

Bernd Mayer

List of Publications by Year in descending order

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329
papers

22,591
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6592

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13391
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#	ARTICLE	IF	CITATIONS
1	Potent and selective inhibition of nitric oxide-sensitive guanylyl cyclase by 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one. <i>Molecular Pharmacology</i> , 1995, 48, 184-8.	1.0	881
2	ATGL-mediated fat catabolism regulates cardiac mitochondrial function via PPAR- α and PGC-1. <i>Nature Medicine</i> , 2011, 17, 1076-1085.	15.2	612
3	Enzymatic function of nitric oxide synthases. <i>Cardiovascular Research</i> , 1999, 43, 521-531.	1.8	585
4	Biosynthesis and action of nitric oxide in mammalian cells. <i>Trends in Biochemical Sciences</i> , 1997, 22, 477-481.	3.7	553
5	Ca ²⁺ /calmodulin-dependent formation of hydrogen peroxide by brain nitric oxide synthase. <i>Biochemical Journal</i> , 1992, 281, 627-630.	1.7	545
6	Inhibition of nitric oxide synthesis by methylene blue. <i>Biochemical Pharmacology</i> , 1993, 45, 367-374.	2.0	461
7	Purification of a Ca ²⁺ /calmodulin-dependent nitric oxide synthase from porcine cerebellum. <i>FEBS Letters</i> , 1990, 277, 215-219.	1.3	420
8	Brain nitric oxide synthase is a biopterin- and flavin-containing multi-functional oxido-reductase. <i>FEBS Letters</i> , 1991, 288, 187-191.	1.3	386
9	Tetrahydrobiopterin Improves Endothelium-Dependent Vasodilation in Chronic Smokers. <i>Circulation Research</i> , 2000, 86, E36-41.	2.0	374
10	l-Ascorbic Acid Potentiates Endothelial Nitric Oxide Synthesis via a Chemical Stabilization of Tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2001, 276, 40-47.	1.6	367
11	Characterization of 1H-[1,2,4]oxadiazolo[4,3-a]quinoxalin-1-one as a heme-site inhibitor of nitric oxide-sensitive guanylyl cyclase. <i>Molecular Pharmacology</i> , 1996, 50, 1-5.	1.0	317
12	Metabolic Fate of Peroxynitrite in Aqueous Solution. <i>Journal of Biological Chemistry</i> , 1997, 272, 3465-3470.	1.6	288
13	Expression of nitric oxide synthase in kidney macula densa cells. <i>Kidney International</i> , 1992, 42, 1017-1019.	2.6	269
14	Biosynthesis of endothelium-derived relaxing factor: A cytosolic enzyme in porcine aortic endothelial cells Ca ²⁺ -dependently converts L-arginine into an activator of soluble guanylyl cyclase. <i>Biochemical and Biophysical Research Communications</i> , 1989, 164, 678-685.	1.0	265
15	Structural analysis of porcine brain nitric oxide synthase reveals a role for tetrahydrobiopterin and L-arginine in the formation of an SDS-resistant dimer.. <i>EMBO Journal</i> , 1995, 14, 3687-3695.	3.5	262
16	Nitric Oxide: Chemical Puzzles Posed by a Biological Messenger. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 1714-1731.	7.2	256
17	Multiple catalytic functions of brain nitric oxide synthase. Biochemical characterization, cofactor-requirement, and the role of N omega-hydroxy-L-arginine as an intermediate. <i>Journal of Biological Chemistry</i> , 1993, 268, 14781-14787.	1.6	236
18	How much nicotine kills a human? Tracing back the generally accepted lethal dose to dubious self-experiments in the nineteenth century. <i>Archives of Toxicology</i> , 2014, 88, 5-7.	1.9	221

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19	The pteridine binding site of brain nitric oxide synthase. Tetrahydrobiopterin binding kinetics, specificity, and allosteric interaction with the substrate domain.. Journal of Biological Chemistry, 1994, 269, 13861-13866.	1.6	202
20	Inhibition of nitric oxide synthesis by N ^G -nitro-L-arginine methyl ester (L-NAME): requirement for bioactivation to the free acid, N ^G -nitro-L-arginine. British Journal of Pharmacology, 1996, 118, 1433-1440.	2.7	199
21	Ca ²⁺ /calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase.. Journal of Biological Chemistry, 1992, 267, 11374-11378.	1.6	198
22	Nitric oxide synthase-containing neural processes on large cerebral arteries and cerebral microvessels. Brain Research, 1993, 606, 148-155.	1.1	196
23	Nitric oxide synthase in cardiac nerve fibers and neurons of rat and guinea pig heart.. Circulation Research, 1992, 71, 1533-1537.	2.0	190
24	A New Pathway of Nitric Oxide/Cyclic GMP Signaling Involving S-Nitrosoglutathione. Journal of Biological Chemistry, 1998, 273, 3264-3270.	1.6	188
25	Peroxynitrite-induced Accumulation of Cyclic GMP in Endothelial Cells and Stimulation of Purified Soluble Guanylyl Cyclase. Journal of Biological Chemistry, 1995, 270, 17355-17360.	1.6	181
26	Long-lasting increase of nitric oxide synthase immunoreactivity, NADPH-diaphorase reaction and c-JUN co-expression in rat dorsal root ganglion neurons following sciatic nerve transection. Neuroscience Letters, 1993, 150, 169-173.	1.0	176
27	Decomposition of S-Nitrosoglutathione in the Presence of Copper Ions and Glutathione. Archives of Biochemistry and Biophysics, 1996, 330, 219-228.	1.4	172
28	Long-lasting expression of JUN and KROX transcription factors and nitric oxide synthase in intrinsic neurons of the rat brain following axotomy. Journal of Neuroscience, 1993, 13, 4130-4145.	1.7	171
29	Ca ²⁺ /calmodulin-dependent cytochrome c reductase activity of brain nitric oxide synthase. Journal of Biological Chemistry, 1992, 267, 11374-8.	1.6	170
30	Characterization of Heme-deficient Neuronal Nitric-oxide Synthase Reveals a Role for Heme in Subunit Dimerization and Binding of the Amino Acid Substrate and Tetrahydrobiopterin. Journal of Biological Chemistry, 1996, 271, 7336-7342.	1.6	169
31	The pteridine binding site of brain nitric oxide synthase. Tetrahydrobiopterin binding kinetics, specificity, and allosteric interaction with the substrate domain. Journal of Biological Chemistry, 1994, 269, 13861-6.	1.6	169
32	Nitric oxide synthase in guinea pig lower airway innervation. Neuroscience Letters, 1993, 149, 157-160.	1.0	168
33	Multiple catalytic functions of brain nitric oxide synthase. Biochemical characterization, cofactor-requirement, and the role of N omega-hydroxy-L-arginine as an intermediate. Journal of Biological Chemistry, 1993, 268, 14781-7.	1.6	168
34	Characterization of the Inducible Nitric Oxide Synthase Oxygenase Domain Identifies a 49 Amino Acid Segment Required for Subunit Dimerization and Tetrahydrobiopterin Interaction. Biochemistry, 1997, 36, 10609-10619.	1.2	161
35	Tetrahydrobiopterin-dependent formation of endothelium-derived relaxing factor (nitric oxide) in aortic endothelial cells. Biochemical Journal, 1992, 281, 297-300.	1.7	159
36	Purification of soluble guanylyl cyclase from bovine lung by a new immunoaffinity chromatographic method. FEBS Journal, 1990, 190, 273-278.	0.2	158

