

# Anil Gulati

## List of Publications by Year in descending order

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117  
papers

2,295  
citations

201658

27  
h-index

315719

38  
g-index

126  
all docs

126  
docs citations

126  
times ranked

1612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of endothelin in the cardiovascular effects of diaspirin crosslinked and stroma reduced hemoglobin. <i>Critical Care Medicine</i> , 1996, 24, 137-147.	0.9	106
2	Neuroprotective and anti-apoptotic effects of liraglutide in the rat brain following focal cerebral ischemia. <i>Neuroscience</i> , 2014, 281, 269-281.	2.3	86
3	Evaluation of Vancomycin Exposures Associated with Elevations in Novel Urinary Biomarkers of Acute Kidney Injury in Vancomycin-Treated Rats. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5742-5751.	3.2	61
4	Repeated administration of exendin-4 reduces focal cerebral ischemia-induced infarction in rats. <i>Brain Research</i> , 2012, 1427, 23-34.	2.2	59
5	Pharmacology of hemoglobin therapeutics. <i>Translational Research</i> , 1999, 133, 112-119.	2.3	57
6	Effect of endothelin antagonist (TAK-044) on cerebral ischemic volume, oxidative stress markers and neurobehavioral parameters in the middle cerebral artery occlusion model of stroke in rats. <i>Life Sciences</i> , 2005, 77, 15-27.	4.3	53
7	Endothelin B receptor agonist, IRL-1620, enhances angiogenesis and neurogenesis following cerebral ischemia in rats. <i>Brain Research</i> , 2013, 1528, 28-41.	2.2	50
8	Endothelin B receptor agonist, IRL-1620, reduces neurological damage following permanent middle cerebral artery occlusion in rats. <i>Brain Research</i> , 2011, 1420, 48-58.	2.2	47
9	Comparative Performance of Urinary Biomarkers for Vancomycin-Induced Kidney Injury According to Timeline of Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	46
10	Endothelin B receptor agonist, IRL-1620, provides long-term neuroprotection in cerebral ischemia in rats. <i>Brain Research</i> , 2012, 1464, 14-23.	2.2	44
11	Stimulation of endothelin B receptors by IRL-1620 decreases the progression of Alzheimer's disease. <i>Neuroscience</i> , 2015, 301, 1-11.	2.3	44
12	Endothelin-A Receptor Antagonists Prevent Amyloid- $\beta$ -Induced Increase in ETA Receptor Expression, Oxidative Stress, and Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2011, 23, 491-503.	2.6	43
13	DOSE-DEPENDENT EFFECT OF DIASPIRIN CROSS-LINKED HEMOGLOBIN ON REGIONAL BLOOD CIRCULATION OF SEVERELY HEMORRHAGED RATS. <i>Shock</i> , 1998, 9, 65-73.	2.1	42
14	Twenty-four hour pharmacokinetic relationships for intravenous vancomycin and novel urinary biomarkers of acute kidney injury in a rat model. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 2326-2334.	3.0	41
15	Cerebral cortical 5-HT <sub>1</sub> , and 5-HT <sub>2</sub> , receptors of morphine tolerant-dependent rats. <i>Neuropharmacology</i> , 1988, 27, 1231-1237.	4.1	40
16	Endothelin B receptor agonist, IRL 1620, enhances the anti-tumor efficacy of paclitaxel in breast tumor rats. <i>Breast Cancer Research and Treatment</i> , 2005, 94, 237-247.	2.5	39
17	24-Hour Pharmacokinetic Relationships for Vancomycin and Novel Urinary Biomarkers of Acute Kidney Injury. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	39
18	Vascular Endothelium and Hypovolemic Shock. <i>Current Vascular Pharmacology</i> , 2016, 14, 187-195.	1.7	37

