 175, 33-39.	2.3	214
12	The Tetraspan Molecule Cd151, a Novel Constituent of Hemidesmosomes, Associates with the Integrin α 6 β 4 and May Regulate the Spatial Organization of Hemidesmosomes. <i>Journal of Cell Biology</i> , 2000, 149, 969-982.	2.3	211
13	Analysis of the interactions between BP180, BP230, plectin and the integrin α 6 β 4 important for hemidesmosome assembly. <i>Journal of Cell Science</i> , 2003, 116, 387-399.	1.2	206
14	Integrins control motile strategy through a Rho-cofilin pathway. <i>Journal of Cell Biology</i> , 2005, 169, 515-526.	2.3	175
15	Hemidesmosome Formation Is Initiated by the α 24 Integrin Subunit, Requires Complex Formation of α 24 and HD1/Plectin, and Involves a Direct Interaction between α 24 and the Bullous Pemphigoid Antigen 180. <i>Journal of Cell Biology</i> , 1998, 142, 271-284.	2.3	171
16	Binding of Integrin α 6 β 4 to Plectin Prevents Plectin Association with F-Actin but Does Not Interfere with Intermediate Filament Binding. <i>Journal of Cell Biology</i> , 1999, 147, 417-434.	2.3	171
17	Molecular cloning of the human alpha6 integrin subunit. Alternative splicing of alpha6 mRNA and chromosomal localization of the alpha6 and beta4 genes. <i>FEBS Journal</i> , 1991, 199, 425-433.	0.2	164
18	TorsinA binds the KASH domain of nesprins and participates in linkage between nuclear envelope and cytoskeleton. <i>Journal of Cell Science</i> , 2008, 121, 3476-3486.	1.2	159

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19	Association of the tetraspanin CD151 with the laminin-binding integrins $\alpha 3 \beta 1$, $\alpha 6 \beta 1$, $\alpha 6 \beta 4$ and $\alpha 7 \beta 1$ in cells in culture and in vivo. <i>Journal of Cell Science</i> , 2002, 115, 1161-1173.	1.2	143
20	Requirements for the localization of nesprin-3 at the nuclear envelope and its interaction with plectin. <i>Journal of Cell Science</i> , 2007, 120, 3384-3394.	1.2	142
21	Unique and redundant functions of integrins in the epidermis. <i>FASEB Journal</i> , 2010, 24, 4133-4152.	0.2	136
22	Integrin $\alpha 3 \beta 1$ inhibits directional migration and wound re-epithelialization in the skin. <i>Journal of Cell Science</i> , 2009, 122, 278-288.	1.2	130
23	Association of the tetraspanin CD151 with the laminin-binding integrins $\alpha 3 \beta 1$, $\alpha 6 \beta 1$, $\alpha 6 \beta 4$ and $\alpha 7 \beta 1$ in cells in culture and in vivo. <i>Journal of Cell Science</i> , 2002, 115, 1161-73.	1.2	129
24	Multiple Functions of the Integrin $\alpha 6 \beta 4$ in Epidermal Homeostasis and Tumorigenesis. <i>Molecular and Cellular Biology</i> , 2006, 26, 2877-2886.	1.1	121
25	Cell-matrix adhesion of podocytes in physiology and disease. <i>Nature Reviews Nephrology</i> , 2013, 9, 200-210.	4.1	115
26	The opposing roles of laminin-binding integrins in cancer. <i>Matrix Biology</i> , 2017, 57-58, 213-243.	1.5	106
27	Integrins: alternative splicing as a mechanism to regulate ligand binding and integrin signaling events. <i>BioEssays</i> , 1999, 21, 499-509.	1.2	105
28	Gain of glycosylation in integrin $\alpha 3$ causes lung disease and nephrotic syndrome. <i>Journal of Clinical Investigation</i> , 2012, 122, 4375-4387.	3.9	102
29	Dynamics of the $\alpha 6 \beta 4$ Integrin in Keratinocytes. <i>Molecular Biology of the Cell</i> , 2002, 13, 3845-3858.	0.9	99
30	Regulation of hemidesmosome disassembly by growth factor receptors. <i>Current Opinion in Cell Biology</i> , 2008, 20, 589-596.	2.6	99
31	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, 1978-1992.	0.9	98
32	Structural and Functional Analysis of the Actin Binding Domain of Plectin Suggests Alternative Mechanisms for Binding to F-Actin and Integrin $\alpha 4$. <i>Structure</i> , 2003, 11, 615-625.	1.6	92