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37	Lack of Tyrosine Nitration by Peroxynitrite Generated at Physiological pH. <i>Journal of Biological Chemistry</i> , 1998, 273, 27280-27285.	1.6	158
38	Reaction of Neuronal Nitric-oxide Synthase with Oxygen at Low Temperature. <i>Journal of Biological Chemistry</i> , 1998, 273, 13502-13508.	1.6	158
39	Tetrahydrobiopterin-Free Neuronal Nitric Oxide Synthase: Evidence for Two Identical Highly Anticooperative Pteridine Binding Sites. <i>Biochemistry</i> , 1996, 35, 16735-16745.	1.2	152
40	Protein tyrosine nitration in mouse peritoneal macrophages activated in vitro and in vivo: evidence against an essential role of peroxynitrite. <i>FASEB Journal</i> , 2001, 15, 2355-2364.	0.2	152
41	Characterization of bovine endothelial nitric oxide synthase as a homodimer with down-regulated uncoupled NADPH oxidase activity: tetrahydrobiopterin binding kinetics and role of haem in dimerization. <i>Biochemical Journal</i> , 1997, 323, 159-165.	1.7	151
42	Brain nitric oxide synthase is a haemoprotein. <i>Biochemical Journal</i> , 1992, 288, 15-17.	1.7	146
43	Nitric oxide synthase in VIP-containing vasodilator nerve fibres in the Guinea pig. <i>NeuroReport</i> , 1992, 3, 653.	0.6	145
44	Dityrosine Formation Outcompetes Tyrosine Nitration at Low Steady-state Concentrations of Peroxynitrite. <i>Journal of Biological Chemistry</i> , 2000, 275, 6346-6352.	1.6	143
45	Molecular mechanisms of inhibition of porcine brain nitric oxide synthase by the antinociceptive drug 7-nitro-indazole. <i>Neuropharmacology</i> , 1994, 33, 1253-1259.	2.0	141
46	Protein Tyrosine Nitration in Cytokine-activated Murine Macrophages. <i>Journal of Biological Chemistry</i> , 2001, 276, 34051-34058.	1.6	141
47	Regulation of Neuronal Nitric Oxide and Cyclic GMP Formation by Ca^{2+} . <i>Journal of Neurochemistry</i> , 1992, 59, 2024-2029.	2.1	141
48	Kinetics and Mechanism of Tetrahydrobiopterin-induced Oxidation of Nitric Oxide. <i>Journal of Biological Chemistry</i> , 1995, 270, 655-659.	1.6	138
49	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation. <i>Journal of Biological Chemistry</i> , 1994, 269, 1674-1680.	1.6	138
50	Tetrahydrobiopterin and Nitric Oxide: Mechanistic and Pharmacological Aspects. <i>Experimental Biology and Medicine</i> , 2003, 228, 1291-1302.	1.1	130
51	Functional and Analytical Evidence for Scavenging of Oxygen Radicals by L-Arginine. <i>Molecular Pharmacology</i> , 2002, 61, 1081-1088.	1.0	124
52	Nitric oxide synthase immunoreactive neurons anatomically define a longitudinal dorsolateral column within the midbrain periaqueductal gray of the rat: analysis using laser confocal microscopy. <i>Brain Research</i> , 1993, 610, 317-324.	1.1	123
53	S-nitrosation of glutathione by nitric oxide, peroxynitrite, and NO_2^+ . <i>Free Radical Biology and Medicine</i> , 2003, 34, 1078-1088.	1.3	121
54	In search of a function for tetrahydrobiopterin in the biosynthesis of nitric oxide. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1995, 351, 453-63.	1.4	119

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55	Attenuation of myocardial ischemia/reperfusion injury in mice with myocyte-specific overexpression of endothelial nitric oxide synthase. <i>Cardiovascular Research</i> , 2003, 57, 55-62.	1.8	119
56	Inhibitors of brain nitric oxide synthase. Binding kinetics, metabolism, and enzyme inactivation. <i>Journal of Biological Chemistry</i> , 1994, 269, 1674-80.	1.6	118
57	Nitric oxide synthase immunoreactivity in the enteric nervous system of the developing human digestive tract. <i>Cell and Tissue Research</i> , 1994, 275, 235-245.	1.5	114
58	Multiple populations of neuropeptide-containing intrinsic neurons in the guinea-pig heart. <i>Neuroscience</i> , 1994, 62, 241-250.	1.1	114
59	Expression of nitric oxide synthase and colocalisation with Jun, Fos and Krox transcription factors in spinal cord neurons following noxious stimulation of the rat hindpaw. <i>Molecular Brain Research</i> , 1994, 22, 245-258.	2.5	113
60	Myocardial Contractile Function and Heart Rate in Mice With Myocyte-Specific Overexpression of Endothelial Nitric Oxide Synthase. <i>Circulation</i> , 2001, 104, 3097-3102.	1.6	112
61	Tetrahydrobiopterin Binding to Macrophage Inducible Nitric Oxide Synthase: Heme Spin Shift and Dimer Stabilization by the Potent Pterin Antagonist 4-Amino-Tetrahydrobiopterin. <i>Biochemistry</i> , 1997, 36, 8422-8427.	1.2	111
62	Nitric-oxide synthase: A cytochrome P450 family foster child. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2007, 1770, 432-445.	1.1	110
63	The enigma of nitroglycerin bioactivation and nitrate tolerance: news, views and troubles. <i>British Journal of Pharmacology</i> , 2008, 155, 170-184.	2.7	98
64	Formation of a protonated trihydrobiopterin radical cation in the first reaction cycle of neuronal and endothelial nitric oxide synthase detected by electron paramagnetic resonance spectroscopy. <i>Journal of Biological Inorganic Chemistry</i> , 2001, 6, 151-158.	1.1	98
65	Tetrahydrobiopterin in Nitric Oxide Synthesis: A Novel Biological Role for Pteridines. <i>Current Drug Metabolism</i> , 2002, 3, 133-157.	0.7	91
66	Nitric oxide synthase is found in some spinothalamic neurons and in neuronal processes that appose spinal neurons that express Fos induced by noxious stimulation. <i>Brain Research</i> , 1993, 608, 324-333.	1.1	90
67	Nitric oxide synthase in the brain of the turtle <i>Pseudemys scripta elegans</i> . <i>Journal of Comparative Neurology</i> , 1994, 348, 183-206.	0.9	90
68	Role of Bound Zinc in Dimer Stabilization but Not Enzyme Activity of Neuronal Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2000, 275, 35786-35791.	1.6	90
69	Identification of the 4-amino analogue of tetrahydrobiopterin as a dihydropteridine reductase inhibitor and a potent pteridine antagonist of rat neuronal nitric oxide synthase. <i>Biochemical Journal</i> , 1996, 320, 193-196.	1.7	89
70	Structural analysis of porcine brain nitric oxide synthase reveals a role for tetrahydrobiopterin and L-arginine in the formation of an SDS-resistant dimer. <i>EMBO Journal</i> , 1995, 14, 3687-95.	3.5	89
71	Effect of calcium on endothelium-derived relaxing factor formation and cGMP levels in endothelial cells. <i>European Journal of Pharmacology</i> , 1989, 170, 157-166.	1.7	88
72	Patterns of Mobilization of Copper and Iron Following Myocardial Ischemia: Possible Predictive Criteria for Tissue Injury. <i>Journal of Molecular and Cellular Cardiology</i> , 1997, 29, 3025-3034.	0.9	88

