

Suvro Chatterjee

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121
papers

3,433
citations

31
h-index

55
g-index

129
ext. papers

3,829
ext. citations

4.7
avg, IF

5.24
L-index

#	Paper	IF	Citations
121	Diverse origin and function of cells with endothelial phenotype obtained from adult human blood. <i>Circulation Research</i> , 2003 , 93, 1023-5	15.7	388
120	Role of angiogenesis in bone repair. <i>Archives of Biochemistry and Biophysics</i> , 2014 , 561, 109-17	4.1	211
119	Nitric oxide synthase generates nitric oxide locally to regulate compartmentalized protein S-nitrosylation and protein trafficking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19777-82	11.5	206
118	Cryopreservation alters membrane sulfhydryl status of bull spermatozoa: protection by oxidized glutathione. <i>Molecular Reproduction and Development</i> , 2001 , 60, 498-506	2.6	121
117	Zinc oxide nanoflowers make new blood vessels. <i>Nanoscale</i> , 2012 , 4, 7861-9	7.7	119
116	Graphene Oxides Show Angiogenic Properties. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1722-32	10.1	116
115	eNOS phosphorylation in health and disease. <i>Biochimie</i> , 2010 , 92, 1186-98	4.6	114
114	Nitric oxide promotes endothelial cell survival signaling through S-nitrosylation and activation of dynamin-2. <i>Journal of Cell Science</i> , 2007 , 120, 492-501	5.3	106
113	Nitric oxide interacts with the cAMP pathway to modulate capacitation of human spermatozoa. <i>Free Radical Biology and Medicine</i> , 2000 , 29, 522-36	7.8	85
112	Thalidomide attenuates nitric oxide mediated angiogenesis by blocking migration of endothelial cells. <i>BMC Cell Biology</i> , 2006 , 7, 17		83
111	Apoptosis in HepG2 cells exposed to high glucose. <i>Toxicology in Vitro</i> , 2010 , 24, 387-96	3.6	73
110	Mechanisms of nitric oxide interplay with Rho GTPase family members in modulation of actin membrane dynamics in pericytes and fibroblasts. <i>American Journal of Pathology</i> , 2005 , 166, 1861-70	5.8	70
109	Secreted frizzled-related protein 4: an angiogenesis inhibitor. <i>American Journal of Pathology</i> , 2010 , 176, 1505-16	5.8	69
108	Sinaptic acid prevents hypertension and cardiovascular remodeling in pharmacological model of nitric oxide inhibited rats. <i>PLoS ONE</i> , 2014 , 9, e115682	3.7	60
107	Cadmium induced endothelial dysfunction: consequence of defective migratory pattern of endothelial cells in association with poor nitric oxide availability under cadmium challenge. <i>Cell Biology International</i> , 2006 , 30, 427-38	4.5	52
106	Shear stress promotes nitric oxide production in endothelial cells by sub-cellular delocalization of eNOS: A basis for shear stress mediated angiogenesis. <i>Nitric Oxide - Biology and Chemistry</i> , 2010 , 22, 304-15	5.15	49
105	Inhibition of Notch signaling induces extensive intussusceptive neo-angiogenesis by recruitment of mononuclear cells. <i>Angiogenesis</i> , 2013 , 16, 921-37	10.6	47

