Utpal Sen

List of Publications by Year in Descending Order

91 papers	5,790 citations	28 h-index	76 g-index
97 ext. papers	6,557 ext. citations	3.4 avg, IF	4.89 L-index

#	Paper	IF	Citations
91	Toll-like receptor 4 mutation protects the kidney from Ang-II-induced hypertensive injury.. *Pharmacological Research*, **2021**, 175, 106030	10.2	1
90	Exogenous hydrogen sulfide and miR-21 antagonism attenuates macrophage-mediated inflammation in ischemia reperfusion injury of the aged kidney. *GeroScience*, **2021**, 43, 1349-1367	8.9	8
89	Collagen receptor- and metalloproteinase-dependent hypertensive stress response in mesangial and glomerular endothelial cells. *Molecular and Cellular Biochemistry*, **2020**, 466, 1-15	4.2	1
88	Sodium-hydrogen exchanger regulatory factor-1 (NHERF1) confers salt sensitivity in both male and female models of hypertension in aging. *Life Sciences*, **2020**, 243, 117226	6.8	4
87	Methylation-dependent antioxidant-redox imbalance regulates hypertensive kidney injury in aging. *Redox Biology*, **2020**, 37, 101754	11.3	4
86	More than just an enzyme: Dipeptidyl peptidase-4 (DPP-4) and its association with diabetic kidney remodelling. *Pharmacological Research*, **2019**, 147, 104391	10.2	20
85	Hydrogen sulphide mitigates homocysteine-induced apoptosis and matrix remodelling in mesangial cells through Akt/FOXO1 signalling cascade. *Cellular Signalling*, **2019**, 61, 66-77	4.9	10
84	Hydrogen sulfide inhibits Ca-induced mitochondrial permeability transition pore opening in type-1 diabetes. *American Journal of Physiology - Endocrinology and Metabolism*, **2019**, 317, E269-E283	6	16
83	Exercise Induced Irisin Alleviates Type 1 Diabetic Nephropathy by Promoting Mitochondria Biogenesis and Function. *FASEB Journal*, **2019**, 33, 567.10	0.9	
82	Hydrogen Sulfide Protects Hyperhomocysteinemia-Induced Renal Damage by Modulation of Caveolin and eNOS Interaction. *Scientific Reports*, **2019**, 9, 2223	4.9	19
81	Altered microRNA regulation of short chain fatty acid receptors in the hypertensive kidney is normalized with hydrogen sulfide supplementation. *Pharmacological Research*, **2018**, 134, 157-165	10.2	10
80	Linking Toll-like Receptor 4, Gut Microbiota, and Doxycycline in the Hypertensive Kidney. *FASEB Journal*, **2018**, 32, 716.14	0.9	
79	Hypertension exaggerates renovascular resistance via miR-122-associated stress response in aging. *Journal of Hypertension*, **2018**, 36, 2226-2236	1.9	10
78	Hydrogen sulfide alleviates hypertensive kidney dysfunction through an epigenetic mechanism. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H874-H885	5.2	36
77	GYY4137, a Hydrogen Sulfide Donor Modulates miR194-Dependent Collagen Realignment in Diabetic Kidney. *Scientific Reports*, **2017**, 7, 10924	4.9	36
76	Toll-like Receptor 4 Deficiency Reduces Oxidative Stress and Macrophage Mediated Inflammation in Hypertensive Kidney. *Scientific Reports*, **2017**, 7, 6349	4.9	59
75	Mini-review: diabetic renal complications, a potential stinky remedy. *American Journal of Physiology - Renal Physiology*, **2016**, 310, F119-22	4.3	7