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73	Na ⁺ /Ca ²⁺ Exchange Facilitates Ca ²⁺ -dependent Activation of Endothelial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 29529-29535.	1.6	87
74	Contribution of aldehyde dehydrogenase to mitochondrial bioactivation of nitroglycerin: evidence for the activation of purified soluble guanylate cyclase through direct formation of nitric oxide. <i>Biochemical Journal</i> , 2005, 385, 769-777.	1.7	86
75	Histochemical and immunocytochemical localization of nitric oxide synthase in the central nervous system of the goldfish, <i>Carassius auratus</i> . <i>Journal of Comparative Neurology</i> , 1995, 358, 353-382.	0.9	85
76	Nitric Oxide Synthase(NOS-I) in Leydig Cells of the Human Testis.. <i>Archives of Histology and Cytology</i> , 1995, 58, 17-30.	0.2	84
77	Species-independent expression of nitric oxide synthase in the sarcolemma region of visceral and somatic striated muscle fibers. <i>Cell and Tissue Research</i> , 1995, 281, 493-499.	1.5	82
78	Species differences in choroidal vasodilative innervation: evidence for specific intrinsic nitrergic and VIP-positive neurons in the human eye. <i>Investigative Ophthalmology and Visual Science</i> , 1994, 35, 592-9.	3.3	81
79	Interference of Carboxy-PTIO with Nitric Oxide- and Peroxynitrite-Mediated Reactions. <i>Free Radical Biology and Medicine</i> , 1997, 22, 787-794.	1.3	80
80	Release of nitric oxide from donors with known half-life: a mathematical model for calculating nitric oxide concentrations in aerobic solutions. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997, 355, 457-462.	1.4	79
81	Assessment of nitric oxide synthase activity in vitro and in vivo by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 2000, 742, 143-153.	1.7	79
82	Enzymology of Nitric Oxide Synthases. , 1998, 100, 1-32.		78
83	Novel guanylyl cyclase inhibitor potently inhibits cyclic GMP accumulation in endothelial cells and relaxation of bovine pulmonary artery. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 1996, 277, 48-53.	1.3	78
84	Reaction of peroxynitrite with oxyhaemoglobin: interference with photometrical determination of nitric oxide. <i>Biochemical Journal</i> , 1994, 301, 645-647.	1.7	74
85	Nitric oxide synthases: catalytic function and progress towards selective inhibition. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1998, 358, 127-133.	1.4	74
86	Colocalization of vasoactive intestinal peptide and nitric oxide synthase in neurons of the ferret trachea. <i>Neuroscience</i> , 1993, 54, 839-843.	1.1	73
87	The distribution and co-localization of immunoreactivity to nitric oxide synthase, vasoactive intestinal polypeptide and substance P within nerve fibres supplying bovine and porcine female genital organs. <i>Cell and Tissue Research</i> , 1995, 281, 445-464.	1.5	73
88	Cardiomyocyte Overexpression of Neuronal Nitric Oxide Synthase Delays Transition Toward Heart Failure in Response to Pressure Overload by Preserving Calcium Cycling. <i>Circulation</i> , 2008, 117, 3187-3198.	1.6	73
89	Neurochemical characterization of intrinsic neurons in ferret tracheal plexus.. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1996, 14, 207-216.	1.4	72
90	Low-Temperature Optical Absorption Spectra Suggest a Redox Role for Tetrahydrobiopterin in Both Steps of Nitric Oxide Synthase Catalysis. <i>Biochemistry</i> , 2000, 39, 11763-11770.	1.2	71

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91	Nitric oxide synthase and NADP-linked glucose-6-phosphate dehydrogenase are co-localized in brush cells of rat stomach and pancreas.. Journal of Histochemistry and Cytochemistry, 1994, 42, 1317-1321.	1.3	70
92	Neuronal and endothelial nitric oxide synthase immunoreactivity and NADPH-diaphorase staining in rat and human pancreas: influence of fixation. Histochemistry, 1994, 102, 353-364.	1.9	70
93	Analysis of Neuronal NO Synthase under Single-Turnover Conditions:Â Conversion ofNÎ‰-Hydroxyarginine to Nitric Oxide and Citrullineâ€. Biochemistry, 1997, 36, 10811-10816.	1.2	70
94	Distribution pattern, neurochemical features and projections of nitrenergic neurons in the pig small intestine. Annals of Anatomy, 1994, 176, 515-525.	1.0	69
95	TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1. Cardiovascular Research, 2015, 106, 163-173.	1.8	69
96	Neurochemical differentiation of rat enteric neurons during pre- and postnatal life. Cell and Tissue Research, 1997, 288, 11-23.	1.5	68
97	Effects of pH on the structure and function of neuronal nitric oxide synthase. Biochemical Journal, 1998, 331, 801-807.	1.7	68
98	Bioactivation of Nitroglycerin by Purified Mitochondrial and Cytosolic Aldehyde Dehydrogenases. Journal of Biological Chemistry, 2008, 283, 17873-17880.	1.6	68
99	Localization of nitric oxide synthase in the brain of the frog,Xenopus laevis. Brain Research, 1996, 741, 331-343.	1.1	67
100	Immunocytochemical and histochemical localization of nitric oxide synthase in the turtle retina. Visual Neuroscience, 1997, 14, 717-729.	0.5	67
101	Expression of rat brain nitric oxide synthase in baculovirus-infected insect cells and characterization of the purified enzyme. Biochemical Journal, 1994, 304, 683-686.	1.7	66
102	Characterization of endothelial cell amino acid transport systems involved in the actions of nitric oxide synthase inhibitors. Molecular Pharmacology, 1993, 44, 615-21.	1.0	64
103	Nitrenergic innervation of the rat esophagus: Focus on motor endplates. Journal of the Autonomic Nervous System, 1994, 49, 227-233.	1.9	63
104	Electrochemistry of Pterin Cofactors and Inhibitors of Nitric Oxide Synthase. Nitric Oxide - Biology and Chemistry, 2001, 5, 176-186.	1.2	63
105	Distribution and morphological features of nitrenergic neurons in the porcine large intestine. Histochemistry, 1993, 100, 27-34.	1.9	62
106	Neuronal Nitric-oxide Synthase Interaction with Calmodulin-Troponin C Chimeras. Journal of Biological Chemistry, 1998, 273, 5451-5454.	1.6	62
107	Nitric oxide synthase neurons in rat brain express more NMDA receptor mRNA than non-NOS neurons. NeuroReport, 1993, 4, 807-810.	0.6	61
108	The role of tetrahydrobiopterin in the activation of oxygen by nitric-oxide synthase. Journal of Inorganic Biochemistry, 2000, 81, 207-211.	1.5	61

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109	Distribution of Nitric Oxide Synthase in the Human Cerebral Blood Vessels and Brain Tissues. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994, 14, 930-938.	2.4	60
110	Functional Cardiac Lipolysis in Mice Critically Depends on Comparative Gene Identification-58. <i>Journal of Biological Chemistry</i> , 2013, 288, 9892-9904.	1.6	60
111	Nitric oxide synthase in the rat carotid body and carotid sinus. <i>Cell and Tissue Research</i> , 1994, 276, 559-564.	1.5	59
112	Characterization of Recombinant Human Endothelial Nitric-oxide Synthase Purified from the Yeast <i>Pichia pastoris</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 37658-37664.	1.6	59
113	Allosteric modulation of rat brain nitric oxide synthase by the pterin-site enzyme inhibitor 4-aminotetrahydrobiopterin. <i>Biochemical Journal</i> , 1997, 328, 349-352.	1.7	58
114	Single-turnover of Nitric-oxide Synthase in the Presence of 4-Amino-tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2003, 278, 48602-48610.	1.6	58
115	Mechanisms Underlying Activation of Soluble Guanylate Cyclase by the Nitroxyl Donor Angeli's Salt. <i>Molecular Pharmacology</i> , 2009, 76, 1115-1122.	1.0	58
116	Morphological analyses of NADPH-diaphorase/nitric oxide synthase positive structures in human visual cortex. <i>Journal of Neurocytology</i> , 1994, 23, 770-782.	1.6	57
117	Molecular Mechanisms Involved in the Synergistic Activation of Soluble Guanylyl Cyclase by YC-1 and Nitric Oxide in Endothelial Cells. <i>Molecular Pharmacology</i> , 2001, 59, 220-224.	1.0	57
118	S-Nitrosation Controls Gating and Conductance of the $\hat{I}\pm 1$ Subunit of Class C L-type Ca^{2+} Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 14797-14803.	1.6	57
119	Thiols and Neuronal Nitric Oxide Synthase:â€‰% Complex Formation, Competitive Inhibition, and Enzyme Stabilization. <i>Biochemistry</i> , 1997, 36, 4360-4366.	1.2	56
120	Tetrahydrobiopterin, Cytokines, and Nitric Oxide Synthesis. <i>Experimental Biology and Medicine</i> , 1998, 219, 171-182.	1.1	55
121	Interaction of Endothelial and Neuronal Nitric-oxide Synthases with the Bradykinin B2 Receptor. <i>Journal of Biological Chemistry</i> , 2000, 275, 5291-5296.	1.6	55
122	Nitric oxide/cGMP pathway components in the Leydig cells of the human testis. <i>Cell and Tissue Research</i> , 1996, 287, 161-170.	1.5	54
123	Molecular Actions of a Mn(III)Porphyrin Superoxide Dismutase Mimetic and Peroxynitrite Scavenger: Reaction with Nitric Oxide and Direct Inhibition of NO Synthase and Soluble Guanylyl Cyclase. <i>Molecular Pharmacology</i> , 1998, 53, 795-800.	1.0	54
124	Nitric Oxide Synthase-Catalyzed Activation of Oxygen and Reduction of Cytochromes: Reaction Mechanisms and Possible Physiological Implications. <i>Journal of Cardiovascular Pharmacology</i> , 1992, 20, S54-S56.	0.8	53
125	Inactivation of Soluble Guanylate Cyclase by Stoichiometric S-Nitrosation. <i>Molecular Pharmacology</i> , 2009, 75, 886-891.	1.0	53
126	Possible inhibitory function of endogenous 15-hydroperoxyeicosatetraenoic acid on prostacyclin formation in bovine aortic endothelial cells. <i>Lipids and Lipid Metabolism</i> , 1986, 875, 641-653.	2.6	52