104	Thalidomide attenuates nitric oxide-driven angiogenesis by interacting with soluble guanylyl cyclase. <i>British Journal of Pharmacology</i> , 2009 , 158, 1720-34	8.6	46
103	Cadmium reduces nitric oxide production by impairing phosphorylation of endothelial nitric oxide synthase. <i>Biochemistry and Cell Biology</i> , 2008 , 86, 1-10	3.6	46
102	Investigation of molecular mechanisms and regulatory pathways of pro-angiogenic nanorods. <i>Nanoscale</i> , 2015 , 7, 9760-70	7.7	41
101	Nitric oxide rescues thalidomide mediated teratogenicity. <i>Scientific Reports</i> , 2012 , 2, 679	4.9	41
100	MiR-29b downregulates canonical Wnt signaling by suppressing coactivators of β-catenin in human colorectal cancer cells. <i>Journal of Cellular Biochemistry</i> , 2014 , 115, 1974-84	4.7	38
99	L-theanine promotes nitric oxide production in endothelial cells through eNOS phosphorylation. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 595-605	6.3	38
98	Inhibition of GTP-dependent vesicle trafficking impairs internalization of plasmalemmal eNOS and cellular nitric oxide production. <i>Journal of Cell Science</i> , 2003 , 116, 3645-55	5.3	38
97	Sinapic acid protects heart against ischemia/reperfusion injury and H9c2 cardiomyoblast cells against oxidative stress. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 456, 853-9	3.4	36
96	Simulated microgravity perturbs actin polymerization to promote nitric oxide-associated migration in human immortalized EaHy926 cells. <i>Protoplasma</i> , 2010 , 242, 3-12	3.4	36
95	Mixed-ligand copper(II) complex of quercetin regulate osteogenesis and angiogenesis. <i>Materials Science and Engineering C</i> , 2018 , 83, 187-194	8.3	35
94	5-Benzylidene-2,4-thiazolidenedione derivatives: Design, synthesis and evaluation as inhibitors of angiogenesis targeting VEGFR-2. <i>Bioorganic Chemistry</i> , 2016 , 67, 139-47	5.1	34
93	Quercetin improves endothelial function in diabetic rats through inhibition of endoplasmic reticulum stress-mediated oxidative stress. <i>European Journal of Pharmacology</i> , 2018 , 819, 80-88	5.3	33
92	Biosynthesized Vitis vinifera seed gold nanoparticles induce apoptotic cell death in A431 skin cancer cells. <i>RSC Advances</i> , 2016 , 6, 82205-82218	3.7	32
91	Simulated microgravity promotes nitric oxide-supported angiogenesis via the iNOS-cGMP-PKG pathway in macrovascular endothelial cells. <i>FEBS Letters</i> , 2010 , 584, 3415-23	3.8	31
90	TNF signaling beholds thalidomide saga: a review of mechanistic role of TNF signaling under thalidomide. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 1456-67	3	30
89	Interleukin-1β/lipocalin 2 and nitric oxide synthase 2 are mechano-responsive mediators of mouse and human endothelial cell-osteoblast crosstalk. <i>Scientific Reports</i> , 2016 , 6, 29880	4.9	30
88	Vitis vinifera peel polyphenols stabilized gold nanoparticles induce cytotoxicity and apoptotic cell death in A431 skin cancer cell lines. <i>Advanced Powder Technology</i> , 2017 , 28, 1170-1184	4.6	29
87	Tipping off endothelial tubes: nitric oxide drives tip cells. <i>Angiogenesis</i> , 2015 , 18, 175-89	10.6	29