74	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
73	Regulation and involvement of matrix metalloproteinases in vascular diseases. *Frontiers in Bioscience - Landmark*, **2016**, 21, 89-118	2.8	47
72	Homocysteine and hydrogen sulfide in epigenetic, metabolic and microbiota related renovascular hypertension. *Pharmacological Research*, **2016**, 113, 300-312	10.2	40
71	Atherogenesis: hyperhomocysteinemia interactions with LDL, macrophage function, paraoxonase 1, and exercise. *Annals of the New York Academy of Sciences*, **2016**, 1363, 138-54	6.5	27
70	DNA hypermethylation in hyperhomocysteinemia contributes to abnormal extracellular matrix metabolism in the kidney. *FASEB Journal*, **2015**, 29, 4713-25	0.9	31
69	MMP-9- and NMDA receptor-mediated mechanism of diabetic renovascular remodeling and kidney dysfunction: hydrogen sulfide is a key modulator. *Nitric Oxide - Biology and Chemistry*, **2015**, 46, 172-85	5	33
68	Comparison of protein expression in kidney tubular apical and basolateral membranes in young and old rats. *FASEB Journal*, **2015**, 29, 969.9	0.9	
67	Deregulation of miR-21 Contributes to Differential Macrophage Activation in Acute Kidney Injury in Aged Mice. *FASEB Journal*, **2015**, 29, 807.9	0.9	
66	Hydrogen Sulfide Inhibits Ca2+-induced M itochondrial Permeability Transition Pore Opening in Type-1 Diabetes. *FASEB Journal*, **2015**, 29, 959.11	0.9	
65	Hydrogen sulfide mitigates hyperglycemic remodeling via liver kinase B1-adenosine monophosphate-activated protein kinase signaling. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2014**, 1843, 2816-26	4.9	38
64	Homocysteine in renovascular complications: hydrogen sulfide is a modulator and plausible anaerobic ATP generator. *Nitric Oxide - Biology and Chemistry*, **2014**, 41, 27-37	5	13
63	Endothelial dysfunction: the link between homocysteine and hydrogen sulfide. *Current Medicinal Chemistry*, **2014**, 21, 3662-72	4.3	117
62	Hydrogen sulfide deficiency and diabetic renal remodeling: role of matrix metalloproteinase-9. *American Journal of Physiology - Endocrinology and Metabolism*, **2013**, 304, E1365-78	6	58
61	Matrix Metalloproteinase Inhibition Mitigates Renovascular Remodeling in Salt-Sensitive Hypertension. *Physiological Reports*, **2013**, 1, e00063	2.6	24
60	Angiotensin-II induced hypertension and renovascular remodelling in tissue inhibitor of metalloproteinase 2 knockout mice. *Journal of Hypertension*, **2013**, 31, 2270-81; discussion 2281	1.9	30
59	Folic acid mitigates angiotensin-II-induced blood pressure and renal remodeling. *PLoS ONE*, **2013**, 8, e83813	3.7	27
58	Matrix Metalloproteinase Inhibition Protects Kidney from Adverse Remodeling Induced by Hypertension. *FASEB Journal*, **2013**, 27, 906.6	0.9	
57	H2S Therapy Improves MMP-9 and NMDA Receptor Mediated Diabetic Renovascular Remodeling. *FASEB Journal*, **2013**, 27, 702.9	0.9	

56	C3H Mice are Resistant to Hypertensive Renovascular Remodeling Due to Decreased Mitochondrial Oxidative Stress. *FASEB Journal*, **2013**, 27, 704.13	0.9	
55	Increased endogenous H2S generation by CBS, CSE, and 3MST gene therapy improves ex vivo renovascular relaxation in hyperhomocysteinemia. *American Journal of Physiology - Cell Physiology*, **2012**, 303, C41-51	5.4	82
54	Renovascular remodeling in Angiotensin-II induced hypertension is strain□dependent. *FASEB Journal*, **2012**, 26, lb809	0.9	
53	Hydrogen sulfide mitigates diabetic nephropathy through NMDA receptor mediated renal remodeling. *FASEB Journal*, **2012**, 26, 687.5	0.9	
52	Hydrogen sulfide mitigates renovascular matrix pathobiology in hyperhomocysteinemia. *FASEB Journal*, **2012**, 26, 866.4	0.9	
51	Hydrogen sulfide mitigates transition from compensatory hypertrophy to heart failure. *Journal of Applied Physiology*, **2011**, 110, 1093-100	3.7	53
50	Chronic hyperhomocysteinemia causes vascular remodelling by instigating vein phenotype in artery. *Archives of Physiology and Biochemistry*, **2011**, 117, 270-82	2.2	7
49	Cystathionine □synthase and cystathionine □lyase double gene transfer ameliorate homocysteine-mediated mesangial inflammation through hydrogen sulfide generation. *American Journal of Physiology - Cell Physiology*, **2011**, 300, C155-63	5.4	38
48	Cystathionine beta synthase gene dose dependent vascular remodeling in murine model of hyperhomocysteinemia. *International Journal of Physiology, Pathophysiology and Pharmacology*, **2011**, 3, 210-22	3.4	16
47	Remodeling in vein expresses arterial phenotype in hyperhomocysteinemia. *International Journal of Physiology, Pathophysiology and Pharmacology*, **2011**, 3, 266-79	3.4	4
46	The siRNA targeting MMP-9 mitigates Homocysteine induced dysruption of barrier integrity in Human intestinal microvascular cells. *FASEB Journal*, **2011**, 25, 1066.7	0.9	
45	Blood flow interplays with elastin: collagen and MMP: TIMP ratios to maintain healthy vascular structure and function. *Vascular Health and Risk Management*, **2010**, 6, 215-28	4.4	27
44	Homocysteine and Hypertension in Diabetes: Does PPARgamma Have a Regulatory Role?. *PPAR Research*, **2010**, 2010, 806538	4.3	35
43	Cardiac specific deletion of N-methyl-d-aspartate receptor 1 ameliorates mtMMP-9 mediated autophagy/mitophagy in hyperhomocysteinemia. *Journal of Receptor and Signal Transduction Research*, **2010**, 30, 78-87	2.6	51
42	Functional consequences of the collagen/elastin switch in vascular remodeling in hyperhomocysteinemic wild-type, eNOS-/-, and iNOS-/- mice. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2010**, 299, L301-11	5.8	47
41	Hydrogen sulfide regulates homocysteine-mediated glomerulosclerosis. *American Journal of Nephrology*, **2010**, 31, 442-55	4.6	67
40	Homocysteine to hydrogen sulfide or hypertension. *Cell Biochemistry and Biophysics*, **2010**, 57, 49-58	3.2	124
39	Blood Flow Regulates Vasculature by Maintaining Collagen/elastin and MMP/TIMP ratio. *FASEB Journal*, **2010**, 24, 790.3	0.9	