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19	Potential of morphine analgesia by BQ123, an endothelin antagonist. <i>Peptides</i> , 2002, 23, 1837-1845.	2.4	36
20	Endothelin receptor antagonists restore morphine analgesia in morphine tolerant rats. <i>Peptides</i> , 2003, 24, 553-561.	2.4	36
21	Endothelin receptor type B agonist, IRL-1620, prevents beta amyloid (A $\beta$ ) induced oxidative stress and cognitive impairment in normal and diabetic rats. <i>Pharmacology Biochemistry and Behavior</i> , 2014, 120, 65-72.	2.9	35
22	Endothelin Receptors, Mitochondria and Neurogenesis in Cerebral Ischemia. <i>Current Neuropharmacology</i> , 2016, 14, 619-626.	2.9	34
23	The pathophysiologies of asphyxial vs dysrhythmic cardiac arrest: implications for resuscitation and post-event management. <i>American Journal of Emergency Medicine</i> , 2015, 33, 1297-1304.	1.6	31
24	Role of ET and NO in resuscitative effect of diaspirin cross-linked hemoglobin after hemorrhage in rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H827-H836.	3.2	29
25	Characteristics of endothelin receptors in the central nervous system of spontaneously hypertensive rats. <i>Neuropharmacology</i> , 1992, 31, 243-250.	4.1	28
26	Cardiovascular effects of centrally administered endothelin-1 and its relationship to changes in cerebral blood flow. <i>Life Sciences</i> , 1995, 58, 437-445.	4.3	28
27	Systemic hemodynamic and regional circulatory effects of centrally administered endothelin-1 are mediated through ETA receptors. <i>Brain Research</i> , 1995, 676, 141-150.	2.2	27
28	Resuscitative effects of polynitroxylated $\alpha\beta$ -cross-linked hemoglobin following severe hemorrhage in the rat. <i>Free Radical Biology and Medicine</i> , 2000, 29, 764-774.	2.9	27
29	Regional Circulatory and Systemic Hemodynamic Effects of Diaspirin Cross-Linked Hemoglobin in the Rat. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1994, 22, 593-602.	0.9	26
30	Decompensation Characterized by Decreased Perfusion of the Heart and Brain during Hemorrhagic Shock: Role of Endothelin-1. <i>Journal of Trauma</i> , 2002, 53, 531-536.	2.3	26
31	A Novel Neuroregenerative Approach Using ETB Receptor Agonist, IRL-1620, to Treat CNS Disorders. <i>Physiological Research</i> , 2018, 67, S95-S113.	0.9	26
32	Effect of centrally administered endothelin agonists on systemic and regional blood circulation in the rat: role of sympathetic nervous system. <i>Neuropeptides</i> , 1997, 31, 301-309.	2.2	25
33	Determination of Adrenergic and Imidazoline Receptor Involvement in Augmentation of Morphine and Oxycodone Analgesia by Clonidine and BMS182874. <i>Pharmacology</i> , 2009, 83, 45-58.	2.2	25
34	Role of sympathetic nervous system in cardiovascular effects of centrally administered endothelin-1 in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1997, 273, H1177-H1186.	3.2	24
35	Evidence for the involvement of ET B receptors in ET-1-induced changes in blood flow to the rat breast tumor. <i>Cancer Chemotherapy and Pharmacology</i> , 2003, 51, 21-28.	2.3	24
36	Morphine tolerance does not develop in mice treated with endothelin-A receptor antagonists. <i>Brain Research</i> , 2005, 1064, 126-135.	2.2	24

