Guido Serini

List of Publications by Year
in descending order

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85	6,118	81743	69108
papers	citations	39 h-index	77 g-index

143	143	143	8153
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Fibronectin Domain ED-A Is Crucial for Myofibroblastic Phenotype Induction by Transforming Growth Factor-Î²1. Journal of Cell Biology, 1998, 142, 873-881.	2.3	741
2	Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function. Nature, 2003, 424, 391-397.	13.7	546
3	Mechanisms of Myofibroblast Activity and Phenotypic Modulation. Experimental Cell Research, 1999, 250, 273-283.	1.2	536
4	Modeling the early stages of vascular network assembly. EMBO Journal, 2003, 22, 1771-1779.	3.5	280
5	Neuropilin-1/GIPC1 Signaling Regulates Î±5Î²1 Integrin Traffic and Function in Endothelial Cells. PLoS Biology, 2009, 7, e1000025.	2.6	246
6	Sema4D induces angiogenesis through Met recruitment by Plexin B1. Blood, 2005, 105, 4321-4329.	0.6	226
7	Percolation, Morphogenesis, and Burgers Dynamics in Blood Vessels Formation. Physical Review Letters, 2003, 90, 118101.	2.9	222
8	Integrins and angiogenesis: A sticky business. Experimental Cell Research, 2006, 312, 651-658.	1.2	186
9	Semaphorin 3A is an endogenous angiogenesis inhibitor that blocks tumor growth and normalizes tumor vasculature in transgenic mouse models. Journal of Clinical Investigation, 2009, 119, 3356-72.	3.9	167
10	Stable interaction between Î±5Î²1 integrin and Tie2 tyrosine kinase receptor regulates endothelial cell response to Ang-1. Journal of Cell Biology, 2005, 170, 993-1004.	2.3	162
11	Tivantinib (ARQ197) Displays Cytotoxic Activity That Is Independent of Its Ability to Bind MET. Clinical Cancer Research, 2013, 19, 2381-2392.	3.2	157
12	Semaphorin 3A overcomes cancer hypoxia and metastatic dissemination induced by antiangiogenic treatment in mice. Journal of Clinical Investigation, 2012, 122, 1832-1848.	3.9	154
13	In vivoactivation of JAK2/STATâ€3 pathway during angiogenesis induced by GMâ€CSF. FASEB Journal, 2002, 16, 1-19.	0.2	126
14	Growth Factorâ€“dependent Activation of Î±vÎ²3 Integrin in Normal Epithelial Cells: Implications for Tumor Invasion. Journal of Cell Biology, 1998, 142, 1145-1156.	2.3	110
15	Endothelial podosome rosettes regulate vascular branching in tumour angiogenesis. Nature Cell Biology, 2014, 16, 931-941.	4.6	107
16	The R-Ras/RIN2/Rab5 complex controls endothelial cell adhesion and morphogenesis via active integrin endocytosis and Rac signaling. Cell Research, 2012, 22, 1479-1501.	5.7	97
17	Changes in Integrin and E-Cadherin Expression in Neoplastic Versus Normal Thyroid Tissue. Journal of the National Cancer Institute, 1996, 88, 442-449.	3.0	93
18	Diffusion-limited phase separation in eukaryotic chemotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16927-16932.	3.3	85