33	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, 871-881.	2.3	88
34	Distinct Roles of Talin and Kindlin in Regulating Integrin $\alpha 5 \beta 1$ Function and Trafficking. <i>Current Biology</i> , 2012, 22, 1554-1563.	1.8	87
35	Hemidesmosomes modulate force generation via focal adhesions. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	87
36	Structural basis of the interaction between integrin $\alpha 6 \beta 4$ and plectin at the hemidesmosomes. <i>EMBO Journal</i> , 2009, 28, 1180-1190.	3.5	82

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37	Keratinocytes display normal proliferation, survival and differentiation in conditional β 4-integrin knockout mice. <i>Journal of Cell Science</i> , 2005, 118, 1045-1060.	1.2	79
38	Demonstration of Type II Hemidesmosomes in a Mammary Gland Epithelial Cell Line, BMGE-H1. <i>Journal of Biochemistry</i> , 1994, 115, 469-476.	0.9	78
39	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, 2454-2466.	0.9	77
40	Serine Phosphorylation of the Integrin β 4 Subunit Is Necessary for Epidermal Growth Factor Receptor-induced Hemidesmosome Disruption. <i>Molecular Biology of the Cell</i> , 2007, 18, 3512-3522.	0.9	74
41	The Hemidesmosomal Protein Bullous Pemphigoid Antigen 1 and the Integrin β 4 Subunit Bind to ERBIN. <i>Journal of Biological Chemistry</i> , 2001, 276, 32427-32436.	1.6	73
42	Integrin-Associated CD151 Drives ErbB2-Evoked Mammary Tumor Onset and Metastasis. <i>Neoplasia</i> , 2012, 14, 678-683.	2.3	69
43	Epithelial Development and Differentiation in the Mammary Gland Is Not Dependent on β 3 or β 6 Integrin Subunits. <i>Developmental Biology</i> , 2001, 233, 449-467.	0.9	67
44	Blood pressure influences end-stage renal disease of Cd151 knockout mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 348-358.	3.9	65
45	Crosstalk between Cell Adhesion Complexes in Regulation of Mechanotransduction. <i>BioEssays</i> , 2020, 42, e2000119.	1.2	64
46	EGF-induced MAPK Signaling Inhibits Hemidesmosome Formation through Phosphorylation of the Integrin β 4*. <i>Journal of Biological Chemistry</i> , 2010, 285, 37650-37662.	1.6	63
47	Suppression of Mouse Melanoma Metastasis by EA-1, A Monoclonal Antibody Specific for β 6 Integrins. <i>Cell Adhesion and Communication</i> , 1993, 1, 67-81.	1.7	61
48	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.	1.2	59
49	Loss of integrin β 3 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, 21468-21473.	3.3	57
50	Cre-loxP-mediated Inactivation of the β 6A Integrin Splice Variant In Vivo: Evidence for a Specific Functional Role of β 6A in Lymphocyte Migration but Not in Heart Development. <i>Journal of Cell Biology</i> , 1998, 143, 253-266.	2.3	56
51	Advances and perspectives of the architecture of hemidesmosomes: Lessons from structural biology. <i>Cell Adhesion and Migration</i> , 2009, 3, 361-364.	1.1	53
52	Expression patterns of laminin receptor splice variants β 6A β 1 and β 6B β 1 suggest different roles in mouse development. <i>Developmental Dynamics</i> , 1995, 204, 240-258.	0.8	52
53	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, 1379-1391.	2.0	52
54	CLIC4 regulates cell adhesion and β 1 integrin trafficking. <i>Journal of Cell Science</i> , 2014, 127, 5189-203.	1.2	50

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55	Two Different Mutations in the Cytoplasmic Domain of the Integrin $\alpha 4$ Subunit in Nonlethal Forms of Epidermolysis Bullosa Prevent Interaction of $\alpha 4$ with Plectin. <i>Journal of Investigative Dermatology</i> , 2001, 117, 1405-1411.	0.3	49
56	Dual Role of $\alpha 4$ Integrin in Epidermal Tumor Growth: Tumor-suppressive Versus Tumor-promoting Function. <i>Molecular Biology of the Cell</i> , 2007, 18, 4210-4221.	0.9	49
