

# Mark J Crabtree

## List of Publications by Year in descending order

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58  
papers

3,493  
citations

147566

31  
h-index

161609

54  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4964  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atrial nitroso-redox balance and refractoriness following on-pump cardiac surgery: a randomized trial of atorvastatin. <i>Cardiovascular Research</i> , 2022, 118, 184-195.	1.8	9
2	Hepatic miR-144 Drives Fumarase Activity Preventing NRF2 Activation During Obesity. <i>Gastroenterology</i> , 2021, 161, 1982-1997.e11.	0.6	34
3	Hyperglycemia Induces Trained Immunity in Macrophages and Their Precursors and Promotes Atherosclerosis. <i>Circulation</i> , 2021, 144, 961-982.	1.6	109
4	Endothelial GTPCH (GTP Cyclohydrolase 1) and Tetrahydrobiopterin Regulate Gestational Blood Pressure, Uteroplacental Remodeling, and Fetal Growth. <i>Hypertension</i> , 2021, 78, 1871-1884.	1.3	10
5	Itaconate as an inflammatory mediator and therapeutic target in cardiovascular medicine. <i>Biochemical Society Transactions</i> , 2021, 49, 2189-2198.	1.6	7
6	Nitric oxide modulates cardiomyocyte pH control through a biphasic effect on sodium/hydrogen exchanger-1. <i>Cardiovascular Research</i> , 2020, 116, 1958-1971.	1.8	16
7	Isolation and culture of murine bone marrow-derived macrophages for nitric oxide and redox biology. <i>Nitric Oxide - Biology and Chemistry</i> , 2020, 100-101, 17-29.	1.2	37
8	Nitric Oxide Modulates Metabolic Remodeling in Inflammatory Macrophages through TCA Cycle Regulation and Itaconate Accumulation. <i>Cell Reports</i> , 2019, 28, 218-230.e7.	2.9	149
9	Oxidation resistance 1 regulates post-translational modifications of peroxiredoxin 2 in the cerebellum. <i>Free Radical Biology and Medicine</i> , 2019, 130, 151-162.	1.3	23
10	Roles for endothelial cell and macrophage Gch1 and tetrahydrobiopterin in atherosclerosis progression. <i>Cardiovascular Research</i> , 2018, 114, 1385-1399.	1.8	38
11	Effects Of Endothelin-1 On Intracellular Tetrahydrobiopterin Levels In Vascular Tissue. <i>Scandinavian Cardiovascular Journal</i> , 2018, 52, 163-169.	0.4	4
12	Regulation of mycobacterial infection by macrophage Gch1 and tetrahydrobiopterin. <i>Nature Communications</i> , 2018, 9, 5409.	5.8	24
13	Tetrahydrobiopterin modulates ubiquitin conjugation to UBC13/UBE2N and proteasome activity by S-nitrosation. <i>Scientific Reports</i> , 2018, 8, 14310.	1.6	5
14	A key role for tetrahydrobiopterin-dependent endothelial NOS regulation in resistance arteries: studies in endothelial cell tetrahydrobiopterin-deficient mice. <i>British Journal of Pharmacology</i> , 2017, 174, 657-671.	2.7	37
15	A novel role for endothelial tetrahydrobiopterin in mitochondrial redox balance. <i>Free Radical Biology and Medicine</i> , 2017, 104, 214-225.	1.3	49
16	Protection against ventricular fibrillation via cholinergic receptor stimulation and the generation of nitric oxide. <i>Journal of Physiology</i> , 2016, 594, 3981-3992.	1.3	25
17	Mildly compromised tetrahydrobiopterin cofactor biosynthesis due to <i>Pts</i> variants leads to unusual body fat distribution and abdominal obesity in mice. <i>Journal of Inherited Metabolic Disease</i> , 2016, 39, 309-319.	1.7	10
18	A requirement for Gch1 and tetrahydrobiopterin in embryonic development. <i>Developmental Biology</i> , 2015, 399, 129-138.	0.9	30