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19	Neuropilin-1â€“Dependent Regulation of EGF-Receptor Signaling. Cancer Research, 2012, 72, 5801-5811.	0.4	84
20	Loss of inhibitory semaphorin 3A (SEMA3A) autocrine loops in bone marrow endothelial cells of patients with multiple myeloma. Blood, 2006, 108, 1661-1667.	0.6	79
21	PPFIA1 drives active Î±5Î²1 integrin recycling and controls fibronectin fibrillogenesis and vascular morphogenesis. Nature Communications, 2016, 7, 13546.	5.8	72
22	Modulation of alpha-smooth muscle actin expression in fibroblasts by transforming growth factor-beta isoforms: an in vivo and in vitro study. Wound Repair and Regeneration, 1996, 4, 278-287.	1.5	70
23	APâ€²Î± and APâ€²Î³ regulate tumor progression via specific genetic programs. FASEB Journal, 2008, 22, 2702-2714.	0.2	69
24	TRPM8 inhibits endothelial cell migration via a non-channel function by trapping the small GTPase Rap1. Journal of Cell Biology, 2017, 216, 2107-2130.	2.3	66
25	Temporal and Spatial Modulation of Rho GTPases during in Vitro Formation of Capillary Vascular Network. Journal of Biological Chemistry, 2003, 278, 50702-50713.	1.6	64
26	Overexpression of the C-MET/HGF receptor in human thyroid carcinomas derived from the follicular epithelium. Journal of Endocrinological Investigation, 1995, 18, 134-139.	1.8	63
27	Interactions between endothelial cells and HIV-1. International Journal of Biochemistry and Cell Biology, 2001, 33, 371-390.	1.2	59
28	Diacylglycerol kinase Î± mediates HGF-induced Rac activation and membrane ruffling by regulating atypical PKC and RhoGDI. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4182-4187.	3.3	58
29	Tie-2â€“dependent activation of RhoA and Rac1 participates in endothelial cell motility triggered by angiopoietin-1. Blood, 2003, 102, 2482-2490.	0.6	57
30	Axonal precursor mi <scp>RNA</scp> s hitchhike on endosomesÂand locally regulate the development of neural circuits. EMBO Journal, 2020, 39, e102513.	3.5	57
31	Cell Directional and chemotaxis in vascular morphogenesis. Bulletin of Mathematical Biology, 2004, 66, 1851-1873.	0.9	55
32	Besides adhesion: new perspectives of integrin functions in angiogenesis. Cardiovascular Research, 2008, 78, 213-222.	1.8	55
33	Neuropilin-1 Identifies a Subset of Bone Marrow Gr1â^' Monocytes That Can Induce Tumor Vessel Normalization and Inhibit Tumor Growth. Cancer Research, 2012, 72, 6371-6381.	0.4	51
34	Semaphoring Vascular Morphogenesis. Endothelium: Journal of Endothelial Cell Research, 2006, 13, 81-91.	1.7	49
35	Integrin signaling and lung cancer. Cell Adhesion and Migration, 2010, 4, 124-129.	1.1	47
36	Semaphorins and tumor angiogenesis. Angiogenesis, 2009, 12, 187-193.	3.7	46