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37	Endothelin-A receptor antagonist BQ123 potentiates acetaminophen induced hypothermia and reduces infarction following focal cerebral ischemia in rats. <i>European Journal of Pharmacology</i> , 2010, 644, 73-79.	3.5	24
38	Scale Reduction of a Systems Coagulation Model With an Application to Modeling Pharmacokineticâ€“Pharmacodynamic Data. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2014, 3, 1-8.	2.5	24
39	Endothelin modulates the cardiovascular effects of clonidine in the rat. <i>Pharmacological Research</i> , 2010, 62, 489-499.	7.1	23
40	Determination of $\alpha$ 2-adrenoceptor and imidazoline receptor involvement in augmentation of morphine and oxycodone analgesia by agmatine and BMS182874. <i>European Journal of Pharmacology</i> , 2011, 651, 109-121.	3.5	22
41	Selective Endothelin-B Receptor Stimulation Increases Vascular Endothelial Growth Factor in the Rat Brain during Postnatal Development. <i>Drug Research</i> , 2015, 65, 607-613.	1.7	22
42	Anti-apoptotic activity of ETB receptor agonist, IRL-1620, protects neural cells in rats with cerebral ischemia. <i>Scientific Reports</i> , 2019, 9, 10439.	3.3	21
43	Endothelin antagonizes the hypotension and potentiates the hypertension induced by clonidine. <i>European Journal of Pharmacology</i> , 1993, 230, 293-300.	3.5	20
44	Targeting endothelin receptors for pharmacotherapy of ischemic stroke: current scenario and future perspectives. <i>Drug Discovery Today</i> , 2012, 17, 793-804.	6.4	20
45	Sovateptide (IRL-1620) activates neuronal differentiation and prevents mitochondrial dysfunction in adult mammalian brains following stroke. <i>Scientific Reports</i> , 2020, 10, 12737.	3.3	20
46	Safety and Efficacy of Sovateptide (IRL-1620) in a Multicenter Randomized Controlled Clinical Trial in Patients with Acute Cerebral Ischemic Stroke. <i>CNS Drugs</i> , 2021, 35, 85-104.	5.9	20
47	Sovateptide (IRL-1620) affects neuronal progenitors and prevents cerebral tissue damage after ischemic stroke. <i>Canadian Journal of Physiology and Pharmacology</i> , 2020, 98, 659-666.	1.4	18
48	Cardiovascular Effects of Centrally Administered Endothelin-1 in Rats. <i>Journal of Cardiovascular Pharmacology</i> , 1995, 26, S244-246.	1.9	18
49	Ontogeny of endothelin and its receptors in rat brain. <i>Life Sciences</i> , 1992, 51, 1715-1724.	4.3	17
50	Diaspirin Cross-Linked Hemoglobin (DCLHB TM): Involvement of Adrenergic Mechanisms in the Pressor Effect. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 1994, 22, 603-612.	0.9	17
51	Resuscitative effect of centhaquin after hemorrhagic shock in rats. <i>Journal of Surgical Research</i> , 2013, 179, 115-124.	1.6	17
52	Prenatal Oxycodone Exposure Alters CNS Endothelin Receptor Expression in Neonatal Rats. <i>Drug Research</i> , 2016, 66, 246-250.	1.7	17
53	Exposure to Morphine and Caffeine Induces Apoptosis and Mitochondrial Dysfunction in a Neonatal Rat Brain. <i>Frontiers in Pediatrics</i> , 2020, 8, 593.	1.9	17
54	Repeated administration of ETB receptor agonist, IRL-1620, produces tachyphylaxis only to its hypotensive effect. <i>Pharmacological Research</i> , 2009, 60, 402-410.	7.1	16