86	Study of the cellular mechanism of Sunitinib mediated inactivation of activated hepatic stellate cells and its implications in angiogenesis. <i>European Journal of Pharmacology</i> , 2013 , 705, 86-95	5.3	29
85	Nitric oxide/cGMP protects endothelial cells from hypoxia-mediated leakiness. <i>European Journal of Cell Biology</i> , 2008 , 87, 147-61	6.1	29
84	Prevention of cardiac dysfunction, kidney fibrosis and lipid metabolic alterations in l-NAME hypertensive rats by sinapic acid--Role of HMG-CoA reductase. <i>European Journal of Pharmacology</i> , 2016 , 777, 113-23	5.3	28
83	Nitric oxide signaling regulates tumor-induced intussusceptive-like angiogenesis. <i>Microvascular Research</i> , 2018 , 119, 47-59	3.7	26
82	Disturbed flow mediated modulation of shear forces on endothelial plane: A proposed model for studying endothelium around atherosclerotic plaques. <i>Scientific Reports</i> , 2016 , 6, 27304	4.9	26
81	Cadmium-induced embryopathy: nitric oxide rescues teratogenic effects of cadmium. <i>Toxicological Sciences</i> , 2015 , 144, 90-104	4.4	24
80	Immunomagnetic nanoparticle based quantitative PCR for rapid detection of Salmonella. <i>Mikrochimica Acta</i> , 2013 , 180, 1241-1248	5.8	23
79	Breast cancer drugs dampen vascular functions by interfering with nitric oxide signaling in endothelium. <i>Toxicology and Applied Pharmacology</i> , 2013 , 269, 121-31	4.6	22
78	Simulated microgravity promoted differentiation of bipotential murine oval liver stem cells by modulating BMP4/Notch1 signaling. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 1898-908	4.7	22
77	Cytotoxicity and apoptotic cell death induced by Vitis vinifera peel and seed extracts in A431 skin cancer cells. <i>Cytotechnology</i> , 2018 , 70, 537-554	2.2	21
76	Rho-kinase as a therapeutic target in vascular diseases: striking nitric oxide signaling. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 43, 45-54	5	21
75	Synthesis and anti-angiogenic activity of benzothiazole, benzimidazole containing phthalimide derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 287-90	2.9	20
74	A comparative study of NONOate based NO donors: spermine NONOate is the best suited NO donor for angiogenesis. <i>Nitric Oxide - Biology and Chemistry</i> , 2014 , 36, 76-86	5	19
73	Everolimus is a potent inhibitor of activated hepatic stellate cell functions in vitro and in vivo, while demonstrating anti-angiogenic activities. <i>Clinical Science</i> , 2014 , 126, 775-84	6.5	19
72	Nitric oxide regulates intussusceptive-like angiogenesis in wound repair in chicken embryo and transgenic zebrafish models. <i>Nitric Oxide - Biology and Chemistry</i> , 2019 , 82, 48-58	5	19
71	Synthesis and characterization of zinc-silibinin complexes: A potential bioactive compound with angiogenic, and antibacterial activity for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 167, 134-143	6	18
70	Evaluation of the role of nitric oxide in acid sensing ion channel mediated cell death. <i>Nitric Oxide - Biology and Chemistry</i> , 2010 , 22, 213-9	5	18
69	Molecular features, markers, drug targets, and prospective targeted therapeutics in cardiac myxoma. <i>Current Cancer Drug Targets</i> , 2009 , 9, 705-16	2.8	18

