

Stefania Maria Filomena Mitola

List of Publications by Year in descending order

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100
papers

5,107
citations

117453

34
h-index

88477

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. <i>Cytokine and Growth Factor Reviews</i> , 2005, 16, 159-178.	3.2	1,126
2	Role of $\alpha_2\beta_3$ integrin in the activation of vascular endothelial growth factor receptor-2. <i>EMBO Journal</i> , 1999, 18, 882-892.	3.5	562
3	Cutting Edge: Extracellular High Mobility Group Box-1 Protein Is a Proangiogenic Cytokine. <i>Journal of Immunology</i> , 2006, 176, 12-15.	0.4	212
4	Gremlin is a novel agonist of the major proangiogenic receptor VEGFR2. <i>Blood</i> , 2010, 116, 3677-3680.	0.6	163
5	IL-12 Inhibition of Endothelial Cell Functions and Angiogenesis Depends on Lymphocyte-Endothelial Cell Cross-Talk. <i>Journal of Immunology</i> , 2001, 166, 3890-3899.	0.4	157
6	Tumor angiogenesis revisited: Regulators and clinical implications. <i>Medicinal Research Reviews</i> , 2017, 37, 1231-1274.	5.0	138
7	Bone morphogenic protein antagonist Drg/gremlin is a novel proangiogenic factor. <i>Blood</i> , 2007, 109, 1834-1840.	0.6	118
8	Dendritic cell-endothelial cell cross-talk in angiogenesis. <i>Trends in Immunology</i> , 2007, 28, 385-392.	2.9	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. <i>Blood</i> , 2007, 109, 626-631.	0.6	112
10	Tat-Human Immunodeficiency Virus-1 Induces Human Monocyte Chemotaxis by Activation of Vascular Endothelial Growth Factor Receptor-1. <i>Blood</i> , 1997, 90, 1365-1372.	0.6	103
11	Inhibition of vascular endothelial growth factor receptor $\alpha_2\beta_3$ -mediated endothelial cell activation by Axl tyrosine kinase receptor. <i>Blood</i> , 2005, 105, 1970-1976.	0.6	98
12	CCL16 activates an angiogenic program in vascular endothelial cells. <i>Blood</i> , 2004, 103, 40-49.	0.6	85
13	Nonenzymatically glycated albumin (Amadori adducts) enhances nitric oxide synthase activity and gene expression in endothelial cells. <i>Kidney International</i> , 1997, 51, 27-35.	2.6	72
14	Activation of diacylglycerol kinase α is required for VEGF-induced angiogenic signaling in vitro. <i>Oncogene</i> , 2004, 23, 4828-4838.	2.6	69
15	A pro-inflammatory signature mediates FGF2-induced angiogenesis. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2083-2108.	1.6	66
16	Identification of Specific Molecular Structures of Human Immunodeficiency Virus Type 1 Tat Relevant for Its Biological Effects on Vascular Endothelial Cells. <i>Journal of Virology</i> , 2000, 74, 344-353.	1.5	62
17	Heparan Sulfate Proteoglycans Mediate the Angiogenic Activity of the Vascular Endothelial Growth Factor Receptor-2 Agonist Gremlin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, e116-27.	1.1	62
18	Nicotine-Induced Structural Plasticity in Mesencephalic Dopaminergic Neurons Is Mediated by Dopamine D3 Receptors and Akt-mTORC1 Signaling. <i>Molecular Pharmacology</i> , 2013, 83, 1176-1189.	1.0	61

