Stefania Maria Filomena Mitola

List of Publications by Year
in descending order

100 papers	5,107 citations	117619 34 h-index	88628 70 g-index
101 all docs	101 docs citations	101 times ranked	7409 citing authors

#	Article	IF	Citations
1	Fibroblast growth factor/fibroblast growth factor receptor system in angiogenesis. Cytokine and Growth Factor Reviews, 2005, 16, 159-178.	7.2	1,126
2	Role of Î±vÎ²3 integrin in the activation of vascular endothelial growth factor receptor-2. EMBO Journal, 1999, 18, 882-892.	7.8	562
3	Cutting Edge: Extracellular High Mobility Group Box-1 Protein Is a Proangiogenic Cytokine. Journal of Immunology, 2006, 176, 12-15.	0.8	212
4	Gremlin is a novel agonist of the major proangiogenic receptor VEGFR2. Blood, 2010, 116, 3677-3680.	1.4	163
5	IL-12 Inhibition of Endothelial Cell Functions and Angiogenesis Depends on Lymphocyte-Endothelial Cell Cross-Talk. Journal of Immunology, 2001, 166, 3890-3899.	0.8	157
6	Tumor angiogenesis revisited: Regulators and clinical implications. Medicinal Research Reviews, 2017, 37, 1231-1274.	10.5	138
7	Bone morphogenic protein antagonist Drm/gremlin is a novel proangiogenic factor. Blood, 2007, 109, 1834-1840.	1.4	118
8	Dendritic cellâ€“endothelial cell cross-talk in angiogenesis. Trends in Immunology, 2007, 28, 385-392.	6.8	115
9	Regulation of dendritic cell migration and adaptive immune response by leukotriene B4 receptors: a role for LTB4 in up-regulation of CCR7 expression and function. Blood, 2007, 109, 626-631.	1.4	112
10	Tatâ€“Human Immunodeficiency Virus-1 Induces Human Monocyte Chemotaxis by Activation of Vascular Endothelial Growth Factor Receptor-1. Blood, 1997, 90, 1365-1372.	1.4	103
11	Inhibition of vascular endothelial growth factor receptor 2â€“mediated endothelial cell activation by Axl tyrosine kinase receptor. Blood, 2005, 105, 1970-1976.	1.4	98
12	CCL16 activates an angiogenic program in vascular endothelial cells. Blood, 2004, 103, 40-49.	1.4	85
13	Nonenzymatically glycated albumin (Amadori adducts) enhances nitric oxide synthase activity and gene expression in endothelial cells. Kidney International, 1997, 51, 27-35.	5.2	72
14	Activation of diacylglycerol kinase Î± is required for VEGF-induced angiogenic signaling in vitro. Oncogene, 2004, 23, 4828-4838.	5.9	69
15	A proâ€inflammatory signature mediates FGF2â€induced angiogenesis. Journal of Cellular and Molecular Medicine, 2009, 13, 2083-2108.	3.6	66
16	Identification of Specific Molecular Structures of Human Immunodeficiency Virus Type 1 Tat Relevant for Its Biological Effects on Vascular Endothelial Cells. Journal of Virology, 2000, 74, 344-353.	3.4	62
17	Heparan Sulfate Proteoglycans Mediate the Angiogenic Activity of the Vascular Endothelial Growth Factor Receptor-2 Agonist Gremlin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, e116-27.	2.4	62
18	Nicotine-Induced Structural Plasticity in Mesencephalic Dopaminergic Neurons Is Mediated by Dopamine D3 Receptors and Akt-mTORC1 Signaling. Molecular Pharmacology, 2013, 83, 1176-1189.	2.3	61

