Bela Anand-Apte or Bela Anand

List of Publications by Year
in descending order

55 papers	3,894 citations	201674 27 h-index	175258 52 g-index
59 all docs	59 docs citations	59 times ranked	5177 citing authors

#	Article	IF	Citations
1	A novel function for tissue inhibitor of metalloproteinases-3 (TIMP3): inhibition of angiogenesis by blockage of VEGF binding to VEGF receptor-2. Nature Medicine, 2003, 9, 407-415.	30.7	616
2	Heterodimers of Placenta Growth Factor/Vascular Endothelial Growth Factor. Journal of Biological Chemistry, 1996, 271, 3154-3162.	3.4	262
3	Differential Endothelial Migration and Proliferation to Basic Fibroblast Growth Factor and Vascular Endothelial Growth Factor. Growth Factors, 1996, 13, 57-64.	1.7	233
4	Vascular Endothelial Growth Factor-Induced Migration of Vascular Smooth Muscle Cells in Vitro. Microvascular Research, 1999, 58, 128-136.	2.5	197
5	A novel transgenic zebrafish model for blood-brain and blood-retinal barrier development. BMC Developmental Biology, 2010, 10, 76.	2.1	179
6	Platelet-derived Growth Factor and Fibronectin-stimulated Migration Are Differentially Regulated by the Rac and Extracellular Signal-regulated Kinase Pathways. Journal of Biological Chemistry, 1997, 272, 30688-30692.	3.4	162
7	Circulating Angiogenic Precursors in Idiopathic Pulmonary Arterial Hypertension. American Journal of Pathology, 2008, 172, 615-627.	3.8	158
8	Thymosin Î²15: A novel regulator of tumor cell motility upregulated in metastatic prostate cancer. Nature Medicine, 1996, 2, 1322-1328.	30.7	150
9	A review of tissue inhibitor of metalloproteinases-3 (TIMP-3) and experimental analysis of its effect on primary tumor growth. Biochemistry and Cell Biology, 1996, 74, 853-862.	2.0	149
10	Motility and invasion are differentially modulated by Rho family GTPases. Oncogene, 2000, 19, 580-591.	5.9	142
11	A role for caveolae in cell migration. FASEB Journal, 2004, 18, 1801-1811.	0.5	141
12	Tissue Inhibitor of Metalloproteinases-3 (TIMP-3) Is a Binding Partner of Epithelial Growth Factor-containing Fibulin-like Extracellular Matrix Protein 1 (EFEMP1). Journal of Biological Chemistry, 2004, 279, 30469-30473.	3.4	140
13	Carboxyethylpyrrole oxidative protein modifications stimulate neovascularization: Implications for age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13480-13484.	7.1	107
14	Prolyl hydroxylase inhibition during hyperoxia prevents oxygen-induced retinopathy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19898-19903.	7.1	104
15	Cross-Talk between Vascular Endothelial Growth Factor and Matrix Metalloproteinases in the Induction of Neovascularization in Vivo. American Journal of Pathology, 2010, 176, 496-503.	3.8	92
16	Signaling Mechanisms in Growth Factorâ€Stimulated Cell Motility. Stem Cells, 1997, 15, 259-267.	3.2	83
17	Tissue inhibitor of metalloproteinase-3 (TIMP3) promotes endothelial apoptosis via a caspase-independent mechanism. Apoptosis: an International Journal on Programmed Cell Death, 2015, 20, 523-534.	4.9	67
18	Triamcinolone Acetonide Inhibits IL-6â€“ and VEGF-Induced Angiogenesis Downstream of the IL-6 and VEGF Receptors. , 2006, 47, 4935.		63