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19	Interactions between endothelial cells and HIV-1. <i>International Journal of Biochemistry and Cell Biology</i> , 2001, 33, 371-390.	1.2	59
20	Human Immunodeficiency Virus Type 1 Tat Regulates Endothelial Cell Actin Cytoskeletal Dynamics through PAK1 Activation and Oxidant Production. <i>Journal of Virology</i> , 2004, 78, 779-789.	1.5	58
21	IL-12 Regulates an Endothelial Cell-Lymphocyte Network: Effect on Metalloproteinase-9 Production. <i>Journal of Immunology</i> , 2003, 171, 3725-3733.	0.4	56
22	Type I Collagen Limits VEGFR-2 Signaling by a SHP2 Protein-Tyrosine Phosphatase-Dependent Mechanism. <i>Circulation Research</i> , 2006, 98, 45-54.	2.0	55
23	Chemically sulfated <i>Escherichia coli</i> K5 polysaccharide derivatives as extracellular HIV-1 Tat protein antagonists. <i>FEBS Letters</i> , 2004, 568, 171-177.	1.3	50
24	Design, Synthesis, in Vitro, and in Vivo Anticancer and Antiangiogenic Activity of Novel 3-Arylamino-2-benzofuran Derivatives Targeting the Colchicine Site on Tubulin. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3209-3222.	2.9	47
25	Fibroblast growth factor 2 antagonist activity of a long-pentraxin 3-derived antiangiogenic pentapeptide. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 2109-2121.	1.6	46
26	Cyclic Adenosine Monophosphate-Response Element-Binding Protein Mediates the Proangiogenic or Proinflammatory Activity of Gremlin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, 136-145.	1.1	45
27	Integrin $\alpha_3\beta_3$ as a Target for Blocking HIV-1 Tat-Induced Endothelial Cell Activation In Vitro and Angiogenesis In Vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 2315-2320.	1.1	44
28	Trichostatin A blocks type I interferon production by activated plasmacytoid dendritic cells. <i>Immunobiology</i> , 2010, 215, 756-761.	0.8	43
29	Involvement of $\alpha_3\beta_3$ integrin in gremlin-induced angiogenesis. <i>Angiogenesis</i> , 2013, 16, 235-243.	3.7	42
30	The COOH-Terminal Peptide of Platelet Factor-4 Variant (CXCL4L1/PF-4var47-70) Strongly Inhibits Angiogenesis and Suppresses B16 Melanoma Growth <i>in vivo</i> . <i>Molecular Cancer Research</i> , 2010, 8, 322-334.	1.5	41
31	$\alpha_3\beta_3$ Integrin-dependent antiangiogenic activity of resveratrol stereoisomers. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 3761-3770.	1.9	40
32	Angiopoietin-1 mediates the proangiogenic activity of the bone morphogenetic protein antagonist Dm. <i>Blood</i> , 2008, 112, 1154-1157.	0.6	37
33	Anti-angiogenic activity of the flavonoid precursor 4-hydroxychalcone. <i>European Journal of Pharmacology</i> , 2012, 691, 125-133.	1.7	37
34	Cavin-1 and Caveolin-1 are both required to support cell proliferation, migration and anchorage-independent cell growth in rhabdomyosarcoma. <i>Laboratory Investigation</i> , 2015, 95, 585-602.	1.7	37
35	Antiangiogenic Activity of Semisynthetic Biotechnological Heparins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 71-76.	1.1	35
36	Monomeric gremlin is a novel vascular endothelial growth factor receptor-2 antagonist. <i>Oncotarget</i> , 2016, 7, 35353-35368.	0.8	34

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37	H-ferritin suppression and pronounced mitochondrial respiration make Hepatocellular Carcinoma cells sensitive to RSL3-induced ferroptosis. <i>Free Radical Biology and Medicine</i> , 2021, 169, 294-303.	1.3	34
38	Modulation of Angiogenesis by a Tetrameric Tripeptide That Antagonizes Vascular Endothelial Growth Factor Receptor 1. <i>Journal of Biological Chemistry</i> , 2008, 283, 34250-34259.	1.6	33
39	TR-644 a novel potent tubulin binding agent induces impairment of endothelial cells function and inhibits angiogenesis. <i>Angiogenesis</i> , 2013, 16, 647-662.	3.7	33
40	Cortical Structure Alterations and Social Behavior Impairment in p50-Deficient Mice. <i>Cerebral Cortex</i> , 2016, 26, 2832-2849.	1.6	33
41	Inflammation and N-formyl peptide receptors mediate the angiogenic activity of human vitreous humour in proliferative diabetic retinopathy. <i>Diabetologia</i> , 2017, 60, 719-728.	2.9	33
42	VEGFR2 activation mediates the pro-angiogenic activity of BMP4. <i>Angiogenesis</i> , 2019, 22, 521-533.	3.7	33
43	Role of VEGFs in metabolic disorders. <i>Angiogenesis</i> , 2020, 23, 119-130.	3.7	33
44	Tat-human immunodeficiency virus-1 induces human monocyte chemotaxis by activation of vascular endothelial growth factor receptor-1. <i>Blood</i> , 1997, 90, 1365-72.	0.6	33
45	Sphingosine-1-Phosphate Receptor-1 Controls Venous Endothelial Barrier Integrity in Zebrafish. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, e104-16.	1.1	29
46	Annexin 2A sustains glioblastoma cell dissemination and proliferation. <i>Oncotarget</i> , 2016, 7, 54632-54649.	0.8	29
47	Cu(II) and Zn(II) complexes with hyaluronic acid and its sulphated derivative. <i>Journal of Inorganic Biochemistry</i> , 2000, 81, 229-237.	1.5	27
48	Insulin-like growth factor binding protein-3 is overexpressed in endothelial cells of mouse breast tumor vessels. <i>International Journal of Cancer</i> , 2003, 103, 577-586.	2.3	26
49	Sialic Acid Associated with $\alpha 5 \beta 1$ Integrin Mediates HIV-1 Tat Protein Interaction and Endothelial Cell Proangiogenic Activation. <i>Journal of Biological Chemistry</i> , 2012, 287, 20456-20466.	1.6	26
50	Dynamic modules and heterogeneity of function: a lesson from tyrosine kinase receptors in endothelial cells. <i>EMBO Reports</i> , 2001, 2, 763-767.	2.0	25
51	Biosafe inertization of municipal solid waste incinerator residues by COSMOS technology. <i>Journal of Hazardous Materials</i> , 2014, 279, 311-321.	6.5	25
52	Role of Nanomechanics in Canonical and Noncanonical Pro-angiogenic Ligand/VEGF Receptor-2 Activation. <i>Journal of the American Chemical Society</i> , 2012, 134, 14573-14579.	6.6	24
53	Usefulness of melatonin as complementary to chemotherapeutic agents at different stages of the angiogenic process. <i>Scientific Reports</i> , 2020, 10, 4790.	1.6	24
54	Alpha-Synuclein in the Regulation of Brain Endothelial and Perivascular Cells: Gaps and Future Perspectives. <i>Frontiers in Immunology</i> , 2021, 12, 611761.	2.2	22