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19	Regulation of iNOS function and cellular redox state by macrophage Gch1 reveals specific requirements for tetrahydrobiopterin in NRF2 activation. <i>Free Radical Biology and Medicine</i> , 2015, 79, 206-216.	1.3	115
20	Parkinson's disease in GTP cyclohydrolase 1 mutation carriers. <i>Brain</i> , 2015, 138, e348-e348.	3.7	4
21	CAPON Modulates Neuronal Calcium Handling and Cardiac Sympathetic Neurotransmission During Dysautonomia in Hypertension. <i>Hypertension</i> , 2015, 65, 1288-1297.	1.3	21
22	Molecular mechanisms of myocardial nitroso-redox imbalance during on-pump cardiac surgery. <i>Lancet, The</i> , 2015, 385, S49.	6.3	7
23	Overexpression of GTP Cyclohydrolase 1 Feedback Regulatory Protein Is Protective in a Murine Model of Septic Shock. <i>Shock</i> , 2014, 42, 432-439.	1.0	11
24	Endothelial Cell-Specific Reactive Oxygen Species Production Increases Susceptibility to Aortic Dissection. <i>Circulation</i> , 2014, 129, 2661-2672.	1.6	96
25	Î±-Synuclein and mitochondrial bioenergetics regulate tetrahydrobiopterin levels in a human dopaminergic model of Parkinson disease. <i>Free Radical Biology and Medicine</i> , 2014, 67, 58-68.	1.3	26
26	Cell-Autonomous Role of Endothelial GTP Cyclohydrolase 1 and Tetrahydrobiopterin in Blood Pressure Regulation. <i>Hypertension</i> , 2014, 64, 530-540.	1.3	50
27	Tetrahydrobiopterin in Cardiovascular Health and Disease. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 3040-3077.	2.5	181
28	Abstract 167: A Cell-Autonomous Role for Endothelial GTP Cyclohydrolase 1 and Tetrahydrobiopterin in Blood Pressure Regulation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014, 34, .	1.1	0
29	Abstract 13082: On-Pump Cardiac Surgery in Humans Induces Myocardial Nitric Oxide Synthase Dysfunction via S-Glutathionylation of eNOS. <i>Circulation</i> , 2014, 130, .	1.6	0
30	Nitric Oxide Synthases in Heart Failure. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1078-1099.	2.5	137
31	Integrated Redox Sensor and Effector Functions for Tetrahydrobiopterin- and Glutathionylation-dependent Endothelial Nitric-oxide Synthase Uncoupling. <i>Journal of Biological Chemistry</i> , 2013, 288, 561-569.	1.6	75
32	Endothelial cell repopulation after stenting determines in-stent neointima formation: effects of bare-metal vs. drug-eluting stents and genetic endothelial cell modification. <i>European Heart Journal</i> , 2013, 34, 3378-3388.	1.0	58
33	A Pivotal Role for Tryptophan 447 in Enzymatic Coupling of Human Endothelial Nitric Oxide Synthase (eNOS). <i>Journal of Biological Chemistry</i> , 2013, 288, 29836-29845.	1.6	20
34	Gene Delivery Strategies Targeting Stable Atheromatous Plaque. <i>Current Pharmaceutical Design</i> , 2013, 19, 1626-1637.	0.9	4
35	Regulation of Endothelial Nitric-oxide Synthase (NOS) S-Glutathionylation by Neuronal NOS. <i>Journal of Biological Chemistry</i> , 2012, 287, 43665-43673.	1.6	42
36	Cardiomyocyte GTP Cyclohydrolase 1 and Tetrahydrobiopterin Increase NOS1 Activity and Accelerate Myocardial Relaxation. <i>Circulation Research</i> , 2012, 111, 718-727.	2.0	38