57	Nesprin-3: a versatile connector between the nucleus and the cytoskeleton. <i>Biochemical Society Transactions</i> , 2011, 39, 1719-1724.	1.6	48
58	Specificity of Binding of the Plectin Actin-binding Domain to $\alpha 4$ Integrin. <i>Molecular Biology of the Cell</i> , 2003, 14, 4039-4050.	0.9	46
59	Epigenetic Regulation of Galectin-3 Expression by $\alpha 1$ Integrins Promotes Cell Adhesion and Migration. <i>Journal of Biological Chemistry</i> , 2012, 287, 44684-44693.	1.6	46
60	Tetraspanin CD151 maintains vascular stability by balancing the forces of cell adhesion and cytoskeletal tension. <i>Blood</i> , 2011, 118, 4274-4284.	0.6	45
61	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, 12429-12438.	1.6	43
62	Phosphorylation of threonine 1736 in the C-terminal tail of integrin $\alpha 4$ contributes to hemidesmosome disassembly. <i>Molecular Biology of the Cell</i> , 2012, 23, 1475-1485.	0.9	43
63	Nesprin-3 augments peripheral nuclear localization of intermediate filaments in zebrafish. <i>Journal of Cell Science</i> , 2011, 124, 755-764.	1.2	42
64	Mechanisms of integrin $\alpha 5$ clustering in flat clathrin lattices. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	42
65	Expression of $\alpha 1$ Integrin Splicing Variants during Skeletal Muscle Regeneration. <i>American Journal of Pathology</i> , 2002, 161, 1023-1031.	1.9	38
66	Combination of X-ray crystallography, SAXS and DEER to obtain the structure of the FnIII-3,4 domains of integrin $\alpha 4$. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 969-985.	2.5	38
67	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, 143-161.	1.7	36
68	The Structure of the Plakin Domain of Plectin Reveals an Extended Rod-like Shape. <i>Journal of Biological Chemistry</i> , 2016, 291, 18643-18662.	1.6	36
69	Structure of the Calx- $\alpha 2$ domain of the integrin $\alpha 4$ subunit: insights into function and cation-independent stability. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2009, 65, 858-871.	2.5	33
70	The molecular architecture of hemidesmosomes as revealed by super-resolution microscopy. <i>Journal of Cell Science</i> , 2015, 128, 3714-9.	1.2	32
71	Determination of proteinase 3- $\alpha 1$ -antitrypsin complexes in inflammatory fluids. <i>FEBS Letters</i> , 1992, 314, 117-121.	1.3	30
72	Expression of the Orphan Protein Plet-1 during Trichilemmal Differentiation of Anagen Hair Follicles. <i>Journal of Investigative Dermatology</i> , 2010, 130, 1500-1513.	0.3	30

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73	The laminin binding $\alpha 3$ and $\alpha 6$ integrins cooperate to promote epithelial cell adhesion and growth. <i>Matrix Biology</i> , 2019, 77, 101-116.	1.5	30
74	Kindlin-1 Regulates Integrin Dynamics and Adhesion Turnover. <i>PLoS ONE</i> , 2013, 8, e65341.	1.1	29
75	Conditional Deletion of the <i>Itgb4</i> Integrin Gene in Schwann Cells Leads to Delayed Peripheral Nerve Regeneration. <i>Journal of Neuroscience</i> , 2008, 28, 11292-11303.	1.7	27
76	Integrin $\alpha 3 \beta 1$ regulates kidney collecting duct development via TRAF6-dependent K63-linked polyubiquitination of Akt. <i>Molecular Biology of the Cell</i> , 2015, 26, 1857-1874.	0.9	27
77	BPAG1 isoform-b: Complex distribution pattern in striated and heart muscle and association with plectin and α -actinin. <i>Experimental Cell Research</i> , 2010, 316, 297-313.	1.2	25
78	Integrin $\alpha 6$ maintains the structural integrity of the kidney collecting system. <i>Matrix Biology</i> , 2017, 57-58, 244-257.	1.5	24