38	Role of dicer in diabetic cardiomyopathy through dysregulation of MMP-9 and TIMP-4. *FASEB Journal*, **2010**, 24, 978.19	0.9	
37	Inhibition of Matrix Metalloproteinase-9 (MMP-9) Reverses Changes in Vascular Wall Structure and Function of Thoracic Aorta of Dahl Salt-Sensitive (DSS) Rats. *FASEB Journal*, **2010**, 24, 599.4	0.9	
36	Folic acid mitigated homocysteine-mediated decrease in bone blood flow and bone remodeling. *FASEB Journal*, **2010**, 24, 630.7	0.9	
35	Tetrahydrocurcumin ameliorates mtMMP-9 mediated mitophagy and mitochondria remodeling in Stroke. *FASEB Journal*, **2010**, 24, 604.4	0.9	
34	Folic Acid Mitigated Cardiac Dysfunction by Normalizing the Levels of Tissue Inhibitor of Metalloproteinase and homocysteine-metabolizing enzymes Post myocardial Infarction in Mice.. *FASEB Journal*, **2010**, 24, 600.5	0.9	
33	Functional heterogeneity in vascular remodeling (MMP-9[illegible]and PAR-1[illegible]+) in hyperhomocysteinemic (CBS-/+) and diabetic (Akita, Ins2[illegible]+) mice.. *FASEB Journal*, **2010**, 24, 599.6	0.9	
32	Cystathionine [illegible]synthase and cystathionine [illegible]lyase double gene transfer ameliorated homocysteine-mediated mesangial inflammation through hydrogen sulfide generation. *FASEB Journal*, **2010**, 24, 590.6	0.9	
31	Fibrinogen-induced endothelin-1 production from endothelial cells. *American Journal of Physiology - Cell Physiology*, **2009**, 296, C840-7	5.4	41
30	Hydrogen sulfide ameliorates hyperhomocysteinemia-associated chronic renal failure. *American Journal of Physiology - Renal Physiology*, **2009**, 297, F410-9	4.3	122
29	Nitrotyrosinylation, remodeling and endothelial-myocyte uncoupling in iNOS, cystathionine beta synthase (CBS) knockouts and iNOS/CBS double knockout mice. *Journal of Cellular Biochemistry*, **2009**, 106, 119-26	4.7	25
28	Activation of GABA-A receptor ameliorates homocysteine-induced MMP-9 activation by ERK pathway. *Journal of Cellular Physiology*, **2009**, 220, 257-66	7	52
27	Matrix imbalance by inducing expression of metalloproteinase and oxidative stress in cochlea of hyperhomocysteinemic mice. *Molecular and Cellular Biochemistry*, **2009**, 332, 215-24	4.2	26
26	H2S protects against methionine-induced oxidative stress in brain endothelial cells. *Antioxidants and Redox Signaling*, **2009**, 11, 25-33	8.4	131
25	Activation of GABA[illegible]A receptor Protects Mitochondria and Reduces Cerebral ischemia.. *FASEB Journal*, **2009**, 23, 614.8	0.9	2
24	Hydrogen sulfide mitigates homocysteine-induced glomerular injury. *FASEB Journal*, **2009**, 23, 604.9	0.9	
23	Structural and Functional Heterogeneity in Vascular Remodeling. *FASEB Journal*, **2009**, 23, 593.20	0.9	
22	Cerebroprotective role of Tetrahydro Curcumin in hyperhomocysteinemic ischemic mice by regulating NF-kappa B. *FASEB Journal*, **2009**, 23, 614.7	0.9	
21	Role of MicroRNAs in homocysteine induced oxidative stress. *FASEB Journal*, **2009**, 23, 1038.9	0.9	