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127	Nitric oxide synthase-containing nerve fibers and neurons in the genital tract of the female mouse. <i>Cell and Tissue Research</i> , 1994, 275, 355-360.	1.5	52
128	Immunocytochemical localization of nitric oxide synthase in the brain of the chicken. <i>NeuroReport</i> , 1994, 5, 2425-2428.	0.6	52
129	Activation of Soluble Guanylyl Cyclase by the Nitrovasodilator 3-Morpholinosydnonimine Involves Formation of S-Nitrosoglutathione. <i>Molecular Pharmacology</i> , 1998, 54, 207-212.	1.0	52
130	Characterization of lipoxygenase metabolites of arachidonic acid in cultured human skin fibroblasts. <i>Lipids and Lipid Metabolism</i> , 1984, 795, 151-161.	2.6	51
131	Uptake of nitric oxide synthase inhibitors by macrophage RAW 264.7 cells. <i>Biochemical Journal</i> , 1994, 301, 313-316.	1.7	48
132	Transient changes in the presence of nitric oxide synthases and nitrotyrosine immunoreactivity after focal cortical lesions. <i>Neuroscience</i> , 1997, 82, 377-395.	1.1	48
133	Ca ²⁺ /calmodulin-dependent nitric oxide synthase activity in the human cervix carcinoma cell line ME-180. <i>Biochemical Journal</i> , 1993, 289, 357-361.	1.7	46
134	Functional characterization of Glu298Asp mutant human endothelial nitric oxide synthase purified from a yeast expression system. <i>Nitric Oxide - Biology and Chemistry</i> , 2003, 8, 7-14.	1.2	46
135	Electrochemical Determination of S-Nitrosothiols with a Clark-Type Nitric Oxide Electrode. <i>Analytical Biochemistry</i> , 1998, 258, 68-73.	1.1	45
136	The alpha-amino group of L-arginine mediates its antioxidant effect. <i>European Journal of Clinical Investigation</i> , 2001, 31, 98-102.	1.7	45
137	Characterization of the East Asian Variant of Aldehyde Dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2010, 285, 943-952.	1.6	45
138	Nitric oxide synthase-expressing neurons are area-specifically distributed within the cerebral cortex of the rat. <i>Neuroscience</i> , 1997, 81, 321-330.	1.1	44
139	Neuronal nitric oxide synthase (nNOS) expression in the epithelial neuroendocrine cell system and nerve fibers in the gill of the catfish, <i>Heteropneustes fossilis</i> . <i>Acta Histochemica</i> , 1999, 101, 437-448.	0.9	44
140	Biosynthesis of nitric oxide: Dependence on pteridine metabolism. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 1995, 127, 97-135.	0.9	43
141	Nitric oxide synthase in the peripheral nervous system of the goldfish, <i>Carassius auratus</i> . <i>Cell and Tissue Research</i> , 1996, 284, 87-98.	1.5	43
142	The protein inhibitor of neuronal nitric oxide synthase (PIN): characterization of its action on pure nitric oxide synthases. <i>FEBS Letters</i> , 1998, 430, 397-400.	1.3	43
143	Vascular Bioactivation of Nitroglycerin Is Catalyzed by Cytosolic Aldehyde Dehydrogenase-2. <i>Circulation Research</i> , 2012, 110, 385-393.	2.0	43
144	Activation of Neuronal Nitric-oxide Synthase by the 5-Methyl Analog of Tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 1999, 274, 16047-16051.	1.6	42

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145	Parasympathetic preganglionic neurons in the spinal cord involved in uterine innervation are cholinergic and nitric oxide-containing. <i>The Anatomical Record</i> , 1995, 241, 554-562.	2.3	41
146	Regulation of nitric oxide synthase and soluble guanylyl cyclase. <i>Cell Biochemistry and Function</i> , 1994, 12, 167-177.	1.4	40
147	Overexpression of neuronal nitric oxide synthase in insect cells reveals requirement of haem for tetrahydrobiopterin binding. <i>Biochemical Journal</i> , 1996, 315, 57-63.	1.7	40
148	Nitroergic and VIPergic neurons in the choroid and ciliary ganglion of the duck <i>Anis carina</i> . <i>Anatomy and Embryology</i> , 1996, 193, 239-48.	1.5	40
149	Measurement of prostaglandins, thromboxanes and hydroxy fatty acids by stable isotope dilution gas chromatography/mass spectrometry. <i>Biomedical & Environmental Mass Spectrometry</i> , 1987, 14, 617-621.	1.6	39
150	Stimulation of human nitric oxide synthase by tetrahydrobiopterin and selective binding of the cofactor. <i>FEBS Letters</i> , 1992, 305, 160-162.	1.3	39
151	Nitric oxide synthase in vagal sensory and sympathetic neurons innervating the guinea-pig trachea. <i>Journal of the Autonomic Nervous System</i> , 1996, 56, 157-160.	1.9	39
152	Role of endothelin, nitric oxide and L-arginine release in ischaemia/reperfusion injury of rat heart. <i>Cardiovascular Research</i> , 1997, 36, 60-66.	1.8	39
153	Site and mechanism of uncoupling of nitric-oxide synthase: Uncoupling by monomerization and other misconceptions. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 89, 14-21.	1.2	39
154	Ca ²⁺ -dependent formation of an L-arginine-derived activator of soluble guanylyl cyclase in bovine lung. <i>FEBS Letters</i> , 1989, 256, 211-214.	1.3	38
155	Activation of soluble guanylate cyclase by nitrovasodilators is inhibited by oxidized low-density lipoprotein. <i>Biochemical and Biophysical Research Communications</i> , 1990, 172, 614-619.	1.0	38
156	Immunohistochemical demonstration of the synthesis enzyme for nitric oxide and of comediators in neurons and chromaffin cells of the human adrenal medulla. <i>Annals of Anatomy</i> , 1994, 176, 11-16.	1.0	38
157	Spatial relationships of enteric nerve fibers to vagal motor terminals and the sarcolemma in motor endplates of the rat esophagus: a confocal laser scanning and electron-microscopic study. <i>Cell and Tissue Research</i> , 1996, 287, 113-118.	1.5	38
158	Preferential inhibition of inducible nitric oxide synthase in intact cells by the 4-amino analogue of tetrahydrobiopterin. <i>FEBS Journal</i> , 1999, 259, 25-31.	0.2	38
159	Characterization of Neuronal Amino Acid Transporters: Uptake of Nitric Oxide Synthase Inhibitors and Implication for Their Biological Effects. <i>Journal of Neurochemistry</i> , 1995, 64, 1469-1475.	2.1	38
160	Distribution of Constitutive Nitric Oxide Synthase Immunoreactivity and NADPH-Diaphorase Activity in Murine Telogen and Anagen Skin. <i>Journal of Investigative Dermatology</i> , 1994, 103, 112-115.	0.3	37
161	Partially Irreversible Inactivation of Mitochondrial Aldehyde Dehydrogenase by Nitroglycerin. <i>Journal of Biological Chemistry</i> , 2008, 283, 30735-30744.	1.6	37
162	Cardiac dysfunction in adipose triglyceride lipase deficiency: treatment with a PPAR α agonist. <i>British Journal of Pharmacology</i> , 2012, 165, 380-389.	2.7	37