#	Article	IF	Citations
19	Interactions between endothelial cells and HIV-1. International Journal of Biochemistry and Cell Biology, 2001, 33, 371-390.	2.8	59
20	Human Immunodeficiency Virus Type 1 Tat Regulates Endothelial Cell Actin Cytoskeletal Dynamics through PAK1 Activation and Oxidant Production. Journal of Virology, 2004, 78, 779-789.	3.4	58
21	IL-12 Regulates an Endothelial Cell-Lymphocyte Network: Effect on Metalloproteinase-9 Production. Journal of Immunology, 2003, 171, 3725-3733.	0.8	56
22	Type I Collagen Limits VEGFR-2 Signaling by a SHP2 Protein-Tyrosine Phosphataseâ€“Dependent Mechanism 1. Circulation Research, 2006, 98, 45-54.	4.5	55
23	Chemically sulfatedEscherichia coliK5 polysaccharide derivatives as extracellular HIV-1 Tat protein antagonists. FEBS Letters, 2004, 568, 171-177.	2.8	50
24	Design, Synthesis, in Vitro, and in Vivo Anticancer and Antiangiogenic Activity of Novel 3-Arylaminobenzofuran Derivatives Targeting the Colchicine Site on Tubulin. Journal of Medicinal Chemistry, 2015, 58, 3209-3222.	6.4	47
25	Fibroblast growth factor 2â€antagonist activity of a longâ€pentraxin 3â€derived antiâ€angiogenic pentapeptide. Journal of Cellular and Molecular Medicine, 2010, 14, 2109-2121.	3.6	46
26	Cyclic Adenosine Monophosphate-Response Elementâ€“Binding Protein Mediates the Proangiogenic or Proinflammatory Activity of Gremlin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 136-145.	2.4	45
27	Integrin Î±VÎ²3as a Target for Blocking HIV-1 Tat-Induced Endothelial Cell Activation In Vitro and Angiogenesis In Vivo. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 2315-2320.	2.4	44
28	Trichostatin A blocks type I interferon production by activated plasmacytoid dendritic cells. Immunobiology, 2010, 215, 756-761.	1.9	43
29	Involvement of Î±vÎ²3 integrin in gremlin-induced angiogenesis. Angiogenesis, 2013, 16, 235-243.	7.2	42
30	The COOH-Terminal Peptide of Platelet Factor-4 Variant (CXCL4L1/PF-4var47-70) Strongly Inhibits Angiogenesis and Suppresses B16 Melanoma Growth In vivo. Molecular Cancer Research, 2010, 8, 322-334.	3.4	41
31	Î±vÎ²3 Integrin-dependent antiangiogenic activity of resveratrol stereoisomers. Molecular Cancer Therapeutics, 2008, 7, 3761-3770.	4.1	40
32	Angiopoietin-1 mediates the proangiogenic activity of the bone morphogenic protein antagonist Drm. Blood, 2008, 112, 1154-1157.	1.4	37
33	Anti-angiogenic activity of the flavonoid precursor 4-hydroxychalcone. European Journal of Pharmacology, 2012, 691, 125-133.	3.5	37
34	Cavin-1 and Caveolin-1 are both required to support cell proliferation, migration and anchorage-independent cell growth in rhabdomyosarcoma. Laboratory Investigation, 2015, 95, 585-602.	3.7	37
35	Antiangiogenic Activity of Semisynthetic Biotechnological Heparins. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 71-76.	2.4	35
36	Monomeric gremlin is a novel vascular endothelial growth factor receptor-2 antagonist. Oncotarget, 2016, 7, 35353-35368.	1.8	34

#	Article	IF	Citations
37	H-ferritin suppression and pronounced mitochondrial respiration make Hepatocellular Carcinoma cells sensitive to RSL3-induced ferroptosis. Free Radical Biology and Medicine, 2021, 169, 294-303.	2.9	34
38	Modulation of Angiogenesis by a Tetrameric Tripeptide That Antagonizes Vascular Endothelial Growth Factor Receptor 1. Journal of Biological Chemistry, 2008, 283, 34250-34259.	3.4	33
39	TR-644 a novel potent tubulin binding agent induces impairment of endothelial cells function and inhibits angiogenesis. Angiogenesis, 2013, 16, 647-662.	7.2	33
40	Cortical Structure Alterations and Social Behavior Impairment in p50-Deficient Mice. Cerebral Cortex, 2016, 26, 2832-2849.	2.9	33
41	Inflammation and N-formyl peptide receptors mediate the angiogenic activity of human vitreous humour in proliferative diabetic retinopathy. Diabetologia, 2017, 60, 719-728.	6.3	33
42	VEGFR2 activation mediates the pro-angiogenic activity of BMP4. Angiogenesis, 2019, 22, 521-533.	7.2	33
43	Role of VEGFs in metabolic disorders. Angiogenesis, 2020, 23, 119-130.	7.2	33
44	Tat-human immunodeficiency virus-1 induces human monocyte chemotaxis by activation of vascular endothelial growth factor receptor-1. Blood, 1997, 90, 1365-72.	1.4	33
45	Sphingosine-1-Phosphate Receptor-1 Controls Venous Endothelial Barrier Integrity in Zebrafish. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, e104-16.	2.4	29
46	Annexin 2A sustains glioblastoma cell dissemination and proliferation. Oncotarget, 2016, 7, 54632-54649.	1.8	29
47	Cu(II) and Zn(II) complexes with hyaluronic acid and its sulphated derivative. Journal of Inorganic Biochemistry, 2000, 81, 229-237.	3.5	27
48	Insulin-like growth factor binding protein-3 is overexpressed in endothelial cells of mouse breast tumor vessels. International Journal of Cancer, 2003, 103, 577-586.	5.1	26
49	Sialic Acid Associated with Î±vÎ²3 Integrin Mediates HIV-1 Tat Protein Interaction and Endothelial Cell Proangiogenic Activation. Journal of Biological Chemistry, 2012, 287, 20456-20466.	3.4	26
50	Dynamic modules and heterogeneity of function: a lesson from tyrosine kinase receptors in endothelial cells. EMBO Reports, 2001, 2, 763-767.	4.5	25
51	Biosafe inertization of municipal solid waste incinerator residues by COSMOS technology. Journal of Hazardous Materials, 2014, 279, 311-321.	12.4	25
52	Role of Nanomechanics in Canonical and Noncanonical Pro-angiogenic Ligand/VEGF Receptor-2 Activation. Journal of the American Chemical Society, 2012, 134, 14573-14579.	13.7	24
53	Usefulness of melatonin as complementary to chemotherapeutic agents at different stages of the angiogenic process. Scientific Reports, 2020, 10, 4790.	3.3	24
54	Alpha-Synuclein in the Regulation of Brain Endothelial and Perivascular Cells: Gaps and Future Perspectives. Frontiers in Immunology, 2021, 12, 611761.	4.8	22