68	Cadmium attenuates bradykinin-driven nitric oxide production by interplaying with the localization pattern of endothelial nitric oxide synthase. <i>Biochemistry and Cell Biology</i> , 2009 , 87, 605-20	3.6	16
67	Dynamic electrochemical impedance study of fluoride conversion coating on AZ31 magnesium alloy to improve bio-adaptability for orthopedic application. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 698-710	1.6	16
66	MicroRNAs: Impaired vasculogenesis in metal induced teratogenicity. <i>Reproductive Toxicology</i> , 2017 , 70, 30-48	3.4	15
65	Establishment of pancreatic microenvironment model of ER stress: Quercetin attenuates cell apoptosis by invoking nitric oxide-cGMP signaling in endothelial cells. <i>Journal of Nutritional Biochemistry</i> , 2018 , 55, 142-156	6.3	15
64	Characterization of a pro-angiogenic, novel peptide from Russell's viper (<i>Daboia russelii russelii</i>) venom. <i>Toxicon</i> , 2014 , 77, 26-31	2.8	15
63	Nitric oxide protects endothelium from cadmium mediated leakiness. <i>Cell Biology International</i> , 2013 , 37, 495-506	4.5	15
62	Biocompatible gadolinium-coated magnesium alloy for biomedical applications. <i>Journal of Materials Science</i> , 2020 , 55, 11582-11596	4.3	14
61	Dermatopontin augments angiogenesis and modulates the expression of transforming growth factor beta 1 and integrin alpha 3 beta 1 in endothelial cells. <i>European Journal of Cell Biology</i> , 2017 , 96, 266-275	6.1	13
60	Impact of lysyl oxidase (G473A) polymorphism on diabetic foot ulcers. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 242-247	7.9	13
59	Mechanical perturbations trigger endothelial nitric oxide synthase activity in human red blood cells. <i>Scientific Reports</i> , 2016 , 6, 26935	4.9	13
58	Downregulation of dTps1 in <i>Drosophila melanogaster</i> larvae confirms involvement of trehalose in redox regulation following desiccation. <i>Cell Stress and Chaperones</i> , 2016 , 21, 285-94	4	12
57	Harvesting clues from genome wide transcriptome analysis for exploring thalidomide mediated anomalies in eye development of chick embryo: Nitric oxide rectifies the thalidomide mediated anomalies by swinging back the system to normal transcriptome pattern. <i>Biochimie</i> , 2016 , 121, 253-67	4.6	11
56	Chick embryo partial ischemia model: a new approach to study ischemia ex vivo. <i>PLoS ONE</i> , 2010 , 5, e10524	3.7	11
55	Interactome of miRNAs and transcriptome of human umbilical cord endothelial cells exposed to short-term simulated microgravity. <i>Npj Microgravity</i> , 2020 , 6, 18	5.3	11
54	sFRP4 signalling of apoptosis and angiostasis uses nitric oxide-cGMP-permeability axis of endothelium. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 66, 30-42	5	10
53	Transcriptomic Analysis of Thalidomide Challenged Chick Embryo Suggests Possible Link between Impaired Vasculogenesis and Defective Organogenesis. <i>Chemical Research in Toxicology</i> , 2017 , 30, 1883-1896	4.8	10
52	Elevated glutathione level does not protect against chronic alcohol mediated apoptosis in recombinant human hepatoma cell line VL-17A over-expressing alcohol metabolizing enzymes--alcohol dehydrogenase and Cytochrome P450 2E1. <i>Toxicology in Vitro</i> , 2011 , 25, 969-78	3.6	10
51	Interleukin-6 secreted by bipotential murine oval liver stem cells induces apoptosis of activated hepatic stellate cells by activating NF-B-inducible nitric oxide synthase signaling. <i>Biochemistry and Cell Biology</i> , 2017 , 95, 263-272	3.6	9

