

Guido Serini

List of Publications by Year in descending order

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85
papers

6,118
citations

81900
39
h-index

69250
77
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143
all docs

143
docs citations

143
times ranked

8153
citing authors

#	ARTICLE	IF	CITATIONS
1	The Fibronectin Domain ED-A Is Crucial for Myofibroblastic Phenotype Induction by Transforming Growth Factor- β 1. <i>Journal of Cell Biology</i> , 1998, 142, 873-881.	5.2	741
2	Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function. <i>Nature</i> , 2003, 424, 391-397.	27.8	546
3	Mechanisms of Myofibroblast Activity and Phenotypic Modulation. <i>Experimental Cell Research</i> , 1999, 250, 273-283.	2.6	536
4	Modeling the early stages of vascular network assembly. <i>EMBO Journal</i> , 2003, 22, 1771-1779.	7.8	280
5	Neuropilin-1/GIPC1 Signaling Regulates β 1 Integrin Traffic and Function in Endothelial Cells. <i>PLoS Biology</i> , 2009, 7, e1000025.	5.6	246
6	Sema4D induces angiogenesis through Met recruitment by Plexin B1. <i>Blood</i> , 2005, 105, 4321-4329.	1.4	226
7	Percolation, Morphogenesis, and Burgers Dynamics in Blood Vessels Formation. <i>Physical Review Letters</i> , 2003, 90, 118101.	7.8	222
8	Integrins and angiogenesis: A sticky business. <i>Experimental Cell Research</i> , 2006, 312, 651-658.	2.6	186
9	Semaphorin 3A is an endogenous angiogenesis inhibitor that blocks tumor growth and normalizes tumor vasculature in transgenic mouse models. <i>Journal of Clinical Investigation</i> , 2009, 119, 3356-72.	8.2	167
10	Stable interaction between β 1 integrin and Tie2 tyrosine kinase receptor regulates endothelial cell response to Ang-1. <i>Journal of Cell Biology</i> , 2005, 170, 993-1004.	5.2	162
11	Tivantinib (ARQ197) Displays Cytotoxic Activity That Is Independent of Its Ability to Bind MET. <i>Clinical Cancer Research</i> , 2013, 19, 2381-2392.	7.0	157
12	Semaphorin 3A overcomes cancer hypoxia and metastatic dissemination induced by antiangiogenic treatment in mice. <i>Journal of Clinical Investigation</i> , 2012, 122, 1832-1848.	8.2	154
13	In vivo activation of JAK2/STAT β pathway during angiogenesis induced by GM-CSF. <i>FASEB Journal</i> , 2002, 16, 1-19.	0.5	126
14	Growth Factor-dependent Activation of β 3 Integrin in Normal Epithelial Cells: Implications for Tumor Invasion. <i>Journal of Cell Biology</i> , 1998, 142, 1145-1156.	5.2	110
15	Endothelial podosome rosettes regulate vascular branching in tumour angiogenesis. <i>Nature Cell Biology</i> , 2014, 16, 931-941.	10.3	107
16	The R-Ras/RIN2/Rab5 complex controls endothelial cell adhesion and morphogenesis via active integrin endocytosis and Rac signaling. <i>Cell Research</i> , 2012, 22, 1479-1501.	12.0	97
17	Changes in Integrin and E-Cadherin Expression in Neoplastic Versus Normal Thyroid Tissue. <i>Journal of the National Cancer Institute</i> , 1996, 88, 442-449.	6.3	93
18	Diffusion-limited phase separation in eukaryotic chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16927-16932.	7.1	85