#	ARTICLE	IF	CITATIONS
163	Efficient nitrosation of glutathione by nitric oxide. <i>Free Radical Biology and Medicine</i> , 2013, 63, 51-64.	1.3	37
164	Sensitivity of Flavin Fluorescence Dynamics in Neuronal Nitric Oxide Synthase to Cofactor-Induced Conformational Changes and Dimerization. <i>Biochemistry</i> , 1998, 37, 17545-17553.	1.2	36
165	Effect of Hypercholesterolemia on Expression and Function of Vascular Soluble Guanylyl Cyclase. <i>Circulation</i> , 2002, 105, 855-860.	1.6	35
166	Arginine Availability Controls the N-Methyl-d-Aspartate-Induced Nitric Oxide Synthesis: Involvement of a Glial-Neuronal Arginine Transfer. <i>Journal of Neurochemistry</i> , 2002, 71, 2139-2144.	2.1	35
167	Determination of nitric oxide synthase cofactors: Heme, FAD, FMN, and tetrahydrobiopterin. <i>Methods in Enzymology</i> , 1996, 268, 358-365.	0.4	34
168	Nitric oxide synthase-containing neurons in the pig large intestine: Topography, morphology, and viscerofugal projections. <i>Microscopy Research and Technique</i> , 1994, 29, 72-78.	1.2	33
169	Vascular Bioactivation of Nitroglycerin by Aldehyde Dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2012, 287, 38124-38134.	1.6	33
170	Dipeptidyl peptidase-4 independent cardiac dysfunction links saxagliptin to heart failure. <i>Biochemical Pharmacology</i> , 2017, 145, 64-80.	2.0	33
171	The Effect of NO-Donors in Bovine and Rat Pineal Cells: Stimulation of cGMP and cGMP-Independent Inhibition of Melatonin Synthesis. <i>Journal of Neuroendocrinology</i> , 1995, 7, 207-214.	1.2	32
172	Role of the General Base Glu-268 in Nitroglycerin Bioactivation and Superoxide Formation by Aldehyde Dehydrogenase-2. <i>Journal of Biological Chemistry</i> , 2009, 284, 19878-19886.	1.6	32
173	Mitochondrial nitrite reduction coupled to soluble guanylate cyclase activation: Lack of evidence for a role in the bioactivation of nitroglycerin. <i>Nitric Oxide - Biology and Chemistry</i> , 2009, 20, 53-60.	1.2	32
174	Qualitative and quantitative measurement of hydroxy fatty acids, thromboxanes and prostaglandins using stable isotope dilutions and detection by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 1985, 344, 11-21.	1.7	31
175	Differential maturational patterns of nitric oxide synthase-I and NADPH diaphorase in functionally distinct cortical areas of the mouse cerebral cortex. <i>Anatomy and Embryology</i> , 1999, 200, 27-41.	1.5	31
176	Evidence of Two Distinct Oxygen Complexes of Reduced Endothelial Nitric Oxide Synthase. <i>Journal of Biological Chemistry</i> , 2004, 279, 19824-19831.	1.6	31
177	Formation of Nitric Oxide by Aldehyde Dehydrogenase-2 Is Necessary and Sufficient for Vascular Bioactivation of Nitroglycerin. <i>Journal of Biological Chemistry</i> , 2016, 291, 24076-24084.	1.6	31
178	Reversible inactivation of endothelial nitric oxide synthase by NG-nitro-L-arginine. <i>FEBS Letters</i> , 1993, 333, 203-206.	1.3	30
179	Demonstration of nitric oxide synthase (NOS) in marmosets by NADPH diaphorase (NADPH-d) histochemistry and NOS immunoreactivity. <i>Acta Histochemica</i> , 1995, 97, 321-331.	0.9	30
180	Molecular characteristics and enzymology of nitric oxide synthase and soluble guanylyl cyclase in the CNS. <i>Seminars in Neuroscience</i> , 1993, 5, 197-205.	2.3	29

#	ARTICLE	IF	CITATIONS
181	Nitroergic innervation and nitroergic cells in arteriovenous anastomoses. <i>Cell and Tissue Research</i> , 1994, 277, 477-484.	1.5	29
182	Haem insertion, dimerization and reactivation of haem-free rat neuronal nitric oxide synthase. <i>Biochemical Journal</i> , 1998, 332, 337-342.	1.7	29
183	Localization and Characterization of Nitric Oxide Synthase in the Rat Suprachiasmatic Nucleus: Evidence for a Nitroergic Plexus in the Biological Clock. <i>Journal of Neurochemistry</i> , 2002, 68, 855-861.	2.1	29
184	Interference of the polyphenol epicatechin with the biological chemistry of nitric oxide- and peroxynitrite-mediated reactions. <i>Biochemical Pharmacology</i> , 2004, 67, 1285-1295.	2.0	29
185	Identification of imidazole asl-arginine-competitive inhibitor of porcine brain nitric oxide synthase. <i>FEBS Letters</i> , 1994, 350, 199-202.	1.3	28
186	Nitric oxide synthase in guinea pig sympathetic ganglia: Correlation with tyrosine hydroxylase and neuropeptides. <i>Histochemistry and Cell Biology</i> , 1995, 104, 21-28.	0.8	28
187	Reaction of Peroxynitrite with HEPES or MOPS Results in the Formation of Nitric Oxide Donors. <i>Free Radical Biology and Medicine</i> , 1998, 24, 859-862.	1.3	28
188	cGMP signalling beyond nitric oxide. <i>Trends in Pharmacological Sciences</i> , 2001, 22, 546-548.	4.0	28
189	Intact mitochondrial Ca ²⁺ uniport is essential for agonist-induced activation of endothelial nitric oxide synthase (eNOS). <i>Free Radical Biology and Medicine</i> , 2017, 102, 248-259.	1.3	28
190	Quantitative measurement of 5-, 12-, and 15-hydroxyeicosatetraenoic acid together with 12-hydroxyheptadecatrienoic acid by stable isotope dilution gas chromatography-negative ion chemical ionization-mass spectrometry. <i>Analytical Biochemistry</i> , 1987, 162, 337-344.	1.1	27
191	Localization of nitric oxide synthase immunoreactivity in mast cells of human nasal mucosa. <i>Histochemistry</i> , 1994, 102, 89-92.	1.9	27
192	NO-Synthase-Containing Neurons of the Pig Inferior Mesenteric Ganglion, Part of Them Innervating the Ductus deferens. <i>Cells Tissues Organs</i> , 1994, 151, 62-67.	1.3	26
193	Prenatal development of nitric oxide synthase in the mouse spinal cord. <i>Neuroscience Letters</i> , 1996, 202, 189-192.	1.0	26
194	Inefficient spin trapping of superoxide in the presence of nitric-oxide: Implications for studies on nitric-oxide synthase uncoupling. <i>Free Radical Biology and Medicine</i> , 2006, 41, 455-463.	1.3	26
195	Cardioprotective effects of 5-hydroxymethylfurfural mediated by inhibition of Ca ²⁺ currents. <i>British Journal of Pharmacology</i> , 2017, 174, 3640-3653.	2.7	26
196	Biochemistry and Molecular Pharmacology of Nitric Oxide Synthases. , 1995, , 21-42.		26
197	Immunohistochemical localization of nitric oxide synthase in rat anterior choroidal artery, stromal blood microvessels, and choroid plexus epithelial cells. <i>Cell and Tissue Research</i> , 1996, 285, 411-418.	1.5	25
198	Vascular tolerance to nitroglycerin in ascorbate deficiency. <i>Cardiovascular Research</i> , 2008, 79, 304-312.	1.8	25