50	NO (nitric oxide): the ring master. <i>European Journal of Cell Biology</i> , 2011 , 90, 58-71	6.1	9
49	Inhibitory activity of the peptides derived from buffalo prolactin on angiogenesis. <i>Journal of Biosciences</i> , 2011 , 36, 341-54	2.3	9
48	Sperm disposal system in spermatic granuloma: a link with superoxide radicals. <i>Journal of Developmental and Physical Disabilities</i> , 2001 , 24, 278-83		9
47	Nitric Oxide Reverses the Position of the Heart during Embryonic Development. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
46	Thalidomide remodels developing heart in chick embryo: discovery of a thalidomide mediated hematoma in heart muscle. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018 , 391, 1093-1105	3.4	8
45	Increased Plasma Nitrite and von Willebrand Factor Indicates Early Diagnosis of Vascular Diseases in Chemotherapy Treated Cancer Patients. <i>Cardiovascular Toxicology</i> , 2019 , 19, 36-47	3.4	8
44	Activated pericyte attenuates endothelial functions: nitric oxide-cGMP rescues activated pericyte-associated endothelial dysfunctions. <i>Biochemistry and Cell Biology</i> , 2007 , 85, 709-20	3.6	8
43	Models to investigate intussusceptive angiogenesis: A special note on CRISPR/Cas9 based system in zebrafish. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 1229-1240	7.9	8
42	Thalidomide and Its Analogs Differentially Target Fibroblast Growth Factor Receptors: Thalidomide Suppresses FGFR Gene Expression while Pomalidomide Dampens FGFR2 Activity. <i>Chemical Research in Toxicology</i> , 2019 , 32, 589-602	4	7
41	Strategies of Manipulating BMP Signaling in Microgravity to Prevent Bone Loss. <i>Vitamins and Hormones</i> , 2015 , 99, 249-72	2.5	7
40	Ex vivo model for studying endothelial tip cells: Revisiting the classical aortic-ring assay. <i>Microvascular Research</i> , 2020 , 128, 103939	3.7	7
39	Osteoblasts Regulate Angiogenesis in Response to Mechanical Unloading. <i>Calcified Tissue International</i> , 2019 , 104, 344-354	3.9	7
38	Oxidized antithrombin is a dual inhibitor of coagulation and angiogenesis: Importance of low heparin affinity. <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 541-50	7.9	6
37	Normalization of deranged signal transduction in lymphocytes of COPD patients by the novel calcium channel blocker H-DHPM. <i>Biochimie</i> , 2011 , 93, 1146-56	4.6	6
36	Inhibition of Angiogenesis and Nitric Oxide Synthase (NOS), by Embelin & Vilangin Using in vitro, in vivo & in Silico Studies. <i>Advanced Pharmaceutical Bulletin</i> , 2014 , 4, 543-8	4.5	6
35	Nitrites derived from Foeniculum vulgare (fennel) seeds promotes vascular functions. <i>Journal of Food Science</i> , 2012 , 77, H273-9	3.4	5
34	Inhibition of dynamin-2 confers endothelial barrier dysfunctions by attenuating nitric oxide production. <i>Cell Biology International</i> , 2010 , 34, 755-61	4.5	5
33	The role of calreticulin transacetylase in the activation of human platelet nitrite reductase by polyphenolic acetates. <i>Biological and Pharmaceutical Bulletin</i> , 2009 , 32, 161-5	2.3	5

32	Attenuation of cadmium-induced vascular toxicity by pro-angiogenic nanorods. <i>Materials Science and Engineering C</i> , 2020 , 115, 111108	8.3	5
31	Hypoxia perturbs endothelium by re-organizing cellular actin architecture: Nitric oxide offers limited protection. <i>Tissue and Cell</i> , 2018 , 50, 114-124	2.7	4
30	Mechanistic insights into the differential effects of thalidomide and lenalidomide in metastatic prostate cancer. <i>Future Oncology</i> , 2018 , 14, 2383-2401	3.6	4
29	Allele, Genotype and Haplotype Structures of Functional Polymorphic Variants in Endothelial Nitric Oxide Synthase (eNOS), Angiotensinogen (ACE) and Aldosterone Synthase (CYP11B2) Genes in Healthy Pregnant Women of Indian Ethnicity. <i>Journal of Reproduction and Infertility</i> , 2015 , 16, 180-92	1.5	4
28	A proteome-wide systems toxicological approach deciphers the interaction network of chemotherapeutic drugs in the cardiovascular milieu.. <i>RSC Advances</i> , 2018 , 8, 20211-20221	3.7	3
27	A marine sponge associated fungal metabolite monacolin X suppresses angiogenesis by down regulating VEGFR2 signaling.. <i>RSC Advances</i> , 2019 , 9, 26646-26667	3.7	2
26	Nitric oxide restores peripheral blood mononuclear cell adhesion against hypoxia via NO-cGMP signalling. <i>Cell Biochemistry and Function</i> , 2020 , 38, 319-329	4.2	2
25	Differential expression of CRAC channel in alloxan induced Diabetic BALB/c mice. <i>Immunopharmacology and Immunotoxicology</i> , 2020 , 42, 48-55	3.2	2
24	Probing the effect of elevated cholesterol on the mechanical properties of membrane-cytoskeleton by optical tweezers 2010 ,		2
23	Vasectomy-induced superoxide dismutase inactivation in the male reproductive tract of rat: a prerequisite for spermatic granuloma formation. <i>Urologia Internationalis</i> , 1997 , 59, 23-5	1.9	2
22	Shielding the Negative Impact of Cadmium in Avian Embryos by Supplementing with Beetroot Juice. <i>Journal of Environmental Pathology, Toxicology and Oncology</i> , 2019 , 38, 353-364	2.1	2
21	Breast cancer drugs perturb fundamental vascular functions of endothelial cells by attenuating protein S-nitrosylation. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2020 , 47, 7-15	3	2
20	Ectopic release of nitric oxide modulates the onset of cardiac development in avian model. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020 , 56, 593-603	2.6	2
19	G protein β-ATM complexes drive acetaminophen-induced hepatotoxicity. <i>Redox Biology</i> , 2021 , 43, 101965	5.3	2
18	Inhibitors of Nitric Oxide Synthase: What's up and What's Next?. <i>Current Enzyme Inhibition</i> , 2016 , 12, 81-107	0.5	2
17	The expression dynamics of mechanosensitive genes in extra-embryonic vasculature after heart starts to beat in chick embryo. <i>Biorheology</i> , 2016 , 53, 33-47	1.7	2
16	Hepatic Regulator of G Protein Signaling 6 (RGS6) drives non-alcoholic fatty liver disease by promoting oxidative stress and ATM-dependent cell death. <i>Redox Biology</i> , 2021 , 46, 102105	11.3	2
15	Stimulated Microgravity and Induction of Angiogenesis; A New Perspective in Wound Healing 2017 , 495-516		1