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19	Neuropilin-1â€“Dependent Regulation of EGF-Receptor Signaling. <i>Cancer Research</i> , 2012, 72, 5801-5811.	0.9	84
20	Loss of inhibitory semaphorin 3A (SEMA3A) autocrine loops in bone marrow endothelial cells of patients with multiple myeloma. <i>Blood</i> , 2006, 108, 1661-1667.	1.4	79
21	PPFIA1 drives active $\beta 1$ integrin recycling and controls fibronectin fibrillogenesis and vascular morphogenesis. <i>Nature Communications</i> , 2016, 7, 13546.	12.8	72
22	Modulation of alpha-smooth muscle actin expression in fibroblasts by transforming growth factor-beta isoforms: an in vivo and in vitro study. <i>Wound Repair and Regeneration</i> , 1996, 4, 278-287.	3.0	70
23	AP β and AP γ regulate tumor progression via specific genetic programs. <i>FASEB Journal</i> , 2008, 22, 2702-2714.	0.5	69
24	TRPM8 inhibits endothelial cell migration via a non-channel function by trapping the small GTPase Rap1. <i>Journal of Cell Biology</i> , 2017, 216, 2107-2130.	5.2	66
25	Temporal and Spatial Modulation of Rho GTPases during in Vitro Formation of Capillary Vascular Network. <i>Journal of Biological Chemistry</i> , 2003, 278, 50702-50713.	3.4	64
26	Overexpression of the C-MET/HGF receptor in human thyroid carcinomas derived from the follicular epithelium. <i>Journal of Endocrinological Investigation</i> , 1995, 18, 134-139.	3.3	63
27	Interactions between endothelial cells and HIV-1. <i>International Journal of Biochemistry and Cell Biology</i> , 2001, 33, 371-390.	2.8	59
28	Diacylglycerol kinase β mediates HGF-induced Rac activation and membrane ruffling by regulating atypical PKC and RhoGDI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4182-4187.	7.1	58
29	Tie-2â€“dependent activation of RhoA and Rac1 participates in endothelial cell motility triggered by angiopoietin-1. <i>Blood</i> , 2003, 102, 2482-2490.	1.4	57
30	Axonal precursor miRNA s hitchhike on endosomes and locally regulate the development of neural circuits. <i>EMBO Journal</i> , 2020, 39, e102513.	7.8	57
31	Cell Directional and chemotaxis in vascular morphogenesis. <i>Bulletin of Mathematical Biology</i> , 2004, 66, 1851-1873.	1.9	55
32	Besides adhesion: new perspectives of integrin functions in angiogenesis. <i>Cardiovascular Research</i> , 2008, 78, 213-222.	3.8	55
33	Neuropilin-1 Identifies a Subset of Bone Marrow Gr1 ⁺ Monocytes That Can Induce Tumor Vessel Normalization and Inhibit Tumor Growth. <i>Cancer Research</i> , 2012, 72, 6371-6381.	0.9	51
34	Semaphoring Vascular Morphogenesis. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2006, 13, 81-91.	1.7	49
35	Integrin signaling and lung cancer. <i>Cell Adhesion and Migration</i> , 2010, 4, 124-129.	2.7	47
36	Semaphorins and tumor angiogenesis. <i>Angiogenesis</i> , 2009, 12, 187-193.	7.2	46

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37	A rationally designed NRP1-independent superagonist SEMA3A mutant is an effective anticancer agent. Science Translational Medicine, 2018, 10, .	12.4	46
38	Regulation of adhesion site dynamics by integrin traffic. Current Opinion in Cell Biology, 2012, 24, 582-591.	5.4	45
39	Polarity, cell division, and out-of-equilibrium dynamics control the growth of epithelial structures. Journal of Cell Biology, 2013, 203, 359-372.	5.2	45
40	The vesicular SNARE Synaptobrevin is required for Semaphorin 3A axonal repulsion. Journal of Cell Biology, 2012, 196, 37-46.	5.2	44
41	The GTPase-Activating Protein Rho Controls Focal Adhesion Turnover and Cell Migration. Current Biology, 2013, 23, 2355-2364.	3.9	42
42	Class 3 semaphorins in cardiovascular development. Cell Adhesion and Migration, 2016, 10, 641-651.	2.7	40
43	Common Cues in Vascular and Axon Guidance. Physiology, 2004, 19, 348-354.	3.1	39
44	Class 3 semaphorins: physiological vascular normalizing agents for anti-cancer therapy. Journal of Internal Medicine, 2013, 273, 138-155.	6.0	37
45	A Bistable Model of Cell Polarity. PLoS ONE, 2012, 7, e30977.	2.5	33
46	Conformationally active integrin endocytosis and traffic: why, where, when and how?. Biochemical Society Transactions, 2020, 48, 83-93.	3.4	30
47	Nervous vascular parallels: axon guidance and beyond. International Journal of Developmental Biology, 2011, 55, 439-445.	0.6	27
48	Dynamic modules and heterogeneity of function: a lesson from tyrosine kinase receptors in endothelial cells. EMBO Reports, 2001, 2, 763-767.	4.5	25
49	Integrins team up with tyrosine kinase receptors and plexins to control angiogenesis. Current Opinion in Hematology, 2008, 15, 235-242.	2.5	25
50	Distinct retrograde microtubule motor sets drive early and late endosome transport. EMBO Journal, 2020, 39, e103661.	7.8	22
51	Linifanib: current status and future potential in cancer therapy. Expert Review of Anticancer Therapy, 2015, 15, 677-687.	2.4	21
52	The roles of integrins in cancer. Faculty Reviews, 2021, 10, 45.	3.9	21
53	Integrins: A flexible platform for endothelial vascular tyrosine kinase receptors. Autoimmunity Reviews, 2007, 7, 18-22.	5.8	17
54	Microenvironment drives the endothelial or neural fate of differentiating embryonic stem cells coexpressing neuropilin-1 and Flk-1. FASEB Journal, 2009, 23, 68-78.	0.5	17

