

Sara A Wickström

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

5,177
citations

94269

37
h-index

110170

64
g-index

74
all docs

74
docs citations

74
times ranked

7644
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic and cell biological analysis of integrin outside-in signaling. <i>Genes and Development</i> , 2009, 23, 397-418.	2.7	637
2	Mechanical regulation of transcription controls Polycomb-mediated gene silencing during lineage commitment. <i>Nature Cell Biology</i> , 2016, 18, 864-875.	4.6	364
3	Heterochromatin-Driven Nuclear Softening Protects the Genome against Mechanical Stress-Induced Damage. <i>Cell</i> , 2020, 181, 800-817.e22.	13.5	341
4	The ILK/PINCH/parvin complex: the kinase is dead, long live the pseudokinase!. <i>EMBO Journal</i> , 2010, 29, 281-291.	3.5	229
5	Adhesion forces and cortical tension couple cell proliferation and differentiation to drive epidermal stratification. <i>Nature Cell Biology</i> , 2018, 20, 69-80.	4.6	207
6	Endostatin associates with integrin alpha5beta1 and caveolin-1, and activates Src via a tyrosyl phosphatase-dependent pathway in human endothelial cells. <i>Cancer Research</i> , 2002, 62, 5580-9.	0.4	161
7	Integrin-Linked Kinase Controls Microtubule Dynamics Required for Plasma Membrane Targeting of Caveolae. <i>Developmental Cell</i> , 2010, 19, 574-588.	3.1	154
8	Emerging roles of mechanical forces in chromatin regulation. <i>Journal of Cell Science</i> , 2017, 130, 2243-2250.	1.2	152
9	Regulation of Membrane-type-1 Matrix Metalloproteinase Activity by Its Cytoplasmic Domain. <i>Journal of Biological Chemistry</i> , 2000, 275, 15006-15013.	1.6	149
10	CYLD negatively regulates cell-cycle progression by inactivating HDAC6 and increasing the levels of acetylated tubulin. <i>EMBO Journal</i> , 2010, 29, 131-144.	3.5	148
11	E-cadherin integrates mechanotransduction and EGFR signaling to control junctional tissue polarization and tight junction positioning. <i>Nature Communications</i> , 2017, 8, 1250.	5.8	147
12	Signaling in the stem cell niche: regulating cell fate, function and plasticity. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	143
13	Solid Tumor Proteome and Phosphoproteome Analysis by High Resolution Mass Spectrometry. <i>Journal of Proteome Research</i> , 2008, 7, 5314-5326.	1.8	132
14	Integrin-linked kinase is an adaptor with essential functions during mouse development. <i>Nature</i> , 2009, 461, 1002-1006.	13.7	123
15	Endostatin Associates with Lipid Rafts and Induces Reorganization of the Actin Cytoskeleton via Down-regulation of RhoA Activity. <i>Journal of Biological Chemistry</i> , 2003, 278, 37895-37901.	1.6	114
16	Adherens Junctions and Desmosomes Coordinate Mechanics and Signaling to Orchestrate Tissue Morphogenesis and Function: An Evolutionary Perspective. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a029207.	2.3	102
17	An Endostatin-derived Peptide Interacts with Integrins and Regulates Actin Cytoskeleton and Migration of Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 20178-20185.	1.6	101
18	Binding of Endostatin to Phosphatidylserine-Containing Membranes and Formation of Amyloid-like Fibers. <i>Biochemistry</i> , 2005, 44, 2857-2863.	1.2	95