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37	A rationally designed NRP1-independent superagonist SEMA3A mutant is an effective anticancer agent. Science Translational Medicine, 2018, 10, .	5.8	46
38	Regulation of adhesion site dynamics by integrin traffic. Current Opinion in Cell Biology, 2012, 24, 582-591.	2.6	45
39	Polarity, cell division, and out-of-equilibrium dynamics control the growth of epithelial structures. Journal of Cell Biology, 2013, 203, 359-372.	2.3	45
40	The vesicular SNARE Synaptobrevin is required for Semaphorin 3A axonal repulsion. Journal of Cell Biology, 2012, 196, 37-46.	2.3	44
41	The GTPase-Activating Protein RN-tre Controls Focal Adhesion Turnover and Cell Migration. Current Biology, 2013, 23, 2355-2364.	1.8	42
42	Class 3 semaphorins in cardiovascular development. Cell Adhesion and Migration, 2016, 10, 641-651.	1.1	40
43	Common Cues in Vascular and Axon Guidance. Physiology, 2004, 19, 348-354.	1.6	39
44	Class 3 semaphorins: physiological vascular normalizing agents for antiâ€cancer therapy. Journal of Internal Medicine, 2013, 273, 138-155.	2.7	37
45	A Bistable Model of Cell Polarity. PLoS ONE, 2012, 7, e30977.	1.1	33
46	Conformationally active integrin endocytosis and traffic: why, where, when and how?. Biochemical Society Transactions, 2020, 48, 83-93.	1.6	30
47	Nervous vascular parallels: axon guidance and beyond. International Journal of Developmental Biology, 2011, 55, 439-445.	0.3	27
48	Dynamic modules and heterogeneity of function: a lesson from tyrosine kinase receptors in endothelial cells. EMBO Reports, 2001, 2, 763-767.	2.0	25
49	Integrins team up with tyrosine kinase receptors and plexins to control angiogenesis. Current Opinion in Hematology, 2008, 15, 235-242.	1.2	25
50	Distinct retrograde microtubule motor sets drive early and late endosome transport. EMBO Journal, 2020, 39, e103661.	3.5	22
51	Linifanib: current status and future potential in cancer therapy. Expert Review of Anticancer Therapy, 2015, 15, 677-687.	1.1	21
52	The roles of integrins in cancer. Faculty Reviews, 2021, 10, 45.	1.7	21
53	Integrins: A flexible platform for endothelial vascular tyrosine kinase receptors. Autoimmunity Reviews, 2007, 7, 18-22.	2.5	17
54	Microenvironment drives the endothelial or neural fate of differentiating embryonic stem cells coexpressing neuropilinâ€1 and Flkâ€1. FASEB Journal, 2009, 23, 68-78.	0.2	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, .	2.3	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.	0.8	13
58	Sema3F (Semaphorin 3F) Selectively Drives an Extraembryonic Proangiogenic Program. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1710-1721.	1.1	12
59	3D simulations of early blood vessel formation. Journal of Computational Physics, 2007, 225, 2283-2300.	1.9	11
60	Increasing traffic on vascular routes. Molecular Aspects of Medicine, 2011, 32, 112-122.	2.7	11
61	Bad vessels beware! Semaphorins will sort you out!. EMBO Molecular Medicine, 2015, 7, 1251-1253.	3.3	11
62	Symmetry breaking mechanism for epithelial cell polarization. Physical Review E, 2009, 80, 031919.	0.8	10
63	TFEB controls integrin-mediated endothelial cell adhesion by the regulation of cholesterol metabolism. Angiogenesis, 2022, 25, 471-492.	3.7	10
64	Angiogenesis: aÂbalancing act between integrin activation andÂinhibition?. European Cytokine Network, 2009, 20, 191-196.	1.1	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.	2.9	7
67	METâˆ†14 promotes a ligand-dependent, AKT-driven invasive growth. Life Science Alliance, 2022, 5, e202201409.	1.3	7
68	A Simulation Environment for Directional Sensing as a Phase Separation Process. Science's STKE: Signal Transduction Knowledge Environment, 2007, 2007, pl1-pl1.	4.1	6
69	Rhomboid-Like-2 Intramembrane Protease Mediates Metalloprotease-Independent Regulation of Cadherins. International Journal of Molecular Sciences, 2019, 20, 5958.	1.8	6
70	Tumoral Neuroligin 1 Promotes Cancerâ€“Nerve Interactions and Synergizes with the Glial Cell Line-Derived Neurotrophic Factor. Cells, 2022, 11, 280.	1.8	6
71	Role of repulsive factors in vascularization dynamics. Physical Review E, 2006, 73, 041917.	0.8	5
72	Angiogenesis: The Importance of RHOJ-Mediated Trafficking of Active Integrins. Current Biology, 2020, 30, R652-R654.	1.8	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.	0.8	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.	0.4	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.	1.8	4
77	ESDN inhibits melanoma progression by blocking E-selectin expression in endothelial cells via STAT3. Cancer Letters, 2021, 510, 13-23.	3.2	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.	0.4	2
80	Modelling of 3D Early Blood Vessel Formation: Simulations and Morphological Analysis. AIP Conference Proceedings, 2008, , .	0.3	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.	1.0	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.	0.9	0
85	Abstract 3372: Semaphorin 3A normalizes the tumor vasculature and impairs tumor progression in a Nrp-1-independent manner. , 2016, , .		0