Stefania Maria Filomena Mitola

List of Publications by Citations

97 papers	4,300 citations	31 h-index	64 g-index
101 ext. papers	4,744 ext. citations	6.4 avg, IF	4.9 L-index

#	Paper	IF	Citations
97	Fibroblast growth factor/fibroblast growth factor receptor system in angiogenesis. *Cytokine and Growth Factor Reviews*, **2005**, 16, 159-78	17.9	1005
96	Role of alphavbeta3 integrin in the activation of vascular endothelial growth factor receptor-2. *EMBO Journal*, **1999**, 18, 882-92	13	521
95	Cutting edge: extracellular high mobility group box-1 protein is a proangiogenic cytokine. *Journal of Immunology*, **2006**, 176, 12-5	5.3	193
94	Gremlin is a novel agonist of the major proangiogenic receptor VEGFR2. *Blood*, **2010**, 116, 3677-80	2.2	139
93	IL-12 inhibition of endothelial cell functions and angiogenesis depends on lymphocyte-endothelial cell cross-talk. *Journal of Immunology*, **2001**, 166, 3890-9	5.3	132
92	Bone morphogenic protein antagonist Drm/gremlin is a novel proangiogenic factor. *Blood*, **2007**, 109, 1834-40	2.2	105
91	Tumor angiogenesis revisited: Regulators and clinical implications. *Medicinal Research Reviews*, **2017**, 37, 1231-1274	14.4	104
90	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, 626-31	2.2	103
89	Tat□Human Immunodeficiency Virus-1 Induces Human Monocyte Chemotaxis by Activation of Vascular Endothelial Growth Factor Receptor-1. *Blood*, **1997**, 90, 1365-1372	2.2	102
88	Dendritic cell-endothelial cell cross-talk in angiogenesis. *Trends in Immunology*, **2007**, 28, 385-92	14.4	100
87	Inhibition of vascular endothelial growth factor receptor 2-mediated endothelial cell activation by Axl tyrosine kinase receptor. *Blood*, **2005**, 105, 1970-6	2.2	90
86	CCL16 activates an angiogenic program in vascular endothelial cells. *Blood*, **2004**, 103, 40-9	2.2	73
85	Activation of diacylglycerol kinase alpha is required for VEGF-induced angiogenic signaling in vitro. *Oncogene*, **2004**, 23, 4828-38	9.2	62
84	Nonenzymatically glycated albumin (Amadori adducts) enhances nitric oxide synthase activity and gene expression in endothelial cells. *Kidney International*, **1997**, 51, 27-35	9.9	61
83	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, 344-53	6.6	58
82	A pro-inflammatory signature mediates FGF2-induced angiogenesis. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2083-2108	5.6	53
81	Type I collagen limits VEGFR-2 signaling by a SHP2 protein-tyrosine phosphatase-dependent mechanism 1. *Circulation Research*, **2006**, 98, 45-54	15.7	53