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19	Integrin-linked kinase stabilizes myotendinous junctions and protects muscle from stress-induced damage. <i>Journal of Cell Biology</i> , 2008, 180, 1037-1049.	2.3	91
20	In Vivo SILAC-Based Proteomics Reveals Phosphoproteome Changes during Mouse Skin Carcinogenesis. <i>Cell Reports</i> , 2013, 3, 552-566.	2.9	90
21	Integrin-linked kinase regulates the niche of quiescent epidermal stem cells. <i>Nature Communications</i> , 2015, 6, 8198.	5.8	83
22	The late endosomal p14 ^{MP1} (LAMTOR2/3) complex regulates focal adhesion dynamics during cell migration. <i>Journal of Cell Biology</i> , 2014, 205, 525-540.	2.3	82
23	Î±-parvin controls vascular mural cell recruitment to vessel wall by regulating RhoA/ROCK signalling. <i>EMBO Journal</i> , 2009, 28, 3132-3144.	3.5	81
24	Genetic Analyses of Integrin Signaling. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a005116-a005116.	2.3	81
25	TGFB1 is secreted through an unconventional pathway dependent on the autophagic machinery and cytoskeletal regulators. <i>Autophagy</i> , 2018, 14, 465-486.	4.3	80
26	Cell adhesion and mechanics as drivers of tissue organization and differentiation: local cues for large scale organization. <i>Current Opinion in Cell Biology</i> , 2018, 54, 89-97.	2.6	72
27	Hair follicle stem cell cultures reveal self-organizing plasticity of stem cells and their progeny. <i>EMBO Journal</i> , 2017, 36, 151-164.	3.5	70
28	Mechanical Forces in the Skin: Roles in Tissue Architecture, Stability, and Function. <i>Journal of Investigative Dermatology</i> , 2020, 140, 284-290.	0.3	67
29	Defining the Design Principles of Skin Epidermis Postnatal Growth. <i>Cell</i> , 2020, 181, 604-620.e22.	13.5	65
30	ILK: a pseudokinase with a unique function in the integrin-actin linkage. <i>Biochemical Society Transactions</i> , 2013, 41, 995-1001.	1.6	64
31	Mechanical regulation of chromatin and transcription. <i>Nature Reviews Genetics</i> , 2022, 23, 624-643.	7.7	64
32	YAP-mediated mechanotransduction determines the podocyte's response to damage. <i>Science Signaling</i> , 2017, 10, .	1.6	61
33	Glutamine Metabolism Controls Stem Cell Fate Reversibility and Long-Term Maintenance in the Hair Follicle. <i>Cell Metabolism</i> , 2020, 32, 629-642.e8.	7.2	60
34	Regulation of membrane traffic by integrin signaling. <i>Trends in Cell Biology</i> , 2011, 21, 266-273.	3.6	59
35	Stabilization of integrin-linked kinase by the Hsp90-CHIP axis impacts cellular force generation, migration and the fibrotic response. <i>EMBO Journal</i> , 2013, 32, 1409-1424.	3.5	59
36	Niche stiffening compromises hair follicle stem cell potential during ageing by reducing bivalent promoter accessibility. <i>Nature Cell Biology</i> , 2021, 23, 771-781.	4.6	51