#	Article	IF	Citations
55	The Ferritin-Heavy-Polypeptide-Like-17 (FTHL17) gene encodes a ferritin with low stability and no ferroxidase activity and with a partial nuclear localization. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1267-1273.	2.4	19
56	Multi-physics interactions drive VEGFR2 relocation on endothelial cells. Scientific Reports, 2017, 7, 16700.	3.3	19
57	Irisin regulates thermogenesis and lipolysis in 3T3-L1 adipocytes. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130085.	2.4	19
58	Role of Autophagy in HIV-1 Matrix Protein p17-Driven Lymphangiogenesis. Journal of Virology, 2017, 91, .	3.4	18
59	Integrins: A flexible platform for endothelial vascular tyrosine kinase receptors. Autoimmunity Reviews, 2007, 7, 18-22.	5.8	17
60	Exploiting Surface Plasmon Resonance (SPR) Technology for the Identification of Fibroblast Growth Factor-2 (FGF2) Antagonists Endowed with Antiangiogenic Activity. Sensors, 2009, 9, 6471-6503.	3.8	17
61	Vascular disrupting activity of combretastatin analogues. Vascular Pharmacology, 2016, 83, 78-89.	2.1	17
62	Phosphocaveolin-1 Enforces Tumor Growth and Chemoresistance in Rhabdomyosarcoma. PLoS ONE, 2014, 9, e84618.	2.5	17
63	Î² ₃ Integrin Promotes Long-Lasting Activation and Polarization of Vascular Endothelial Growth Factor Receptor 2 by Immobilized Ligand. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 2161-2171.	2.4	16
64	Molecular insight on the altered membrane trafficking of TrkA kinase dead mutants. Biochimica Et Biophysica Acta - Molecular Cell Research, 2020, 1867, 118614.	4.1	15
65	Claudin3 is localized outside the tight junctions in human carcinomas. Oncotarget, 2018, 9, 18446-18453.	1.8	15
66	Evaluation of a novel human IgG1 anti-claudin3 antibody that specifically recognizes its aberrantly localized antigen in ovarian cancer cells and that is suitable for selective drug delivery. Oncotarget, 2015, 6, 34617-34628.	1.8	15
67	Nanoliter contact angle probes tumor angiogenic ligandâ€“receptor protein interactions. Biosensors and Bioelectronics, 2010, 26, 1571-1575.	10.1	14
68	Cellular aspartyl proteases promote the unconventional secretion of biologically active HIV-1 matrix protein p17. Scientific Reports, 2016, 6, 38027.	3.3	14
69	The Novel Antitubulin Agent TR-764 Strongly Reduces Tumor Vasculature and Inhibits HIF-1Î± Activation. Scientific Reports, 2016, 6, 27886.	3.3	13
70	Natural Histogel-Based Bio-Scaffolds for Sustaining Angiogenesis in Beige Adipose Tissue. Cells, 2019, 8, 1457.	4.1	10
71	Fluorolabeling of the PPTase-Related Chemical Tags: Comparative Study of Different Membrane Receptors and Different Fluorophores in the Labeling Reactions. Frontiers in Molecular Biosciences, 2020, 7, 195.	3.5	10
72	Specific targeting of the KRAS mutational landscape in myeloma as a tool to unveil the elicited antitumor activity. Blood, 2021, 138, 1705-1720.	1.4	10