80	Interactions between endothelial cells and HIV-1. *International Journal of Biochemistry and Cell Biology*, **2001**, 33, 371-90	5.6	53
79	Human immunodeficiency virus type 1 Tat regulates endothelial cell actin cytoskeletal dynamics through PAK1 activation and oxidant production. *Journal of Virology*, **2004**, 78, 779-89	6.6	52
78	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	9.4	51
77	Nicotine-induced structural plasticity in mesencephalic dopaminergic neurons is mediated by dopamine D3 receptors and Akt-mTORC1 signaling. *Molecular Pharmacology*, **2013**, 83, 1176-89	4.3	49
76	IL-12 regulates an endothelial cell-lymphocyte network: effect on metalloproteinase-9 production. *Journal of Immunology*, **2003**, 171, 3725-33	5.3	49
75	Chemically sulfated Escherichia coli K5 polysaccharide derivatives as extracellular HIV-1 Tat protein antagonists. *FEBS Letters*, **2004**, 568, 171-7	3.8	47
74	Integrin alphavbeta3 as a target for blocking HIV-1 Tat-induced endothelial cell activation in vitro and angiogenesis in vivo. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 2315-20	9.4	38
73	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, 3209-22	8.3	37
72	Trichostatin A blocks type I interferon production by activated plasmacytoid dendritic cells. *Immunobiology*, **2010**, 215, 756-61	3.4	37
71	Fibroblast growth factor 2-antagonist activity of a long-pentraxin 3-derived anti-angiogenic pentapeptide. *Journal of Cellular and Molecular Medicine*, **2010**, 14, 2109-21	5.6	37
70	Involvement of β3 integrin in gremlin-induced angiogenesis. *Angiogenesis*, **2013**, 16, 235-43	10.6	36
69	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, 322-34	6.6	34
68	alphavbeta3 Integrin-dependent antiangiogenic activity of resveratrol stereoisomers. *Molecular Cancer Therapeutics*, **2008**, 7, 3761-70	6.1	33
67	Antiangiogenic activity of semisynthetic biotechnological heparins: low-molecular-weight-sulfated Escherichia coli K5 polysaccharide derivatives as fibroblast growth factor antagonists. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 71-6	9.4	33
66	TR-644 a novel potent tubulin binding agent induces impairment of endothelial cells function and inhibits angiogenesis. *Angiogenesis*, **2013**, 16, 647-62	10.6	31
65	Cortical Structure Alterations and Social Behavior Impairment in p50-Deficient Mice. *Cerebral Cortex*, **2016**, 26, 2832-49	5.1	30
64	Cyclic adenosine monophosphate-response element-binding protein mediates the proangiogenic or proinflammatory activity of gremlin. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 136-45	9.4	29
63	Modulation of angiogenesis by a tetrameric tripeptide that antagonizes vascular endothelial growth factor receptor 1. *Journal of Biological Chemistry*, **2008**, 283, 34250-9	5.4	29

62	Angiopoietin-1 mediates the proangiogenic activity of the bone morphogenic protein antagonist Drm. *Blood*, **2008**, 112, 1154-7	2.2	28
61	Inflammation and N-formyl peptide receptors mediate the angiogenic activity of human vitreous humour in proliferative diabetic retinopathy. *Diabetologia*, **2017**, 60, 719-728	10.3	26
60	Anti-angiogenic activity of the flavonoid precursor 4-hydroxychalcone. *European Journal of Pharmacology*, **2012**, 691, 125-33	5.3	26
59	Tat-human immunodeficiency virus-1 induces human monocyte chemotaxis by activation of vascular endothelial growth factor receptor-1. *Blood*, **1997**, 90, 1365-72	2.2	26
58	Biosafe inertization of municipal solid waste incinerator residues by COSMOS technology. *Journal of Hazardous Materials*, **2014**, 279, 311-21	12.8	25
57	Insulin-like growth factor binding protein-3 is overexpressed in endothelial cells of mouse breast tumor vessels. *International Journal of Cancer*, **2003**, 103, 577-86	7.5	25
56	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	5.9	24
55	Dynamic modules and heterogeneity of function: a lesson from tyrosine kinase receptors in endothelial cells. *EMBO Reports*, **2001**, 2, 763-7	6.5	24
54	Monomeric gremlin is a novel vascular endothelial growth factor receptor-2 antagonist. *Oncotarget* , **2016**, 7, 35353-68	3.3	24
53	Cu(II) and Zn(II) complexes with hyaluronic acid and its sulphated derivative. Effect on the motility of vascular endothelial cells. *Journal of Inorganic Biochemistry*, **2000**, 81, 229-37	4.2	23
52	Annexin 2A sustains glioblastoma cell dissemination and proliferation. *Oncotarget*, **2016**, 7, 54632-54649	3.3	23
51	Sphingosine-1-phosphate receptor-1 controls venous endothelial barrier integrity in zebrafish. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, e104-16	9.4	22
50	Sialic acid associated with □3 integrin mediates HIV-1 Tat protein interaction and endothelial cell proangiogenic activation. *Journal of Biological Chemistry*, **2012**, 287, 20456-66	5.4	22
49	Role of VEGFs in metabolic disorders. *Angiogenesis*, **2020**, 23, 119-130	10.6	21
48	Role of nanomechanics in canonical and noncanonical pro-angiogenic ligand/VEGF receptor-2 activation. *Journal of the American Chemical Society*, **2012**, 134, 14573-9	16.4	20
47	VEGFR2 activation mediates the pro-angiogenic activity of BMP4. *Angiogenesis*, **2019**, 22, 521-533	10.6	18
46	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, 1267-73	4	17
45	Exploiting Surface Plasmon Resonance (SPR) Technology for the Identification of Fibroblast Growth Factor-2 (FGF2) Antagonists Endowed with Antiangiogenic Activity. *Sensors*, **2009**, 9, 6471-503	3.8	16