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55	Endothelin ET <sub>A</sub> receptor antagonist reverses naloxone-precipitated opioid withdrawal in mice. Canadian Journal of Physiology and Pharmacology, 2015, 93, 935-944.	1.4	16
56	Effect of repeated administration of centhaquin, a centrally acting hypotensive drug, on adrenergic, cholinergic (muscarinic), dopaminergic, and serotonergic receptors in brain regions of rat. Drug Development Research, 1991, 23, 307-323.	2.9	14
57	IRL-1620, a tumor selective vasodilator, augments the uptake and efficacy of chemotherapeutic agents in prostate tumor rats. Prostate, 2007, 67, 701-713.	2.3	14
58	Study of Adrenergic, Imidazoline, and Endothelin Receptors in Clonidine-, Morphine-, and Oxycodone-Induced Changes in Rat Body Temperature. Pharmacology, 2011, 87, 169-179.	2.2	14
59	Centhaquin improves resuscitative effect of hypertonic saline in hemorrhaged rats. Journal of Surgical Research, 2012, 178, 415-423.	1.6	14
60	Tramadol antinociception is potentiated by clonidine through $\alpha_2$ -adrenergic and I <sub>2</sub> -imidazoline but not by endothelin ETA receptors in mice. European Journal of Pharmacology, 2012, 683, 109-115.	3.5	14
61	Centhaquin antinociception in mice is mediated by $\alpha_2A$ - and $\alpha_2B$ - but not $\alpha_2C$ -adrenoceptors. European Journal of Pharmacology, 2013, 715, 328-336.	3.5	14
62	Ontogeny of endothelin receptors in the brain, heart, and kidneys of neonatal rats. Brain and Development, 2015, 37, 206-215.	1.1	14
63	Endothelin ETA receptor antagonist, BQ-123, blocks the vasoconstriction induced by sarafotoxin 6b in the heart but not in other vascular beds. General Pharmacology, 1995, 26, 183-193.	0.7	13
64	Potential of oxycodone antinociception in mice by agmatine and BMS182874 via an imidazoline I <sub>2</sub> receptor-mediated mechanism. Pharmacology Biochemistry and Behavior, 2013, 103, 550-560.	2.9	13
65	Body mass index and outcome of out-of-hospital cardiac arrest patients not treated by targeted temperature management. American Journal of Emergency Medicine, 2017, 35, 1247-1251.	1.6	13
66	Resuscitation with centhaquin and 6% hydroxyethyl starch 130/0.4 improves survival in a swine model of hemorrhagic shock: a randomized experimental study. European Journal of Trauma and Emergency Surgery, 2019, 45, 1077-1085.	1.7	13
67	On the mechanism of potentiation of apomorphine-induced stereotypy due to electroconvulsive shock. Neuropharmacology, 1987, 26, 1733-1737.	4.1	12
68	Centhaquin improves survival in a swine model of hemorrhagic shock. Journal of Surgical Research, 2016, 200, 227-235.	1.6	12
69	Effect of combination of endothelin receptor antagonist (TAK-044) and aspirin in middle cerebral artery occlusion model of acute ischemic stroke in rats. Methods and Findings in Experimental and Clinical Pharmacology, 2007, 29, 257.	0.8	12
70	Understanding neurogenesis in the adult human brain. Indian Journal of Pharmacology, 2015, 47, 583.	0.7	11
71	Sovateltide Mediated Endothelin B Receptors Agonism and Curbing Neurological Disorders. International Journal of Molecular Sciences, 2022, 23, 3146.	4.1	11
72	Effect of repeated administration of clonidine on adrenergic, cholinergic (muscarinic), dopaminergic, and serotonergic receptors in brain regions of rats. Drug Development Research, 1991, 22, 141-152.	2.9	10