#	ARTICLE	IF	CITATIONS
199	Site-Directed Mutagenesis of Aldehyde Dehydrogenase-2 Suggests Three Distinct Pathways of Nitroglycerin Biotransformation. <i>Molecular Pharmacology</i> , 2011, 80, 258-266.	1.0	25
200	Cardiac oxidative stress in a mouse model of neutral lipid storage disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1600-1608.	1.2	25
201	Endothelial dysfunction in adipose triglyceride lipase deficiency. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 906-917.	1.2	25
202	Vasoactive intestinal polypeptide and nitric oxide synthase distribution in the enteric plexuses of the human colon: an histochemical study and quantitative analysis. <i>Histochemistry</i> , 1995, 103, 415-423.	1.9	24
203	Nitric Oxide-Containing Neurons in the Bovine Gut, with Special Reference to Their Relationship with VIP and Galanin.. <i>Archives of Histology and Cytology</i> , 2000, 63, 357-368.	0.2	24
204	Synthesis and characterization of 3H-labelled tetrahydrobiopterin. <i>Biochemical Journal</i> , 1994, 304, 189-193.	1.7	23
205	NADPH-diaphorase and NOS enzymatic activities in some neurons of reptilian gut and their relationships with two neuropeptides. <i>Anatomy and Embryology</i> , 1999, 199, 397-405.	1.5	23
206	Dynamics of Carbon Monoxide Binding with Neuronal Nitric Oxide Synthase. <i>Biochemistry</i> , 1999, 38, 7210-7218.	1.2	23
207	Nitric oxide synthase-I containing cortical interneurons co-express antioxidative enzymes and anti-apoptotic Bcl-2 following focal ischemia: evidence for direct and indirect mechanisms towards their resistance to neuropathology. <i>Journal of Chemical Neuroanatomy</i> , 2001, 22, 167-184.	1.0	23
208	Suramin and the suramin analogue NF307 discriminate among calmodulin-binding sites. <i>Biochemical Journal</i> , 2001, 355, 827-833.	1.7	23
209	Real-time visualization of distinct nitric oxide generation of nitric oxide synthase isoforms in single cells. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 70, 59-67.	1.2	22
210	Rapid separation of arachidonic acid metabolites by silicic acid chromatography for subsequent quantitative analysis by gas chromatography-mass spectrometry. <i>Biomedical Applications</i> , 1986, 378, 430-436.	1.7	21
211	Cell type-specific recycling of tetrahydrobiopterin by dihydrofolate reductase explains differential effects of 7,8-dihydrobiopterin on endothelial nitric oxide synthase uncoupling. <i>Biochemical Pharmacology</i> , 2014, 90, 246-253.	2.0	21
212	Nitric oxide synthase-immunoreactive axons innervating the guinea-pig lingual artery: an ultrastructural immunohistochemical study using elastic brightfield imaging. <i>Histochemistry</i> , 1993, 99, 175-179.	1.9	20
213	Nitric Oxide/Cyclic GMP-mediated Signal Transduction. <i>Annals of the New York Academy of Sciences</i> , 1994, 733, 357-364.	1.8	20
214	NADPH-diaphorase-, Nitric Oxide Synthase- and VIP-Containing Nerve Structures in the Hen Oviduct: A Histochemical and Immunohistochemical Study.. <i>Archives of Histology and Cytology</i> , 1997, 60, 245-256.	0.2	20
215	Effects of statins on nitric oxide/cGMP signaling in human umbilical vein endothelial cells. <i>Pharmacological Reports</i> , 2010, 62, 100-112.	1.5	20
216	Identifying potential targets for prevention and treatment of amyotrophic lateral sclerosis based on a screen of medicare prescription drugs. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2020, 21, 235-245.	1.1	20

#	ARTICLE	IF	CITATIONS
217	A modified method allows for correlation between NADPH-diaphorase histochemistry and immunohistochemistry for the demonstration of neuronal nitric oxide synthase (nNOS). <i>Folia Histochemica Et Cytobiologica</i> , 1995, 33, 11-8.	0.6	20
218	Nitric oxide-induced autoinhibition of neuronal nitric oxide synthase in the presence of the autoxidation-resistant pteridine 5-methyltetrahydrobiopterin. <i>Biochemical Journal</i> , 2000, 347, 475-484.	1.7	19
219	Binding of L-Arginine and Imidazole Suggests Heterogeneity of Rat Brain Neuronal Nitric Oxide Synthase. <i>Biochemistry</i> , 2002, 41, 7819-7829.	1.2	19
220	Effects of nitroglycerin/L-cysteine on soluble guanylate cyclase: evidence for an activation/inactivation equilibrium controlled by nitric oxide binding and haem oxidation. <i>Biochemical Journal</i> , 2005, 390, 625-631.	1.7	19
221	Different effects of ascorbate deprivation and classical vascular nitrate tolerance on aldehyde dehydrogenase-catalysed bioactivation of nitroglycerin. <i>British Journal of Pharmacology</i> , 2009, 156, 1248-1255.	2.7	19
222	Tetrahydrobiopterin Protects Soluble Guanylate Cyclase against Oxidative Inactivation. <i>Molecular Pharmacology</i> , 2012, 82, 420-427.	1.0	19
223	Irreversible Activation and Stabilization of Soluble Guanylate Cyclase by the Protoporphyrin IX Mimetic Cinaciguat. <i>Molecular Pharmacology</i> , 2018, 93, 73-78.	1.0	19
224	Adenosine kinase attenuates cardiomyocyte microtubule stabilization and protects against pressure overload-induced hypertrophy and LV dysfunction. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 130, 49-58.	0.9	19
225	Hypercholesterolemia is associated with a reduced response of smooth muscle guanylyl cyclase to nitrovasodilators. <i>Arteriosclerosis and Thrombosis: A Journal of Vascular Biology</i> , 1993, 13, 1159-1163.	3.8	18
226	Distribution of mast cells in human ileocecal region. <i>Digestive Diseases and Sciences</i> , 1995, 40, 357-365.	1.1	18
227	Isoform-specific effects of salts on nitric oxide synthase activity. <i>BBA - Proteins and Proteomics</i> , 1998, 1387, 257-263.	2.1	18
228	Tetrahydrobiopterin Binding to Aromatic Amino Acid Hydroxylases. <i>Ligand Recognition and Specificity. Journal of Medicinal Chemistry</i> , 2004, 47, 5962-5971.	2.9	18
229	Bioactivation of Nitroglycerin by Ascorbate. <i>Molecular Pharmacology</i> , 2007, 72, 191-196.	1.0	18
230	Partial Purification and Characterization of a Ca ²⁺ /Calmodulin-Dependent Endothelium-Derived Relaxing Factor-Forming Enzyme from Porcine Cerebellum. <i>Journal of Cardiovascular Pharmacology</i> , 1991, 17, S46-S51.	0.8	17
231	Pharmacological Interference with Dimerization of Human Neuronal Nitric-Oxide Synthase Expressed in Adenovirus-Infected DLD-1 Cells. <i>Molecular Pharmacology</i> , 2003, 63, 682-689.	1.0	17
232	Consumption of nitric oxide by endothelial cells: Evidence for the involvement of a NAD(P)H-, flavin- and heme-dependent dioxygenase reaction. <i>FEBS Letters</i> , 2004, 577, 199-204.	1.3	17
233	Effects of flavoring compounds used in electronic cigarette refill liquids on endothelial and vascular function. <i>PLoS ONE</i> , 2019, 14, e0222152.	1.1	17
234	Comparison of neuronal and endothelial isoforms of nitric oxide synthase in stably transfected HEK 293 cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001, 281, H2053-H2061.	1.5	16

#	ARTICLE	IF	CITATIONS
235	Antioxidative and myocardial protective effects of L-arginine in oxygen radical-induced injury of isolated perfused rat hearts. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2002, 365, 269-276.	1.4	16
236	Two Modes of Binding of N-Hydroxyguanidines to NO Synthases: First Evidence for the Formation of Iron ^{II} -N-Hydroxyguanidine Complexes and Key Role of Tetrahydrobiopterin in Determining the Binding Mode. <i>Biochemistry</i> , 2003, 42, 3858-3867.	1.2	16
237	Bioactivation of Pentaerythrityl Tetranitrate by Mitochondrial Aldehyde Dehydrogenase. <i>Molecular Pharmacology</i> , 2011, 79, 541-548.	1.0	16
238	Selective Irreversible Inhibition of Neuronal and Inducible Nitric-oxide Synthase in the Combined Presence of Hydrogen Sulfide and Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2015, 290, 24932-24944.	1.6	16
239	Neuroepithelial endocrine and nervous system in the respiratory tract of <i>Cynops pyrrhogaster</i> with special reference to the distribution of nitric oxide synthase and serotonin. <i>Microscopy Research and Technique</i> , 1994, 29, 79-89.	1.2	15
240	Nitric oxide synthase-containing nerve fibres and neurones in the gall bladder and biliary pathways of the guinea-pig. <i>NeuroReport</i> , 1994, 5, 837-840.	0.6	15
241	Different nitric oxide synthase inhibitors cause rapid and differential alterations in the ligand-binding capacity of transmitter receptors in the rat cerebral cortex. <i>Annals of Anatomy</i> , 1999, 181, 345-351.	1.0	15
242	Inhibition of purified soluble guanylyl cyclase by γ -ascorbic acid. <i>Cardiovascular Research</i> , 2000, 47, 602-608.	1.8	15
243	Nitric oxide synthase in the spinal cord of the frog, <i>Xenopus laevis</i> . <i>Cell and Tissue Research</i> , 2001, 305, 457-462.	1.5	15
244	Bioactivation of Nitroglycerin - A New Piece in the Puzzle. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 388-391.	7.2	15
245	Tetrahydrobiopterin as Combined Electron/Proton Donor in Nitric Oxide Biosynthesis: Cryogenic UV-Vis and EPR Detection of Reaction Intermediates. <i>Methods in Enzymology</i> , 2005, 396, 456-466.	0.4	15
246	Aerobic nitric oxide-induced thiol nitrosation in the presence and absence of magnesium cations. <i>Free Radical Biology and Medicine</i> , 2014, 76, 286-298.	1.3	15
247	Hydrogen sulfide inhibits endothelial nitric oxide formation and receptor ligand-mediated Ca ²⁺ release in endothelial and smooth muscle cells. <i>Pharmacological Reports</i> , 2016, 68, 37-43.	1.5	15
248	The versatile and complex enzymology of nitric oxide synthase. <i>Biochemistry (Moscow)</i> , 1998, 63, 734-43.	0.7	15
249	Nitric oxide synthase immunoreactivity in the human ileocecal region. <i>Neuroscience Letters</i> , 1994, 170, 261-265.	1.0	14
250	Regional distribution and characterization of nitric oxide synthase activity in the brain of the common marmoset. <i>NeuroReport</i> , 1995, 6, 1141-1145.	0.6	14
251	Large-scale purification of rat brain nitric oxide synthase from baculovirus overexpression system. <i>Methods in Enzymology</i> , 1996, 268, 420-427.	0.4	14
252	Determination of NO with a Clark-Type Electrode. , 1998, 100, 101-110.		14