14	Use of Stem Cells to Block the Activation of Hepatic Stellate Cells in Diseased Liver 2014 , 221-232		1
13	Regional variations in thiol distribution pattern and superoxide dismutase activity of the male reproductive tract of the rat modulate the transport of spermatozoa through the epididymis and vas deferens. <i>Urologia Internationalis</i> , 2001 , 66, 100-4	1.9	1
12	Gymnema montanum improves endothelial function via inhibition of endoplasmic reticulum stress by activating Nrf2 signaling. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2020 , 10, 379	1.4	1
11	COVID-19 and dys-regulation of pulmonary endothelium: implications for vascular remodeling. <i>Cytokine and Growth Factor Reviews</i> , 2021 , 63, 69-69	17.9	1
10	Nitrosative Stress and Cardiogenesis: Cardiac Remodelling Perturbs Embryonic Metabolome 2019 , 377-391		1
9	Nitric oxide donors offer protection to RBC from storage lesion. <i>Transfusion Clinique Et Biologique</i> , 2020 , 27, 229-236	1.9	1
8	Repurposing of thalidomide and its derivatives for the treatment of SARS-coV-2 infections: Hints on molecular action. <i>British Journal of Clinical Pharmacology</i> , 2021 , 87, 3835-3850	3.8	1
7	Temporal dynamics of nitric oxide wave in early vasculogenesis. <i>Vascular Medicine</i> , 2021 , 1358863X211035445		1
6	Developing a partially perfused liver model using caprine liver explant conditioned to the chicken extra-embryonic perfusion system. <i>Tissue and Cell</i> , 2020 , 62, 101308	2.7	0
5	Nitric oxide mitigates thalidomide-induced abnormalities during germination and development of fennel seeds. <i>Toxicology Research</i> , 2021 , 10, 893-901	2.6	0
4	Live Imaging and Analysis of Vasoactive Properties of Drugs Using an in-ovo Chicken Embryo Model: Replacing and Reducing Animal Testing. <i>Microscopy and Microanalysis</i> , 2019 , 25, 961-970	0.5	
3	Induced Stress on Red Blood Cell Promotes Red Blood Cell-Endothelial Adhesion. <i>Cell and Tissue Biology</i> , 2020 , 14, 448-457	0.4	
2	Regulation of Oxidative Stress by Nitric Oxide Defines Lung Development and Diseases 2020 , 445-464		
1	Developing an Ex Vivo Model of Ischemia Using Early Chick-Embryo: A Model to Study Ischemia Related Angiogenesis 2012 , 241-251		