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73	Modification of systemic and regional circulatory effects of intracerebroventricular administration of endothelin-1 by propranolol in anesthetized rats. <i>General Pharmacology</i> , 1996, 27, 1025-1033.	0.7	10
74	IRL-1620, an Endothelin-B Receptor Agonist, Enhanced Radiation Induced Reduction in Tumor Volume in Dalton's Lymphoma Ascites Tumor Model. <i>Arzneimittelforschung</i> , 2012, 62, 14-17.	0.4	10
75	Efficacy of centhaquin as a small volume resuscitative agent in severely hemorrhaged rats. <i>American Journal of Emergency Medicine</i> , 2013, 31, 1315-1321.	1.6	10
76	Evaluation of liposomal nanocarriers loaded with ETB receptor agonist, IRL-1620, using cell-based assays. <i>Neuroscience</i> , 2016, 312, 141-152.	2.3	10
77	Differential Alteration in Striatal Dopaminergic and Cortical Serotonergic Receptors Induced by Repeated Administration of Haloperidol or Centbutindole in Rats. <i>Pharmacology</i> , 1988, 36, 396-404.	2.2	9
78	Evidence for antagonistic activity of endothelin for clonidine induced hypotension and bradycardia. <i>Life Sciences</i> , 1992, 50, 153-160.	4.3	9
79	Assessment of the Analgesic Effect of Centhaquin in Mouse Tail Flick and Hot-Plate Tests. <i>Pharmacology</i> , 2011, 88, 233-241.	2.2	9
80	Involvement of $\alpha_2$ -adrenoceptors, imidazoline, and endothelin-A receptors in the effect of agmatine on morphine and oxycodone-induced hypothermia in mice. <i>Fundamental and Clinical Pharmacology</i> , 2013, 27, 498-509.	1.9	9
81	Neurobiology of opioid withdrawal: Role of the endothelin system. <i>Life Sciences</i> , 2016, 159, 34-42.	4.3	9
82	Endothelin-1-induced Vasodilatation in Rat Breast Tumor is Mediated through Endothelin-B Receptors. <i>Journal of Cardiovascular Pharmacology</i> , 2004, 44, S483-S486.	1.9	8
83	Involvement of imidazoline and opioid receptors in the enhancement of clonidine-induced analgesia by sulfisoxazole. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010, 88, 541-552.	1.4	8
84	Endothelin-1 Decreases Excitability of the Dorsal Root Ganglion Neurons via ETB Receptor. <i>Molecular Neurobiology</i> , 2018, 55, 4297-4310.	4.0	8
85	Maternal Cannabinoid Use Alters Cannabinoid (CB <sub>1</sub> ) and Endothelin (ET <sub>B</sub> ) Receptor Expression in the Brains of Dams but Not Their Offspring. <i>Developmental Neuroscience</i> , 2017, 39, 498-506.	2.0	8
86	Neuroprotective Effect of IRL-1620, an Endothelin B Receptor Agonist, on a Pediatric Rat Model of Middle Cerebral Artery Occlusion. <i>Frontiers in Pediatrics</i> , 2018, 6, 310.	1.9	8
87	Centhaquine Restores Renal Blood Flow and Protects Tissue Damage After Hemorrhagic Shock and Renal Ischemia. <i>Frontiers in Pharmacology</i> , 2021, 12, 616253.	3.5	8
88	ETB receptor agonist, IRL 1620, does not affect paclitaxel plasma pharmacokinetics in breast tumour bearing rats. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 57, 869-876.	2.4	7
89	Emission of volatile organic compounds from medical equipment inside neonatal incubators. <i>Journal of Perinatology</i> , 2014, 34, 624-628.	2.0	7
90	Pharmacokinetics of centhaquin citrate in a rat model. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 56-62.	2.4	7