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37	Endostatin Signaling and Regulation of Endothelial Cell-Matrix Interactions. <i>Advances in Cancer Research</i> , 2005, 94, 197-229.	1.9	46
38	The promotion of endothelial cell attachment and spreading using FNIII10 fused to VEGF-A165. <i>Biomaterials</i> , 2013, 34, 5958-5968.	5.7	39
39	Epigenetic gene regulation, chromatin structure, and force-induced chromatin remodelling in epidermal development and homeostasis. <i>Current Opinion in Genetics and Development</i> , 2019, 55, 46-51.	1.5	35
40	Somatic Niche Cells Regulate the CEP-1/p53-Mediated DNA Damage Response in Primordial Germ Cells. <i>Developmental Cell</i> , 2019, 50, 167-183.e8.	3.1	33
41	Mechanical Forces in Nuclear Organization. <i>Cold Spring Harbor Perspectives in Biology</i> , 2022, 14, a039685.	2.3	28
42	Epidermal mammalian target of rapamycin complex 2 controls lipid synthesis and filaggrin processing in epidermal barrier formation. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 145, 283-300.e8.	1.5	24
43	Mechanochemical control of epidermal stem cell divisions by B-plexins. <i>Nature Communications</i> , 2021, 12, 1308.	5.8	24
44	Deletion of integrin linked kinase in endothelial cells results in defective RTK signaling caused by caveolin 1 mislocalization. <i>Development (Cambridge)</i> , 2013, 140, 987-995.	1.2	21
45	Hydrostatic pressure prevents chondrocyte differentiation through heterochromatin remodeling. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	17
46	Calcium signaling mediates a biphasic mechanoadaptive response of endothelial cells to cyclic mechanical stretch. <i>Molecular Biology of the Cell</i> , 2021, 32, 1724-1736.	0.9	16
47	Invasion of Herpes Simplex Virus Type 1 into Murine Epidermis: An Ex Vivo Infection Study. <i>Journal of Investigative Dermatology</i> , 2015, 135, 3009-3016.	0.3	15
48	ILK Induction in Lymphoid Organs by a TNF-Regulated Pathway Promotes the Development of Chronic Lymphocytic Leukemia. <i>Cancer Research</i> , 2016, 76, 2186-2196.	0.4	13
49	Lipodystrophic laminopathy: Lamin A mutation relaxes chromatin architecture to impair adipogenesis. <i>Journal of Cell Biology</i> , 2017, 216, 2607-2610.	2.3	13
50	1-acetylspermidine is a determinant of hair follicle stem cell fate. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	11
51	Laminin 332 Is Indispensable for Homeostatic Epidermal Differentiation Programs. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2602-2610.e3.	0.3	11
52	Matrix reloaded to circulation hits the tumor target. <i>Cancer Cell</i> , 2003, 3, 513-514.	7.7	8
53	Role of integrin signalling through integrin-linked kinase in skin physiology and pathology. <i>Experimental Dermatology</i> , 2014, 23, 453-456.	1.4	7
54	Cell influx and contractile actomyosin force drive mammary bud growth and invagination. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	7

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55	Force generation and transmission in keloid fibroblasts: dissecting the role of mechanosensitive molecules in cell function. <i>Experimental Dermatology</i> , 2015, 24, 574-575.	1.4	5
56	ATP allosterically stabilizes integrin-linked kinase for efficient force generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2106098119.	3.3	5
57	Shaping the stem cell field. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 305-305.	16.1	4
58	The weakest link: A new paradigm for stabilizing the integrin-actin connection. <i>Cell Cycle</i> , 2013, 12, 2929-2930.	1.3	3
59	Cell biology and mechanopathology of laminopathic cardiomyopathies. <i>Journal of Cell Biology</i> , 2019, 218, 393-394.	2.3	3
60	Special issue on "mechanotransduction in cell fate determination" From molecular switches to organ-level regulation. <i>Experimental Cell Research</i> , 2019, 382, 111452.	1.2	3
61	Integrins Anchor the Invasive Machinery. <i>Developmental Cell</i> , 2009, 17, 158-160.	3.1	1
62	BETting against wound healing. <i>Nature Chemical Biology</i> , 2021, 17, 233-235.	3.9	1
63	How cancer invasion takes shape. <i>Nature</i> , 2020, 585, 355-356.	13.7	1
64	Stretched skin cells divide without DNA replication. <i>Nature</i> , 2022, 605, 31-32.	13.7	1
65	Editorial overview: Cell differentiation and development "wiring principles of transcriptional states, signaling networks and cell fate trajectories. <i>Current Opinion in Cell Biology</i> , 2019, 61, iii-vi.	2.6	0
66	A Niche Above: A Novel Modality of Stem Cell Regulation in Mammalian Skin Epidermis. <i>Cell Stem Cell</i> , 2021, 28, 365-366.	5.2	0
67	Regulation of membrane-type-1 matrix metalloproteinase activity by its cytoplasmic domain. Vol. 275 (2000) 15006-15013. <i>Journal of Biological Chemistry</i> , 2004, 279, 40246.	1.6	0
68	What doesn't kill you makes you differentiate. <i>Developmental Cell</i> , 2021, 56, 3303-3304.	3.1	0