44	Vascular disrupting activity of combretastatin analogues. *Vascular Pharmacology*, **2016**, 83, 78-89	5.9	15
43	Integrins: a flexible platform for endothelial vascular tyrosine kinase receptors. *Autoimmunity Reviews*, **2007**, 7, 18-22	13.6	15
42	Role of Autophagy in HIV-1 Matrix Protein p17-Driven Lymphangiogenesis. *Journal of Virology*, **2017**, 91,	6.6	13
41	Usefulness of melatonin as complementary to chemotherapeutic agents at different stages of the angiogenic process. *Scientific Reports*, **2020**, 10, 4790	4.9	13
40	Phosphocaveolin-1 enforces tumor growth and chemoresistance in rhabdomyosarcoma. *PLoS ONE*, **2014**, 9, e84618	3.7	12
39	Cellular aspartyl proteases promote the unconventional secretion of biologically active HIV-1 matrix protein p17. *Scientific Reports*, **2016**, 6, 38027	4.9	12
38	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, 2161-71	9.4	11
37	Nanoliter contact angle probes tumor angiogenic ligand-receptor protein interactions. *Biosensors and Bioelectronics*, **2010**, 26, 1571-5	11.8	11
36	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, 34617-28	3.3	10
35	Multi-physics interactions drive VEGFR2 relocation on endothelial cells. *Scientific Reports*, **2017**, 7, 16700	4.9	8
34	Nitric oxide modulates the angiogenic phenotype of middle-T transformed endothelial cells. *International Journal of Biochemistry and Cell Biology*, **2001**, 33, 305-13	5.6	8
33	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	7.8	8
32	Alpha-Synuclein in the Regulation of Brain Endothelial and Perivascular Cells: Gaps and Future Perspectives. *Frontiers in Immunology*, **2021**, 12, 611761	8.4	7
31	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	10.6	6
30	CEACAM1/VEGF cross-talk during neuroblastic tumour differentiation. *Journal of Pathology*, **2007**, 211, 541-549	9.4	6
29	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	9.9	6
28	The Novel Antitubulin Agent TR-764 Strongly Reduces Tumor Vasculature and Inhibits HIF-1 Activation. *Scientific Reports*, **2016**, 6, 27886	4.9	6
27	Induction of death receptor 5 expression in tumor vasculature by perifosine restores the vascular disruption activity of TRAIL-expressing CD34(+) cells. *Angiogenesis*, **2013**, 16, 707-22	10.6	5