#	ARTICLE	IF	CITATIONS
253	Histochemical and Immunocytochemical Study of Nitroergic Innervation in Human Nasal Mucosa. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 1999, 108, 869-875.	0.6	14
254	Innervation of the fibro-elastic type of the penis: an immunohistochemical study in the male pig. <i>Acta Histochemica</i> , 1999, 101, 71-101.	0.9	14
255	Novel mode of nitric oxide neurotransmission mediated via S-nitroso-cysteinyl-glycine. <i>European Journal of Neuroscience</i> , 2000, 12, 3919-3925.	1.2	14
256	Formation of Transient Oxygen Complexes of Cytochrome P450 BM3 and Nitric Oxide Synthase under High Pressure. <i>Biophysical Journal</i> , 2003, 85, 3303-3309.	0.2	14
257	Nitric oxide producing neurons in the human colon: an immunohistochemical and histoenzymatical study. <i>Neuroscience Letters</i> , 1995, 193, 17-20.	1.0	13
258	Pentamidine does not interfere with nitrite formation in activated RAW 264.7 macrophages but inhibits constitutive brain nitric oxide synthase. <i>Life Sciences</i> , 1995, 57, 1973-1980.	2.0	13
259	A Synthetic Peptide Corresponding to the Putative Dihydrofolate Reductase Domain of Nitric Oxide Synthase Inhibits Uncoupled NADPH Oxidation. <i>Nitric Oxide - Biology and Chemistry</i> , 1997, 1, 50-55.	1.2	13
260	Lack of involvement of extracellular signal-regulated kinase (ERK) in the agonist-induced endothelial nitric oxide synthesis. <i>Biochemical Pharmacology</i> , 2002, 63, 1137-1142.	2.0	13
261	Oxidized low-density lipoprotein antagonizes the activation of purified soluble guanylate cyclase by endothelium-derived relaxing factor but does not interfere with its biosynthesis. <i>Cellular Signalling</i> , 1991, 3, 361-367.	1.7	12
262	Stimulation of Soluble Guanylate Cyclase by Endothelium-Derived Relaxing Factor Is Antagonized by Oxidized Low-Density Lipoprotein. <i>Journal of Cardiovascular Pharmacology</i> , 1991, 17, S83-S88.	0.8	12
263	Distribution of nitric oxide synthase-immunoreactive neurons in the submucosal plexus of the porcine small intestine. <i>Annals of Anatomy</i> , 1993, 175, 225-230.	1.0	12
264	Localization of nitric oxide synthase in enteric neurons of the porcine and human ileocaecal junction. <i>Annals of Anatomy</i> , 1994, 176, 131-135.	1.0	12
265	Inhibition of purified soluble guanylyl cyclase by copper ions. <i>Biochemical Pharmacology</i> , 1996, 52, 1041-1045.	2.0	12
266	Nitric oxide-induced autoinhibition of neuronal nitric oxide synthase in the presence of the autoxidation-resistant pteridine 5-methyltetrahydrobiopterin. <i>Biochemical Journal</i> , 2000, 347, 475.	1.7	12
267	Contrasting effects of N5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase. <i>Biochemical Journal</i> , 2000, 348, 579-583.	1.7	12
268	Use of high pressure to study elementary steps in P450 and nitric oxide synthase. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 191-195.	1.5	12
269	Evidence against tetrahydrobiopterin depletion of vascular tissue exposed to nitric oxide/superoxide or nitroglycerin. <i>Free Radical Biology and Medicine</i> , 2010, 48, 145-152.	1.3	12
270	Nitric Oxide Synthase Expression in the Opossum Superior Colliculus: A Histochemical, Immunohistochemical and Biochemical Study. <i>Brain, Behavior and Evolution</i> , 1999, 54, 303-313.	0.9	11

#	ARTICLE	IF	CITATIONS
271	Neuroendocrine characteristics of human Leydig cell tumours. <i>Andrologia</i> , 2009, 27, 351-355.	1.0	11
272	Tolerance to nitroglycerin through proteasomal down-regulation of aldehyde dehydrogenase ² in a genetic mouse model of ascorbate deficiency. <i>British Journal of Pharmacology</i> , 2013, 168, 1868-1877.	2.7	11
273	Aldehyde dehydrogenase-independent bioactivation of nitroglycerin in porcine and bovine blood vessels. <i>Biochemical Pharmacology</i> , 2015, 93, 440-448.	2.0	11
274	Characterization of soluble platelet guanylyl cyclase with peptide antibodies. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1992, 346, 537-41.	1.4	10
275	Why Tetrahydrobiopterin?. <i>Advances in Pharmacology</i> , 1995, 34, 251-261.	1.2	10
276	Redox Role for Tetrahydrobiopterin in Nitric Oxide Synthase Catalysis: Low-Temperature Optical Absorption Spectral Detection. <i>Methods in Enzymology</i> , 2002, 353, 114-121.	0.4	10
277	Interaction between Neuronal Nitric-Oxide Synthase and Tetrahydrobiopterin Revisited: Studies on the Nature and Mechanism of Tight Pterin Binding. <i>Biochemistry</i> , 2014, 53, 1284-1295.	1.2	10
278	CO exchange of the oxyferrous complexes of endothelial nitric-oxide synthase oxygenase domain in the presence of 4-amino-tetrahydrobiopterin. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1217-1222.	1.5	9
279	Neither nitrite nor nitric oxide mediate toxic effects of nitroglycerin on mitochondria. <i>Journal of Biochemical and Molecular Toxicology</i> , 2011, 25, 297-302.	1.4	9
280	Scavenging of nitric oxide by hemoglobin in the tunica media of porcine coronary arteries. <i>Nitric Oxide - Biology and Chemistry</i> , 2016, 54, 8-14.	1.2	9
281	Determination of prostaglandin F ₂ ± and 6-oxo-prostaglandin F ₁ ± in urine by gas chromatography- ³ positive chemical ionisation-mass spectrometry using stable isotope dilutions with selected ion monitoring. <i>Biomedical Applications</i> , 1983, 273, 161-165.	1.7	8
282	Structural and functional analogs of CuZn superoxide dismutase inhibit rat brain nitric oxide synthase by interference with the reductase (diaphorase) domain. <i>Neuroscience Letters</i> , 1996, 209, 169-172.	1.0	8
283	Purification of Brain Nitric Oxide Synthase from Baculovirus Overexpression System and Determination of Cofactors. <i>Methods in Neurosciences</i> , 1996, , 130-139.	0.5	8
284	Inhibition of endotoxin-induced vascular hyporeactivity by 4-amino-tetrahydrobiopterin. <i>British Journal of Pharmacology</i> , 2000, 131, 1757-1765.	2.7	8
285	Gibbs energies of reactive species involved in peroxyxynitrite chemistry calculated by density functional theory. <i>Computational and Theoretical Chemistry</i> , 2003, 623, 95-103.	1.5	8
286	Reactive complexes in myoglobin and nitric oxide synthase. <i>Inorganica Chimica Acta</i> , 2008, 361, 831-843.	1.2	8
287	The Bell-shaped Curve for Peroxyxynitrite-mediated Oxidation and Nitration of NO/O ₂ ±. Is Alive and Well. <i>Journal of Biological Chemistry</i> , 2010, 285, 1e15.	1.6	8
288	Role of the ubiquitin- ⁴ proteasome system in cardiac dysfunction of adipose triglyceride lipase-deficient mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 11-19.	0.9	8