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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. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1267-1273.	1.1	19
56	Multi-physics interactions drive VEGFR2 relocation on endothelial cells. <i>Scientific Reports</i> , 2017, 7, 16700.	1.6	19
57	Irisin regulates thermogenesis and lipolysis in 3T3-L1 adipocytes. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2022, 1866, 130085.	1.1	19
58	Role of Autophagy in HIV-1 Matrix Protein p17-Driven Lymphangiogenesis. <i>Journal of Virology</i> , 2017, 91, .	1.5	18
59	Integrins: A flexible platform for endothelial vascular tyrosine kinase receptors. <i>Autoimmunity Reviews</i> , 2007, 7, 18-22.	2.5	17
60	Exploiting Surface Plasmon Resonance (SPR) Technology for the Identification of Fibroblast Growth Factor-2 (FGF2) Antagonists Endowed with Antiangiogenic Activity. <i>Sensors</i> , 2009, 9, 6471-6503.	2.1	17
61	Vascular disrupting activity of combretastatin analogues. <i>Vascular Pharmacology</i> , 2016, 83, 78-89.	1.0	17
62	Phosphocaveolin-1 Enforces Tumor Growth and Chemoresistance in Rhabdomyosarcoma. <i>PLoS ONE</i> , 2014, 9, e84618.	1.1	17
63	β ₃ Integrin Promotes Long-Lasting Activation and Polarization of Vascular Endothelial Growth Factor Receptor 2 by Immobilized Ligand. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2161-2171.	1.1	16
64	Molecular insight on the altered membrane trafficking of TrkA kinase dead mutants. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118614.	1.9	15
65	Claudin3 is localized outside the tight junctions in human carcinomas. <i>Oncotarget</i> , 2018, 9, 18446-18453.	0.8	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. <i>Oncotarget</i> , 2015, 6, 34617-34628.	0.8	15
67	Nanoliter contact angle probes tumor angiogenic ligand-receptor protein interactions. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1571-1575.	5.3	14
68	Cellular aspartyl proteases promote the unconventional secretion of biologically active HIV-1 matrix protein p17. <i>Scientific Reports</i> , 2016, 6, 38027.	1.6	14
69	The Novel Antitubulin Agent TR-764 Strongly Reduces Tumor Vasculature and Inhibits HIF-1 α Activation. <i>Scientific Reports</i> , 2016, 6, 27886.	1.6	13
70	Natural Histogel-Based Bio-Scaffolds for Sustaining Angiogenesis in Beige Adipose Tissue. <i>Cells</i> , 2019, 8, 1457.	1.8	10
71	Fluorolabeling of the PPTase-Related Chemical Tags: Comparative Study of Different Membrane Receptors and Different Fluorophores in the Labeling Reactions. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 195.	1.6	10
72	Specific targeting of the KRAS mutational landscape in myeloma as a tool to unveil the elicited antitumor activity. <i>Blood</i> , 2021, 138, 1705-1720.	0.6	10