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55	Class 3 Semaphorin in Angiogenesis and Lymphangiogenesis. Chemical Immunology and Allergy, 2014, 99, 71-88.	1.7	15
56	LPHN2 inhibits vascular permeability by differential control of endothelial cell adhesion. Journal of Cell Biology, 2021, 220, .	5.2	15
57	Peritoneal and hematogenous metastases of ovarian cancer cells are both controlled by the p90RSK through a self-reinforcing cell autonomous mechanism. Oncotarget, 2016, 7, 712-728.	1.8	13
58	Sema3F (Semaphorin 3F) Selectively Drives an Extraembryonic Proangiogenic Program. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1710-1721.	2.4	12
59	3D simulations of early blood vessel formation. Journal of Computational Physics, 2007, 225, 2283-2300.	3.8	11
60	Increasing traffic on vascular routes. Molecular Aspects of Medicine, 2011, 32, 112-122.	6.4	11
61	Bad vessels beware! Semaphorins will sort you out!. EMBO Molecular Medicine, 2015, 7, 1251-1253.	6.9	11
62	Symmetry breaking mechanism for epithelial cell polarization. Physical Review E, 2009, 80, 031919.	2.1	10
63	TFEB controls integrin-mediated endothelial cell adhesion by the regulation of cholesterol metabolism. Angiogenesis, 2022, 25, 471-492.	7.2	10
64	Angiogenesis: a balancing act between integrin activation and inhibition?. European Cytokine Network, 2009, 20, 191-196.	2.0	9
65	Regulation of integrins by conformation and traffic: it takes two to tango. Molecular BioSystems, 2011, 7, 2539.	2.9	8
66	Optimality in Self-Organized Molecular Sorting. Physical Review Letters, 2021, 126, 088101.	7.8	7
67	MET ⁺ 14 promotes a ligand-dependent, AKT-driven invasive growth. Life Science Alliance, 2022, 5, e202201409.	2.8	7
68	A Simulation Environment for Directional Sensing as a Phase Separation Process. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pl1-pl1.	3.9	6
69	Rhomboid-Like-2 Intramembrane Protease Mediates Metalloprotease-Independent Regulation of Cadherins. International Journal of Molecular Sciences, 2019, 20, 5958.	4.1	6
70	Tumoral Neuroligin 1 Promotes Cancer Nerve Interactions and Synergizes with the Glial Cell Line-Derived Neurotrophic Factor. Cells, 2022, 11, 280.	4.1	6
71	Role of repulsive factors in vascularization dynamics. Physical Review E, 2006, 73, 041917.	2.1	5
72	Angiogenesis: The Importance of RHOJ-Mediated Trafficking of Active Integrins. Current Biology, 2020, 30, R652-R654.	3.9	5

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73	Tracking endothelial cells during blood vessel networks assembly using active contours. , 0, , .		4
74	Embryonic cleavage modeling as a computational approach to sphere packing problem. Journal of Theoretical Biology, 2007, 245, 77-82.	1.7	4
75	An Electrical Impedance-Based Method for Quantitative Real-Time Analysis of Semaphorin-Elicited Endothelial Cell Collapse. Methods in Molecular Biology, 2017, 1493, 195-207.	0.9	4
76	Kinesin-2 Controls the Motility of RAB5 Endosomes and Their Association with the Spindle in Mitosis. International Journal of Molecular Sciences, 2018, 19, 2575.	4.1	4
77	ESDN inhibits melanoma progression by blocking E-selectin expression in endothelial cells via STAT3. Cancer Letters, 2021, 510, 13-23.	7.2	4
78	Loss of E-cadherin tyrosine phosphorylation in human cancers. Trends in Molecular Medicine, 1999, 5, 336.	2.6	2
79	Quantifying Polarized Extracellular Matrix Secretion in Cultured Endothelial Cells. Methods in Molecular Biology, 2021, 2217, 301-311.	0.9	2
80	Modelling of 3D Early Blood Vessel Formation: Simulations and Morphological Analysis. AIP Conference Proceedings, 2008, , .	0.4	1
81	Endocytosis and Exocytosis in Signal Transduction and in Cell Migration. , 0, , .		0
82	A Computational Model for Eukaryotic Directional Sensing. Lecture Notes in Computer Science, 2006, , 184-195.	1.3	0
83	Abstract SY41-04: Targeting Semaphorin 3A: A new tool to normalize tumor vasculature and to overcome the evasive resistance to the anti-angiogenic therapy. , 2012, , .		0
84	Polarity, cell division, and out-of-equilibrium dynamics control the growth of epithelial structures. Journal of General Physiology, 2013, 142, 1425OIA43.	1.9	0
85	Abstract 3372: Semaphorin 3A normalizes the tumor vasculature and impairs tumor progression in a Nrp-1-independent manner. , 2016, , .		0