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37	Systemic and Vascular Oxidation Limits the Efficacy of Oral Tetrahydrobiopterin Treatment in Patients With Coronary Artery Disease. <i>Circulation</i> , 2012, 125, 1356-1366.	1.6	144
38	Endothelial-specific Nox2 overexpression increases vascular superoxide and macrophage recruitment in ApoE $\alpha^{\sim}$ / $\alpha^{\sim}$ mice. <i>Cardiovascular Research</i> , 2012, 94, 20-29.	1.8	93
39	Recoupling the Cardiac Nitric Oxide Synthases: Tetrahydrobiopterin Synthesis and Recycling. <i>Current Heart Failure Reports</i> , 2012, 9, 200-210.	1.3	107
40	Synthesis and recycling of tetrahydrobiopterin in endothelial function and vascular disease. <i>Nitric Oxide - Biology and Chemistry</i> , 2011, 25, 81-88.	1.2	180
41	Gene Therapy Targeting Inflammation in Atherosclerosis. <i>Current Pharmaceutical Design</i> , 2011, 17, 4210-4223.	0.9	42
42	Dihydrofolate reductase protects endothelial nitric oxide synthase from uncoupling in tetrahydrobiopterin deficiency. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1639-1646.	1.3	93
43	Targeting Vascular Redox Biology Through Antioxidant Gene Delivery: A Historical View and Current Perspectives. <i>Recent Patents on Cardiovascular Drug Discovery</i> , 2011, 6, 89-102.	1.5	6
44	Tetrahydrobiopterin supplementation reduces atherosclerosis and vascular inflammation in apolipoprotein E-knockout mice. <i>Clinical Science</i> , 2010, 119, 131-142.	1.8	37
45	GTP Cyclohydrolase I Expression, Protein, and Activity Determine Intracellular Tetrahydrobiopterin Levels, Independent of GTP Cyclohydrolase Feedback Regulatory Protein Expression. <i>Journal of Biological Chemistry</i> , 2009, 284, 13660-13668.	1.6	54
46	Quantitative Regulation of Intracellular Endothelial Nitric-oxide Synthase (eNOS) Coupling by Both Tetrahydrobiopterin-eNOS Stoichiometry and Biopterin Redox Status. <i>Journal of Biological Chemistry</i> , 2009, 284, 1136-1144.	1.6	171
47	Critical Role for Tetrahydrobiopterin Recycling by Dihydrofolate Reductase in Regulation of Endothelial Nitric-oxide Synthase Coupling. <i>Journal of Biological Chemistry</i> , 2009, 284, 28128-28136.	1.6	184
48	Dihydrofolate reductase and biopterin recycling in cardiovascular disease. <i>Journal of Molecular and Cellular Cardiology</i> , 2009, 47, 749-751.	0.9	10
49	Ratio of 5,6,7,8-tetrahydrobiopterin to 7,8-dihydrobiopterin in endothelial cells determines glucose-elicited changes in NO vs. superoxide production by eNOS. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 294, H1530-H1540.	1.5	176
50	Profound biopterin oxidation and protein tyrosine nitration in tissues of ApoE-null mice on an atherogenic diet: contribution of inducible nitric oxide synthase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H2878-H2887.	1.5	32
51	Altered Plasma Versus Vascular Biopterins in Human Atherosclerosis Reveal Relationships Between Endothelial Nitric Oxide Synthase Coupling, Endothelial Function, and Inflammation. <i>Circulation</i> , 2007, 116, 2851-2859.	1.6	138
52	Nitrosative Stress and Myocardial Sarcoplasmic Endoreticular Calcium Adenosine Triphosphatase Subtype 2a Activity after Lung Resection in Swine. <i>Anesthesiology</i> , 2007, 107, 954-962.	1.3	13
53	Contribution of inducible nitric oxide synthase to protein tyrosine nitration and biopterin oxidation in ApoE $\alpha^{\sim}$ null mice. <i>FASEB Journal</i> , 2007, 21, A1146.	0.2	0
54	Systemic oxidative stress associated with lung resection during single lung ventilation. <i>European Journal of Cardio-thoracic Surgery</i> , 2006, 30, 568-569.	0.6	4

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55	Prevention and Reversal of Premature Endothelial Cell Senescence and Vasculopathy in Obesity-Induced Diabetes by Ebselen. <i>Circulation Research</i> , 2004, 94, 377-384.	2.0	195
56	Nephropathy in Zucker Diabetic Fat Rat Is Associated with Oxidative and Nitrosative Stress: Prevention by Chronic Therapy with a Peroxynitrite Scavenger Ebselen. <i>Journal of the American Society of Nephrology: JASN</i> , 2004, 15, 2391-2403.	3.0	166
57	Involvement of mitochondria in acetaminophen-induced apoptosis and hepatic injury. <i>Toxicology and Applied Pharmacology</i> , 2003, 191, 118-129.	1.3	141
58	Detection of Cysteine S-Nitrosylation and Tyrosine 3-Nitration in Kidney Proteins. , 2003, 86, 373-384.		6