#	ARTICLE	IF	CITATIONS
289	Nitric oxide synthases catalyze superoxide formation. <i>FEBS Letters</i> , 2000, 481, 304-304.	1.3	7
290	Desensitization of endothelial nitric oxide synthase by receptor agonists. <i>Biochemical Journal</i> , 2002, 364, 863-868.	1.7	7
291	Human Second Window Pre-Conditioning and Post-Conditioning by Nitrite Is Influenced by a Common Polymorphism in Mitochondrial Aldehyde Dehydrogenase. <i>JACC Basic To Translational Science</i> , 2017, 2, 13-21.	1.9	7
292	Sustained Formation of Nitroglycerin-Derived Nitric Oxide by Aldehyde Dehydrogenase-2 in Vascular Smooth Muscle without Added Reductants: Implications for the Development of Nitrate Tolerance. <i>Molecular Pharmacology</i> , 2018, 93, 335-343.	1.0	7
293	S-nitrosoglutathione inhibits adipogenesis in 3T3-L1 preadipocytes by S-nitrosation of CCAAT/enhancer-binding protein I ² . <i>Scientific Reports</i> , 2019, 9, 15403.	1.6	7
294	Characterization of the Inducible and Slow-Releasing Hydrogen Sulfide and Persulfide Donor P [*] : Insights into Hydrogen Sulfide Signaling. <i>Antioxidants</i> , 2021, 10, 1049.	2.2	7
295	Substance P and nitric oxide: Participation in airway innervation. <i>Regulatory Peptides</i> , 1992, 37, S92.	1.9	6
296	Occurrence of enzymes of free radical metabolism suggests the possible cytotoxic capacity of the transitional epithelium of the human ureter. <i>Cell and Tissue Research</i> , 1997, 287, 351-356.	1.5	6
297	High-pressure studies of the reaction mechanism of nitric-oxide synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 578-585.	1.1	6
298	Translocation of endothelial nitric oxide synthase: Another feat of amlodipine, a cardiovascular jack-of-all-trades. <i>Cardiovascular Research</i> , 2006, 71, 411-413.	1.8	6
299	Potent Inhibition of Aldehyde Dehydrogenase-2 by Diphenyleneiodonium: Focus on Nitroglycerin Bioactivation. <i>Molecular Pharmacology</i> , 2013, 84, 407-414.	1.0	6
300	Modulation of nitric oxide-stimulated soluble guanylyl cyclase activity by cytoskeleton-associated proteins in vascular smooth muscle. <i>Biochemical Pharmacology</i> , 2018, 156, 168-176.	2.0	6
301	[35] Preparation of soluble guanylyl cyclase from bovine lung by immunoaffinity chromatography. <i>Methods in Enzymology</i> , 1991, 195, 384-391.	0.4	5
302	Inhibitory effects of aclarubicin on nitric oxide production in aortic smooth muscle cells and macrophages. <i>Biochemical Pharmacology</i> , 2000, 59, 719-726.	2.0	5
303	Acrolein exposure from electronic cigarettes. <i>European Heart Journal</i> , 2020, 41, 1523-1523.	1.0	5
304	Nitric oxide synthase in the rat carotid body and carotid sinus. <i>Cell and Tissue Research</i> , 1994, 276, 559-564.	1.5	5
305	Species-independent expression of nitric oxide synthase in the sarcolemma region of visceral and somatic striated muscle fibers. <i>Cell and Tissue Research</i> , 1995, 281, 493-499.	1.5	5
306	Assay of Tissue Activity of Nitric Oxide Synthase. <i>Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]</i> , 1999, 00, Unit 10.2.	1.1	4

#	ARTICLE	IF	CITATIONS
307	Direct coupling of fused silica columns to the ion source of a mass spectrometer applied to studies of arachidonic acid metabolism in human fibroblasts. <i>Biomedical Applications</i> , 1983, 273, 166-171.	1.7	3
308	Formation of 6,15-diketoprostaglandin F _{11±} from prostaglandin G ₂ by bovine aortic endothelial cells. <i>Lipids and Lipid Metabolism</i> , 1987, 918, 209-216.	2.6	3
309	Biosynthesis of Nitric Oxide. , 1995, , 37-48.		3
310	Activation of endothelial nitric oxide synthase by the pro-apoptotic drug embelin: Striking discrepancy between nitric oxide-mediated cyclic GMP accumulation and l-citrulline formation. <i>Nitric Oxide - Biology and Chemistry</i> , 2010, 22, 281-289.	1.2	3
311	6R-[3H]Tetrahydrobiopterin Binding Activities in Rat Brain. <i>Advances in Experimental Medicine and Biology</i> , 1993, 338, 301-304.	0.8	3
312	Protein tyrosine nitration and peroxynitrite: Reply. <i>FASEB Journal</i> , 2002, 16, 1854-1854.	0.2	2
313	Thermodynamic analysis of l-arginine and N ^ω -hydroxy-l-arginine binding to nitric oxide synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 806-810.	1.1	2
314	Contrasting effects of N5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase. <i>Biochemical Journal</i> , 2000, 348, 579.	1.7	2
315	Selective activation of organic nitrates by, and inactivation of, ALDH isoforms. <i>FASEB Journal</i> , 2009, 23, LB374.	0.2	2
316	Contrasting effects of N5-substituted tetrahydrobiopterin derivatives on phenylalanine hydroxylase, dihydropteridine reductase and nitric oxide synthase. <i>Biochemical Journal</i> , 2000, 348 Pt 3, 579-83.	1.7	2
317	Arachidonic acid metabolism in human skin fibroblast cultures. <i>Fresenius Zeitschrift FÄ¼r Analytische Chemie</i> , 1984, 317, 740-741.	0.7	1
318	Current Knowledge on Pteridine Dependence of Nitric Oxide Synthase. <i>Pteridines</i> , 1991, 3, 49-50.	0.5	1
319	Bioaktivierung von Nitroglycerin â€“ ein neues StÄ¼ck im Puzzle. <i>Angewandte Chemie</i> , 2003, 115, 402-405.	1.6	1
320	Vascular tolerance to nitroglycerin in ascorbate deficiency: results are in favour of an important role of oxidative stress in nitrate tolerance: reply. <i>Cardiovascular Research</i> , 2008, 79, 724-724.	1.8	1
321	Tetrahydrobiopterin protects soluble guanylate cyclase against oxidative inactivation. <i>Pteridines</i> , 2013, 24, 47-50.	0.5	1
322	Enzymology of Nitric Oxide Biosynthesis. , 2002, , 57-76.		0
323	Bioactivation of Nitroglycerin â€” A New Piece in the Puzzle. <i>ChemInform</i> , 2003, 34, no.	0.1	0
324	Role of the general base Glu268 in nitroglycerin bioactivation and mechanism-based superoxide formation by aldehyde dehydrogenase-2. <i>BMC Pharmacology</i> , 2009, 9, .	0.4	0

#	ARTICLE	IF	CITATIONS
325	Potent inhibition of nitroglycerin bioactivation by diphenyleiodonium (DIP). BMC Pharmacology & Toxicology, 2013, 14, .	1.0	0
326	L-Ascorbic Acid Increases Intracellular Tetrahydrobiopterin Via A Chemical Stabilization and Potentiates Nitric Oxide Synthesis in Endothelial Cells. , 2002, , 265-270.		0
327	Biosynthesis of Nitric Oxide: An Overview. Update in Intensive Care and Emergency Medicine, 1995, , 3-13.	0.6	0
328	Inhibition of Nitric Oxide Synthases by the 4-Amino Analogue of Tetrahydrobiopterin. , 1999, , 261-271.		0
329	Nitric Oxide and Guanylyl Cyclases: Correlation with Neuropeptides. , 2017, , 641-652.		0