20	Cardioprotective role of sodium thiosulfate on chronic heart failure by modulating endogenous H2S generation. *Pharmacology*, **2008**, 82, 201-13	2.3	51
19	Ciglitazone, a PPARgamma agonist, ameliorates diabetic nephropathy in part through homocysteine clearance. *American Journal of Physiology - Endocrinology and Metabolism*, **2008**, 295, E1205-12	6	27
18	PPAR gamma agonist normalizes glomerular filtration rate, tissue levels of homocysteine, and attenuates endothelial-myocyte uncoupling in alloxan induced diabetic mice. *International Journal of Biological Sciences*, **2008**, 4, 236-44	11.2	16
17	Homocysteine attenuates blood brain barrier function by inducing oxidative stress and the junctional proteins. *FASEB Journal*, **2008**, 22, 734.7	0.9	2
16	Mechanism of homocysteine-induced dementia/spasm. *FASEB Journal*, **2008**, 22, 734.9	0.9	
15	Ex vivo real-time MMP activation in kidney in hyperhomocysteinemia. *FASEB Journal*, **2008**, 22, 942.10	0.9	
14	Effect of hydrogen sulfide on methionine-induced oxidative stress in brain endothelial cells. *FASEB Journal*, **2008**, 22, 734.8	0.9	
13	Hyperhomocysteinemia causes cardiac rhythm disturbances due to a shift in atrial and ventricular gap junction protein distribution. *FASEB Journal*, **2008**, 22, 971.10	0.9	
12	Role of Copper and Homocysteine in Pressure Overload Heart Failure. *FASEB Journal*, **2008**, 22, 1210.16	0.9	
11	Homocysteine-induced biochemical stress predisposes to cytoskeletal remodeling in stretched endothelial cells. *Molecular and Cellular Biochemistry*, **2007**, 302, 133-43	4.2	11
10	Cystathionine-beta-synthase gene transfer and 3-deazaadenosine ameliorate inflammatory response in endothelial cells. *American Journal of Physiology - Cell Physiology*, **2007**, 293, C1779-87	5.4	35
9	Synergism between AT1 receptor and hyperhomocysteinemia during vascular remodeling. *Clinical Chemistry and Laboratory Medicine*, **2007**, 45, 1771-6	5.9	21
8	Cardiac synchronous and dys-synchronous remodeling in diabetes mellitus. *Antioxidants and Redox Signaling*, **2007**, 9, 971-8	8.4	2
7	Early onset of atherosclerosis in ApoE-knockout mice is induced by in utero arsenic exposure. *FASEB Journal*, **2007**, 21, A810	0.9	1
6	Activation of GABAA receptor ameliorate homocysteine-induced MMP-9 by ERK pathway. *FASEB Journal*, **2007**, 21, A497	0.9	
5	Differential Expression of the GABAA receptor subunits in the Kidney and Cardiovascular system. *FASEB Journal*, **2007**, 21, A497	0.9	1
4	Homocysteine-induced myofibroblast differentiation in mouse aortic endothelial cells. *Journal of Cellular Physiology*, **2006**, 209, 767-74	7	28
3	Regulation of homocysteine-induced MMP-9 by ERK1/2 pathway. *American Journal of Physiology - Cell Physiology*, **2006**, 290, C883-91	5.4	79

2	Homocysteine alters Redox Regulation through Thioredoxin-Interacting Protein: A Novel role of Forkhead Transcription Factor (FOXO-3a/FKHR-L1). *FASEB Journal*, **2006**, 20, A1456	0.9	1
1	Homocysteine induces endothelial-myofibroblast differentiation through activation of focal adhesion kinase. *FASEB Journal*, **2006**, 20, A1465	0.9	