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73	Silencing of pantothenate kinase 2 reduces endothelial cell angiogenesis. <i>Molecular Medicine Reports</i> , 2018, 18, 4739-4746.	1.1	10
74	Atypical Chemokine Receptor 3 Generates Guidance Cues for CXCL12-Mediated Endothelial Cell Migration. <i>Frontiers in Immunology</i> , 2019, 10, 1092.	2.2	9
75	Low Expression of Claudin-7 as Potential Predictor of Distant Metastases in High-Grade Serous Ovarian Carcinoma Patients. <i>Frontiers in Oncology</i> , 2020, 10, 1287.	1.3	9
76	Nitric oxide modulates the angiogenic phenotype of middle-T transformed endothelial cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2001, 33, 305-313.	1.2	8
77	d-Peptide analogues of Boc-Phe-Leu-Phe-Leu-Phe-COOH induce neovascularization via endothelial N-formyl peptide receptor 3. <i>Angiogenesis</i> , 2020, 23, 357-369.	3.7	8
78	Expression of activated VEGFR2 by R1051Q mutation alters the energy metabolism of Sk-Mel-31 melanoma cells by increasing glutamine dependence. <i>Cancer Letters</i> , 2021, 507, 80-88.	3.2	8
79	CEACAM1/VEGF cross-talk during neuroblastic tumour differentiation. <i>Journal of Pathology</i> , 2007, 211, 541-549.	2.1	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. <i>Cancer Letters</i> , 2021, 496, 84-92.	3.2	7
81	Modeling and Simulation of VEGF Receptors Recruitment in Angiogenesis. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-10.	0.6	6
82	Genetic perturbation of IFN- γ transcriptional modulators in human endothelial cells uncovers pivotal regulators of angiogenesis. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3977-3986.	1.9	6
83	The Claudin-Low Subtype of High-Grade Serous Ovarian Carcinoma Exhibits Stem Cell Features. <i>Cancers</i> , 2021, 13, 906.	1.7	6
84	IL-12-dependent innate immunity arrests endothelial cells in G0/G1 phase by a p21Cip1/Waf1-mediated mechanism. <i>Angiogenesis</i> , 2012, 15, 713-725.	3.7	5
85	Induction of death receptor 5 expression in tumor vasculature by perifosine restores the vascular disruption activity of TRAIL-expressing CD34+ cells. <i>Angiogenesis</i> , 2013, 16, 707-722.	3.7	5
86	β -Galactosylceramidase Deficiency Causes Bone Marrow Vascular Defects in an Animal Model of Krabbe Disease. <i>International Journal of Molecular Sciences</i> , 2020, 21, 251.	1.8	5
87	<i>Bartonella henselae</i> Persistence within Mesenchymal Stromal Cells Enhances Endothelial Cell Activation and Infectibility That Amplifies the Angiogenic Process. <i>Infection and Immunity</i> , 2021, 89, e0014121.	1.0	4
88	In Situ DNA/Protein Interaction Assay to Visualize Transcriptional Factor Activation. <i>Methods and Protocols</i> , 2020, 3, 80.	0.9	3
89	Production and Biochemical Characterization of Dimeric Recombinant Gremlin-1. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1151.	1.8	3
90	Simultaneously characterization of tumoral angiogenesis and vasculogenesis in stem cell-derived teratomas. <i>Experimental Cell Research</i> , 2021, 400, 112490.	1.2	2

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91	Protein domain-based approaches for the identification and prioritization of therapeutically actionable cancer variants. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188614.	3.3	2
92	Fibroblast Growth Factor-2 in Angiogenesis. , 2008, , 77-88.		2
93	A Model of Integrin and VEGF Receptors Recruitment on Endothelial Cells. <i>Advanced Structured Materials</i> , 2020, , 163-198.	0.3	2
94	Specific Targeting of KRAS Using a Novel High-Affinity KRAS Antisense Oligonucleotide in Multiple Myeloma. <i>Blood</i> , 2019, 134, 3104-3104.	0.6	2
95	Novel potential oncogenic and druggable mutations of FGFRs recur in the kinase domain across cancer types. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166313.	1.8	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. <i>International Journal of Translational Medicine</i> , 2021, 1, 163-174.	0.1	1
98	Irisin Reduces the Metabolic Rate of Beige Adipocytes. <i>Proceedings (mdpi)</i> , 2019, 25, .	0.2	0
99	Inactive VEGFR2(R1032Q) exerts pro-oncogenic activity through heterodimerization with wild-type receptor. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
100	Abstract C4: TR-764 is a novel tubulin binding agent with strong antiangiogenic activity.. , 2013, , .		0