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91	Resuscitative Effect of Centhaquine (Lyfaquin <sup>®</sup> ) in Hypovolemic Shock Patients: A Randomized, Multicentric, Controlled Trial. <i>Advances in Therapy</i> , 2021, 38, 3223-3265.	2.9	7
92	Pharmacokinetics of centhaquin citrate in a dog model. <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 803-809.	2.4	6
93	Relationship Between Oxidative Stress Markers and Endothelin-1 Levels in Newborns of Different Gestational Ages. <i>Frontiers in Pediatrics</i> , 2020, 8, 279.	1.9	6
94	A Multicentric, Randomized, Controlled Phase III Study of Centhaquine (Lyfaquin <sup>®</sup> ) as a Resuscitative Agent in Hypovolemic Shock Patients. <i>Drugs</i> , 2021, 81, 1079-1100.	10.9	6
95	Centhaquine citrate. alpha2B-Adrenoceptor ligand, Resuscitative agent for hypovolemic shock. <i>Drugs of the Future</i> , 2020, 45, 153.	0.1	6
96	Stereoselectivity of $\mu$ -opiate receptor ligands in inhibiting the binding of [3H][3-MeHis2]thyrotrophin releasing hormone to brain membranes. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 40, 70-72.	2.4	5
97	Synthesis and antinociceptive properties of N-phenyl-N-(1-(2-(thiophen-2-yl)ethyl)azepane-4-yl)propionamide in the mouse tail-flick and hot-plate tests. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 644-648.	2.2	5
98	Centhaquin attenuates hyperalgesia and non-evoked guarding in a rat model of postoperative pain primarily through $\mu$ 2B -adrenoceptors. <i>European Journal of Pharmacology</i> , 2016, 789, 81-87.	3.5	5
99	Centhaquin Effects in a Swine Model of Ventricular Fibrillation. <i>Heart Lung and Circulation</i> , 2017, 26, 856-863.	0.4	5
100	Evaluation of Fetal and Maternal Vancomycin-Induced Kidney Injury during Pregnancy in a Rat Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	5
101	Anti-apoptotic and Immunomodulatory Effect of CB2 Agonist, JWH133, in a Neonatal Rat Model of Hypoxic-Ischemic Encephalopathy. <i>Frontiers in Pediatrics</i> , 2020, 8, 65.	1.9	5
102	Repeated Administration of Centhaquin to Pregnant Rats did not Affect Postnatal Development and Expression of Endothelin Receptors in the Brain, Heart or Kidney of Pups. <i>Arzneimittelforschung</i> , 2012, 62, 670-676.	0.4	4
103	Synthesis and Characterization of Centhaquin and its Citrate Salt and a Comparative Evaluation of their Cardiovascular Actions. <i>Drug Research</i> , 2015, 65, 184-191.	1.7	4
104	Endothelin-1 levels and renal function in newborns of various gestational ages. <i>Journal of Neonatal-Perinatal Medicine</i> , 2016, 9, 145-152.	0.8	4
105	Distinct Alteration in Brain Endothelin A and B Receptor Characteristics Following Focal Cerebral Ischemia in Rats. <i>Drug Research</i> , 2016, 66, 189-195.	1.7	4
106	Attenuation of opioid tolerance by ET B receptor agonist, IRL-1620, is independent of an accompanied decrease in nerve growth factor in mice. <i>Heliyon</i> , 2017, 3, e00317.	3.2	4
107	Towards long-acting adrenaline for cardiopulmonary resuscitation: Production and characterization of a liposomal formulation. <i>International Journal of Pharmaceutics</i> , 2019, 557, 105-111.	5.2	4
108	Neuroprotective Effect of Sovateltide (IRL 1620, PMZ 1620) in a Neonatal Rat Model of Hypoxic-Ischemic Encephalopathy. <i>Neuroscience</i> , 2022, 480, 194-202.	2.3	4

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109	534. Critical Care Medicine, 2013, 41, A130-A131.	0.9	3
110	1732: A PHASE II MULTICENTRIC RANDOMIZED CONTROLLED STUDY OF CENTHAQUINE IN HEMORRHAGIC SHOCK PATIENTS. Critical Care Medicine, 2020, 48, 840-840.	0.9	3
111	Effect of phototherapy on airborne concentrations of volatile organic compounds found in neonatal incubators. Journal of Neonatal-Perinatal Medicine, 2012, 5, 221-227.	0.8	1
112	Two-Dimensional Electrophoresis and Mass Spectrometry for Protein Identification. Methods in Molecular Biology, 2019, 2029, 185-195.	0.9	1
113	Cardiovascular effects of centrally administered endothelin-1 in rats. Journal of Cardiovascular Pharmacology, 1995, 26 Suppl 3, S244-6.	1.9	1
114	Attenuation of opioid tolerance by ETA receptor antagonist, BQ123, administered intravenously in mice. Journal of Pharmacy and Pharmacology, 2022, 74, 769-778.	2.4	1
115	Vancomycin Pharmacokinetics in a Pregnancy Rat Model. Antimicrobial Agents and Chemotherapy, 2022, 66, e0005622.	3.2	1
116	Alterations in Endothelin Receptors Following Hemorrhage and Resuscitation by Centhaquin. Physiological Research, 2018, 67, S199-S214.	0.9	0
117	Abstract 17521: Safety and Efficacy of Centhaquin as a Novel Resuscitative Agent for Hypovolemic Shock. Circulation, 2015, 132, .	1.6	0