

Robert K Naviaux

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/398331/publications.pdf>

Version: 2024-02-01

86
papers

6,032
citations

81900

39
h-index

74163

75
g-index

91
all docs

91
docs citations

91
times ranked

8463
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomics Reveals Signature of Mitochondrial Dysfunction in Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 1901-1912.	6.1	454
2	<i>POLG</i> mutations associated with Alpers' syndrome and mitochondrial DNA depletion. <i>Annals of Neurology</i> , 2004, 55, 706-712.	5.3	434
3	The in-depth evaluation of suspected mitochondrial disease. <i>Molecular Genetics and Metabolism</i> , 2008, 94, 16-37.	1.1	320
4	Metabolic features of chronic fatigue syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5472-80.	7.1	277
5	ERR β Directs and Maintains the Transition to Oxidative Metabolism in the Postnatal Heart. <i>Cell Metabolism</i> , 2007, 6, 13-24.	16.2	274
6	Molecular and clinical genetics of mitochondrial diseases due to <i>POLG</i> mutations. <i>Human Mutation</i> , 2008, 29, E150-E172.	2.5	256
7	Alpers-Huttenlocher Syndrome. <i>Pediatric Neurology</i> , 2013, 48, 167-178.	2.1	203
8	Antipurinergic therapy corrects the autism-like features in the Fragile X (<i>Fmr1</i> knockout) mouse model. <i>Molecular Autism</i> , 2015, 6, 1.	4.9	194
9	Mitochondrial DNA polymerase γ deficiency and mtDNA depletion in a child with Alpers' syndrome. <i>Annals of Neurology</i> , 1999, 45, 54-58.	5.3	192
10	Regulation of lipid accumulation by AMP-activated kinase in high fat diet-induced kidney injury. <i>Kidney International</i> , 2014, 85, 611-623.	5.2	188
11	The GAAS Metagenomic Tool and Its Estimations of Viral and Microbial Average Genome Size in Four Major Biomes. <i>PLoS Computational Biology</i> , 2009, 5, e1000593.	3.2	177
12	Metabolic features of the cell danger response. <i>Mitochondrion</i> , 2014, 16, 7-17.	3.4	167
13	Autism Associated With the Mitochondrial DNA G8363A Transfer RNA ^{Lys} Mutation. <i>Journal of Child Neurology</i> , 2000, 15, 357-361.	1.4	153
14	Antipurinergic Therapy Corrects the Autism-Like Features in the Poly(IC) Mouse Model. <i>PLoS ONE</i> , 2013, 8, e57380.	2.5	147
15	<i>POLG</i> DNA testing as an emerging standard of care before instituting valproic acid therapy for pediatric seizure disorders. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2010, 19, 140-146.	2.0	136
16	Comprehensive Nutritional and Dietary Intervention for Autism Spectrum Disorder—A Randomized, Controlled 12-Month Trial. <i>Nutrients</i> , 2018, 10, 369.	4.1	126
17	Molecular diagnosis of Alpers syndrome. <i>Journal of Hepatology</i> , 2006, 45, 108-116.	3.7	123
18	Monitoring phosphorylation of the pyruvate dehydrogenase complex. <i>Analytical Biochemistry</i> , 2009, 389, 157-164.	2.4	122

#	ARTICLE	IF	CITATIONS
19	Oxidative Shielding or Oxidative Stress?. Journal of Pharmacology and Experimental Therapeutics, 2012, 342, 608-618.	2.5	121
20	AMPD2 Regulates GTP Synthesis and Is Mutated in a Potentially Treatable Neurodegenerative Brainstem Disorder. Cell, 2013, 154, 505-517.	28.9	94
21	Low-dose suramin in autism spectrum disorder: a small, phase I/II, randomized clinical trial. Annals of Clinical and Translational Neurology, 2017, 4, 491-505.	3.7	84
22	Epigenome-wide meta-analysis of PTSD across 10 military and civilian cohorts identifies methylation changes in AHRR. Nature Communications, 2020, 11, 5965.	12.8	84
23	Cytokine Gene Therapy with Interleukin-2-Transduced Fibroblasts: Effects of IL-2 Dose on Anti-Tumor Immunity. Human Gene Therapy, 1995, 6, 591-601.	2.7	82
24	Polymerase gamma disease through the ages. Developmental Disabilities Research Reviews, 2010, 16, 163-174.	2.9	70
25	Retained features of embryonic metabolism in the adult MRL mouse. Molecular Genetics and Metabolism, 2009, 96, 133-144.	1.1	69
26	Developing a systematic approach to the diagnosis and classification of mitochondrial disease. Mitochondrion, 2004, 4, 351-361.	3.4	59
27	Nerve conduction changes in patients with mitochondrial diseases treated with dichloroacetate. Muscle and Nerve, 2001, 24, 916-924.	2.2	55
28	Chronic treatment of mitochondrial disease patients with dichloroacetate. Molecular Genetics and Metabolism, 2004, 83, 138-149.	1.1	53
29	Mitochondrial control of epigenetics. Cancer Biology and Therapy, 2008, 7, 1191-1193.	3.4	53
30	A model-driven quantitative metabolomics analysis of aerobic and anaerobic metabolism in <i>E. coli</i> MG1655 that is biochemically and thermodynamically consistent. Biotechnology and Bioengineering, 2014, 111, 803-815.	3.3	53
31	Defects in maintenance of mitochondrial DNA are associated with intramitochondrial nucleotide imbalances. Human Molecular Genetics, 2007, 16, 1400-1411.	2.9	50
32	Neurometabolic Disorders: Potentially Treatable Abnormalities in Patients With Treatment-Refractory Depression and Suicidal Behavior. American Journal of Psychiatry, 2017, 174, 42-50.	7.2	50
33	POLG mutations associated with Alpers syndrome and mitochondrial DNA depletion. Annals of Neurology, 2005, 58, 491-491.	5.3	49
34	Mitochondrial DNA disorders. European Journal of Pediatrics, 2000, 159, S219-S226.	2.7	48
35	Mitochondrial and ion channel gene alterations in autism. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 1796-1802.	1.0	47
36	High-fat diet and FGF21 cooperatively promote aerobic thermogenesis in mtDNA mutator mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8714-8719.	7.1	47