26	Silencing of pantothenate kinase 2 reduces endothelial cell angiogenesis. *Molecular Medicine Reports*, **2018**, 18, 4739-4746	2.9	5
25	Molecular insight on the altered membrane trafficking of TrkA kinase dead mutants. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2020**, 1867, 118614	4.9	5
24	Low Expression of Claudin-7 as Potential Predictor of Distant Metastases in High-Grade Serous Ovarian Carcinoma Patients. *Frontiers in Oncology*, **2020**, 10, 1287	5.3	5
23	Natural Histogel-Based Bio-Scaffolds for Sustaining Angiogenesis in Beige Adipose Tissue. *Cells*, **2019**, 8,	7.9	5
22	IL-12-dependent innate immunity arrests endothelial cells in G0-G1 phase by a p21(Cip1/Waf1)-mediated mechanism. *Angiogenesis*, **2012**, 15, 713-25	10.6	4
21	Claudin3 is localized outside the tight junctions in human carcinomas. *Oncotarget*, **2018**, 9, 18446-18453	3.3	4
20	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	9.9	4
19	Atypical Chemokine Receptor 3 Generates Guidance Cues for CXCL12-Mediated Endothelial Cell Migration. *Frontiers in Immunology*, **2019**, 10, 1092	8.4	3
18	Genetic perturbation of IFN-□transcriptional modulators in human endothelial cells uncovers pivotal regulators of angiogenesis. *Computational and Structural Biotechnology Journal*, **2020**, 18, 3977-3986	6.8	3
17	Specific targeting of the KRAS mutational landscape in myeloma as a tool to unveil the elicited antitumor activity. *Blood*, **2021**, 138, 1705-1720	2.2	3
16	□Galactosylceramidase Deficiency Causes Bone Marrow Vascular Defects in an Animal Model of Krabbe Disease. *International Journal of Molecular Sciences*, **2019**, 21,	6.3	2
15	In Situ DNA/Protein Interaction Assay to Visualize Transcriptional Factor Activation. *Methods and Protocols*, **2020**, 3,	2.5	2
14	Simultaneously characterization of tumoral angiogenesis and vasculogenesis in stem cell-derived teratomas. *Experimental Cell Research*, **2021**, 400, 112490	4.2	2
13	The Claudin-Low Subtype of High-Grade Serous Ovarian Carcinoma Exhibits Stem Cell Features. *Cancers*, **2021**, 13,	6.6	2
12	Modeling and Simulation of VEGF Receptors Recruitment in Angiogenesis. *Mathematical Problems in Engineering*, **2018**, 2018, 1-10	1.1	2
11	Fibroblast Growth Factor-2 in Angiogenesis **2008**, 77-88		2
10	A tool for the quantification of radial neo-vessels in chick chorioallantoic membrane angiogenic assays. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 763-6	0.9	1
9	Irisin regulates thermogenesis and lipolysis in 3T3-L1 adipocytes.. *Biochimica Et Biophysica Acta - General Subjects*, **2022**, 1866, 130085	4	1

List of Publications

8	Specific Targeting of KRAS Using a Novel High-Affinity KRAS Antisense Oligonucleotide in Multiple Myeloma. *Blood*, **2019**, 134, 3104-3104	2.2	1
7	A Model of Integrin and VEGF Receptors Recruitment on Endothelial Cells. *Advanced Structured Materials*, **2020**, 163-198	0.6	1
6	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	5.6	1
5	Protein domain-based approaches for the identification and prioritization of therapeutically actionable cancer variants. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2021**, 1876, 188614	11.2	1
4	Novel potential oncogenic and druggable mutations of FGFRs recur in the kinase domain across cancer types. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2021**, 1868, 166313	6.9	0
3	Irisin Reduces the Metabolic Rate of Beige Adipocytes. *Proceedings (mdpi)*, **2019**, 25, 13	0.3	
2	The Metastatic Capacity of Melanoma Reveals Alternative Pathways of Cancer Dissemination. *International Journal of Translational Medicine*, **2021**, 1, 163-174		
1	Bartonella henselae Persistence within Mesenchymal Stromal Cells Enhances Endothelial Cell Activation and Infectibility That Amplifies the Angiogenic Process. *Infection and Immunity*, **2021**, 89, e00114121	3.7	