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19	New Activity of Spironolactone. Circulation, 1996, 94, 2566-2571.	1.6	54
20	A PI-3 kinase-dependent, Stat1-independent signaling pathway regulates interferon-stimulated monocyte adhesion. Journal of Leukocyte Biology, 2003, 73, 540-545.	3.3	53
21	Impaired function of circulating CD34+ CD45â^' cells in patients with proliferative diabetic retinopathy. Experimental Eye Research, 2010, 91, 229-237.	2.6	52
22	Expression of Sorsby's Fundus Dystrophy Mutations in Human Retinal Pigment Epithelial Cells Reduces Matrix Metalloproteinase Inhibition and May Promote Angiogenesis. Journal of Biological Chemistry, 2002, 277, 13394-13400.	3.4	50
23	Corticotropin-Releasing Hormone Stimulates Angiogenesis and Epithelial Tumor Growth in the Skin. Journal of Investigative Dermatology, 1999, 113, 838-842.	0.7	49
24	Rab13-dependent Trafficking of RhoA Is Required for Directional Migration and Angiogenesis. Journal of Biological Chemistry, 2011, 286, 23511-23520.	3.4	49
25	Inhibition of EGF Signaling Protects the Diabetic Retina from Insulin-Induced Vascular Leakage. American Journal of Pathology, 2013, 183, 987-995.	3.8	49
26	S156C Mutation in Tissue Inhibitor of Metalloproteinases-3 Induces Increased Angiogenesis. Journal of Biological Chemistry, 2009, 284, 19927-19936.	3.4	40
27	Increased Neovascularization in Mice Lacking Tissue Inhibitor of Metalloproteinases-3. , 2011, 52, 6117.		34
28	Altered Angiogenesis in Caveolin-1 Geneâ€"Deficient Mice Is Restored by Ablation of Endothelial Nitric Oxide Synthase. American Journal of Pathology, 2012, 180, 1702-1714.	3.8	33
29	Sorsby fundus dystrophy: Insights from the past and looking to the future. Journal of Neuroscience Research, 2019, 97, 88-97.	2.9	32
30	Endogenous insulin signaling in the RPE contributes to the maintenance of rod photoreceptor function in diabetes. Experimental Eye Research, 2019, 180, 63-74.	2.6	31
31	3D iPSC modeling of the retinal pigment epithelium-choriocapillaris complex identifies factors involved in the pathology of macular degeneration. Cell Stem Cell, 2021, 28, 846-862.e8.	11.1	30
32	Caveolin-1 polarization in transmigrating endothelial cells requires binding to intermediate filaments. Angiogenesis, 2007, 10, 297-305.	7.2	28
33	Tissue Inhibitor of Metalloproteinases-3 Peptides Inhibit Angiogenesis and Choroidal Neovascularization in Mice. PLoS ONE, 2013, 8, e55667.	2.5	28
34	Betacellulin Induces Increased Retinal Vascular Permeability in Mice. PLoS ONE, 2010, 5, e13444.	2.5	24
35	Retinoic acid signaling is essential for maintenance of the bloodâ€retinal barrier. FASEB Journal, 2018, 32, 5674-5684.	0.5	24
36	A Review and Update on the Molecular Basis of Pathogenesis of Sorsby Fundus Dystrophy. Advances in Experimental Medicine and Biology, 2012, 723, 261-267.	1.6	24

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37	Eotaxin-Rich Proangiogenic Hematopoietic Progenitor Cells and CCR3+ Endothelium in the Atopic Asthmatic Response. Journal of Immunology, 2016, 196, 2377-2387.	0.8	19
38	Morphine alters the circulating proteolytic profile in mice: functional consequences on cellular migration and invasion. FASEB Journal, 2017, 31, 5208-5216.	0.5	16
39	Sorsby Fundus Dystrophy Mutation in Tissue Inhibitor of Metalloproteinase 3 (TIMP3) promotes Choroidal Neovascularization via a Fibroblast Growth Factor-dependent Mechanism. Scientific Reports, 2019, 9, 17429.	3.3	15
40	Inhibition of choroidal neovascularization by systemic delivery of gold nanoparticles. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 28, 102205.	3.3	15
41	The Protective Role of T-Lymphocytes in Pulmonary Vascular Remodeling. Chest, 2005, 128, 571S-572S.	0.8	14
42	A Direct Interaction between Oncogenic Ha-Ras and Phosphatidylinositol 3-Kinase Is Not Required for Ha-Ras-dependent Transformation of Epithelial Cells. Journal of Biological Chemistry, 2001, 276, 39755-39764.	3.4	12
43	Retinal vasculature of adult zebrafish: InÂvivo imaging using confocal scanning laser ophthalmoscopy. Experimental Eye Research, 2014, 129, 107-118.	2.6	11
44	The retinal pigment epithelium in Sorsby Fundus Dystrophy shows increased sensitivity to oxidative stress-induced degeneration. Redox Biology, 2020, 37, 101681.	9.0	10
45	Heterogeneity of cultured melanocyte elongation and proliferation factor in bilateral diffuse uveal melanocytic proliferation. Experimental Eye Research, 2019, 184, 30-37.	2.6	9
46	Tissue Inhibitor of Metalloproteinases-3 and Sorsby Fundus Dystrophy. Advances in Experimental Medicine and Biology, 2003, 533, 97-105.	1.6	8
47	A mutagenesis-derived mouse mutant with abnormal retinal vasculature and low bone mineral density. Molecular Vision, 2017, 23, 140-148.	1.1	7
48	Role of FGF and Hyaluronan in Choroidal Neovascularization in Sorsby Fundus Dystrophy. Cells, 2020, 9, 608.	4.1	6
49	Extracellular matrix dysfunction in Sorsby patient-derived retinal pigment epithelium. Experimental Eye Research, 2022, 215, 108899.	2.6	6
50	Changes in VEGF-related factors are associated with presence of inflammatory factors in carbohydrate metabolism disorders during pregnancy. PLoS ONE, 2019, 14, e0220650.	2.5	4
51	Prolonged ocular exposure leads to retinal lesions in mice. Experimental Eye Research, 2019, 185, 107672.	2.6	4
52	Hyperoxia Inhibits Proliferation of Retinal Endothelial Cells in a Myc-Dependent Manner. Life, 2021, 11, 614.	2.4	4
53	Primary cilia are present on endothelial cells of the hyaloid vasculature but are not required for the development of the blood-retinal barrier. PLoS ONE, 2020, 15, e0225351.	2.5	2
54	Regulation of Retinal Vascular Permeability by Betacellulin. Advances in Experimental Medicine and Biology, 2012, 723, 293-298.	1.6	1

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55	A novel TIMP3 mutation associated with a retinitis pigmentosa-like phenotype. Ophthalmic Genetics, 2020, 41, 480-484.	1.2	0