#	Article	IF	Citations
73	Silencing of pantothenate kinase 2 reduces endothelial cell angiogenesis. Molecular Medicine Reports, 2018, 18, 4739-4746.	2.4	10
74	Atypical Chemokine Receptor 3 Generates Guidance Cues for CXCL12-Mediated Endothelial Cell Migration. Frontiers in Immunology, 2019, 10, 1092.	4.8	9
75	Low Expression of Claudin-7 as Potential Predictor of Distant Metastases in High-Grade Serous Ovarian Carcinoma Patients. Frontiers in Oncology, 2020, 10, 1287.	2.8	9
76	Nitric oxide modulates the angiogenic phenotype of middle-T transformed endothelial cells. International Journal of Biochemistry and Cell Biology, 2001, 33, 305-313.	2.8	8
77	d-Peptide analogues of Boc-Phe-Leu-Phe-Leu-Phe-COOH induce neovascularization via endothelial N-formyl peptide receptor 3. Angiogenesis, 2020, 23, 357-369.	7.2	8
78	Expression of activated VEGFR2 by R1051Q mutation alters the energy metabolism of Sk-Mel-31 melanoma cells by increasing glutamine dependence. Cancer Letters, 2021, 507, 80-88.	7.2	8
79	CEACAM1/VEGF crossâ€talk during neuroblastic tumour differentiation. Journal of Pathology, 2007, 211, 541-549.	4.5	7
80	A novel variant of VEGFR2 identified by a pan-cancer screening of recurrent somatic mutations in the catalytic domain of tyrosine kinase receptors enhances tumor growth and metastasis. Cancer Letters, 2021, 496, 84-92.	7.2	7
81	Modeling and Simulation of VEGF Receptors Recruitment in Angiogenesis. Mathematical Problems in Engineering, 2018, 2018, 1-10.	1.1	6
82	Genetic perturbation of IFN-Î± transcriptional modulators in human endothelial cells uncovers pivotal regulators of angiogenesis. Computational and Structural Biotechnology Journal, 2020, 18, 3977-3986.	4.1	6
83	The Claudin-Low Subtype of High-Grade Serous Ovarian Carcinoma Exhibits Stem Cell Features. Cancers, 2021, 13, 906.	3.7	6
84	IL-12-dependent innate immunity arrests endothelial cells in G0â€“G1 phase by a p21Cip1/Waf1-mediated mechanism. Angiogenesis, 2012, 15, 713-725.	7.2	5
85	Induction of death receptor 5 expression in tumor vasculature by perifosine restores the vascular disruption activity of TRAIL-expressing CD34+ cells. Angiogenesis, 2013, 16, 707-722.	7.2	5
86	Î²-Galactosylceramidase Deficiency Causes Bone Marrow Vascular Defects in an Animal Model of Krabbe Disease. International Journal of Molecular Sciences, 2020, 21, 251.	4.1	5
87	Bartonella henselae Persistence within Mesenchymal Stromal Cells Enhances Endothelial Cell Activation and Infectibility That Amplifies the Angiogenic Process. Infection and Immunity, 2021, 89, e0014121.	2.2	4
88	In Situ DNA/Protein Interaction Assay to Visualize Transcriptional Factor Activation. Methods and Protocols, 2020, 3, 80.	2.0	3
89	Production and Biochemical Characterization of Dimeric Recombinant Gremlin-1. International Journal of Molecular Sciences, 2022, 23, 1151.	4.1	3
90	Simultaneously characterization of tumoral angiogenesis and vasculogenesis in stem cell-derived teratomas. Experimental Cell Research, 2021, 400, 112490.	2.6	2

#	Article	IF	Citations
91	Protein domain-based approaches for the identification and prioritization of therapeutically actionable cancer variants. Biochimica Et Biophysica Acta: Reviews on Cancer, 2021, 1876, 188614.	7.4	2
92	Fibroblast Growth Factor-2 in Angiogenesis. , 2008, , 77-88.		2
93	A Model of Integrin and VEGF Receptors Recruitment on Endothelial Cells. Advanced Structured Materials, 2020, , 163-198.	0.5	2
94	Specific Targeting of KRAS Using a Novel High-Affinity KRAS Antisense Oligonucleotide in Multiple Myeloma. Blood, 2019, 134, 3104-3104.	1.4	2
95	Novel potential oncogenic and druggable mutations of FGFRs recur in the kinase domain across cancer types. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166313.	3.8	2
96	A tool for the quantification of radial neo-vessels in chick chorioallantoic membrane angiogenic assays. , 2015, 2015, 763-6.		1
97	The Metastatic Capacity of Melanoma Reveals Alternative Pathways of Cancer Dissemination. International Journal of Translational Medicine, 2021, 1, 163-174.	0.4	1
98	Irisin Reduces the Metabolic Rate of Beige Adipocytes. Proceedings (mdpi), 2019, 25, .	0.2	0
99	Inactive VEGFR2(R1032Q) exerts proâ€oncogenic activity through heterodimerization with wildâ€type receptor. FASEB Journal, 2021, 35, .	0.5	0
100	Abstract C4: TR-764 is a novel tubulin binding agent with strong antiangiogenic activity.. , 2013, , .		0