79	The Unique Cytoplasmic Domain of the Human Integrin Variant $\beta 4 E$ Is Produced by Partial Retention of Intronic Sequences. <i>Biochemical and Biophysical Research Communications</i> , 1997, 235, 826-830.	1.0	22
80	Regulation of hemidesmosome dynamics and cell signaling by integrin $\alpha 6 \beta 4$. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	22
81	Tetraspanin CD151 and integrin $\alpha 3 \beta 1$ contribute to the stabilization of integrin $\alpha 6 \beta 4$ -containing cell-matrix adhesions. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	21
82	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 $\beta 4$ Integrin. <i>Journal of Biological Chemistry</i> , 2005, 280, 22270-22277.	1.6	18
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, 2402-2417.	0.9	18
84	Laminin-binding integrins are essential for the maintenance of functional mammary secretory epithelium in lactation. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	17
85	The nesprin-cytoskeleton interface probed directly on single nuclei is a mechanically rich system. <i>Nucleus</i> , 2017, 8, 534-547.	0.6	16
86	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, 2180-2190.	0.3	15
87	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.	0.3	15
88	Truncated Type XVII Collagen Expression in a Patient with Non-Herlitz Junctional Epidermolysis Bullosa Caused by a Homozygous Splice-Site Mutation. <i>Laboratory Investigation</i> , 2001, 81, 887-894.	1.7	14
89	Absence of integrin $\alpha 3 \beta 1$ promotes the progression of HER2-driven breast cancer in vivo. <i>Breast Cancer Research</i> , 2019, 21, 63.	2.2	14
90	Integrin $\alpha 3 \beta 1$ Is a Key Regulator of Several Protumorigenic Pathways during Skin Carcinogenesis. <i>Journal of Investigative Dermatology</i> , 2021, 141, 732-741.e6.	0.3	12

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91	Integrin $\alpha 6 \beta 4$ Recognition of a Linear Motif of Bullous Pemphigoid Antigen BP230 Controls Its Recruitment to Hemidesmosomes. <i>Structure</i> , 2019, 27, 952-964.e6.	1.6	11
92	Comparative interactomics analysis reveals potential regulators of $\alpha 6 \beta 4$ distribution in keratinocytes. <i>Biology Open</i> , 2020, 9, .	0.6	11
93	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.	2.4	10
94	Carbonic Anhydrase 5 Regulates Acid-Base Homeostasis in Zebrafish. <i>PLoS ONE</i> , 2012, 7, e39881.	1.1	9
95	PKD2 and RSK1 Regulate Integrin $\alpha 4$ Phosphorylation at Threonine 1736. <i>PLoS ONE</i> , 2015, 10, e0143357.	1.1	7
96	Molecular determinants of $\alpha 5 \beta 1$ localization in flat clathrin lattices – role of $\alpha 5 \beta 1$ in cell adhesion and proliferation. <i>Journal of Cell Science</i> , 2022, 135, .	1.2	6
97	The regulation of MacMARCKS expression by integrin $\alpha 3$. <i>Experimental Cell Research</i> , 2007, 313, 1260-1269.	1.2	5
98	Integrin $\alpha 3 \beta 1$ in hair bulge stem cells modulates CCN2 expression and promotes skin tumorigenesis. <i>Life Science Alliance</i> , 2020, 3, e202000645.	1.3	5
99	PEAK1 Y635 phosphorylation regulates cell migration through association with Tensin3 and integrins. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	5
100	Investigation into the mechanism regulating MRP localization. <i>Experimental Cell Research</i> , 2008, 314, 330-341.	1.2	4
101	EGFR-dependent tyrosine phosphorylation of integrin $\alpha 4$ is not required for downstream signaling events in cancer cell lines. <i>Scientific Reports</i> , 2021, 11, 8675.	1.6	4
102	The laminin-binding integrins regulate nuclear factor κB -dependent epithelial cell polarity and inflammation. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	4
103	Editorial overview. <i>Current Opinion in Cell Biology</i> , 2011, 23, 505-507.	2.6	2