#	ARTICLE	IF	CITATIONS
37	Role of Reactive Oxygen Species in Hyperadrenergic Hypertension. <i>Circulation: Cardiovascular Genetics</i> , 2010, 3, 414-425.	5.1	42
38	A robust, single-injection method for targeted, broad-spectrum plasma metabolomics. <i>Metabolomics</i> , 2017, 13, 122.	3.0	42
39	Improved Dried Blood Spot-Based Metabolomics: A Targeted, Broad-Spectrum, Single-Injection Method. <i>Metabolites</i> , 2020, 10, 82.	2.9	42
40	Metabolic features and regulation of the healing cycle—A new model for chronic disease pathogenesis and treatment. <i>Mitochondrion</i> , 2019, 46, 278-297.	3.4	41
41	Human Herpesvirus-6 Reactivation, Mitochondrial Fragmentation, and the Coordination of Antiviral and Metabolic Phenotypes in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome. <i>ImmunoHorizons</i> , 2020, 4, 201-215.	1.8	39
42	Mono-allelic POLG expression resulting from nonsense-mediated decay and alternative splicing in a patient with Alpers syndrome. <i>DNA Repair</i> , 2005, 4, 1381-1389.	2.8	38
43	Restoration of Growth Arrest by p16INK4, p21WAF1, pRB, and p53 Is Dependent on the Integrity of the Endogenous Cell-Cycle Control Pathways in Human Glioblastoma Cell Lines. <i>Experimental Cell Research</i> , 1998, 238, 51-62.	2.6	37
44	Retroviral vectors for persistent expression in vivo. <i>Current Opinion in Biotechnology</i> , 1992, 3, 540-547.	6.6	32
45	Mitochondrial Correlation Microscopy and Nanolaser Spectroscopy — New Tools for Biophotonic Detection of Cancer in Single Cells. <i>Technology in Cancer Research and Treatment</i> , 2005, 4, 585-592.	1.9	30
46	Metabolic features of Gulf War illness. <i>PLoS ONE</i> , 2019, 14, e0219531.	2.5	29
47	Fast Swinnex filtration (FSF): a fast and robust sampling and extraction method suitable for metabolomics analysis of cultures grown in complex media. <i>Metabolomics</i> , 2015, 11, 198-209.	3.0	28
48	Englerin A induces an acute inflammatory response and reveals lipid metabolism and ER stress as targetable vulnerabilities in renal cell carcinoma. <i>PLoS ONE</i> , 2017, 12, e0172632.	2.5	27
49	Pyruvate carboxylase deficiency—insights from liver transplantation. <i>Molecular Genetics and Metabolism</i> , 2002, 77, 143-149.	1.1	25
50	Naturally occurring mitochondrial DNA heteroplasmy in the MRL mouse. <i>Mitochondrion</i> , 2008, 8, 358-366.	3.4	25
51	Antipurinergic therapy for autism—An in-depth review. <i>Mitochondrion</i> , 2018, 43, 1-15.	3.4	22
52	Impact of Nucleoside Reverse Transcriptase Inhibitors on Mitochondrial DNA and RNA in Human Skeletal Muscle Cells. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 2825-2830.	3.2	20
53	The Role of Methionine in Ethylmalonic Encephalopathy with Petchiae. <i>Archives of Neurology</i> , 2004, 61, 570.	4.5	19
54	Lesch—Nyhan Syndrome: mRNA expression of HPRT in patients with enzyme proven deficiency of HPRT and normal HPRT coding region of the DNA. <i>Molecular Genetics and Metabolism</i> , 2012, 106, 498-501.	1.1	18

#	ARTICLE	IF	CITATIONS
55	Proteomic Analysis of Urine Exosomes Reveals Renal Tubule Response to Leptospiral Colonization in Experimentally Infected Rats. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003640.	3.0	18
56	Metabolic features of recurrent major depressive disorder in remission, and the risk of future recurrence. <i>Translational Psychiatry</i> , 2021, 11, 37.	4.8	18
57	Mitochondrial DNA Mutation Detection by Electrospray Mass Spectrometry. <i>Clinical Chemistry</i> , 2007, 53, 195-203.	3.2	17
58	Identification of Maltase Glucoamylase as a Biomarker of Acute Kidney Injury in Patients with Cirrhosis. <i>Critical Care Research and Practice</i> , 2019, 2019, 1-8.	1.1	17
59	Metabolic and behavioral features of acute hyperpurinergia and the maternal immune activation mouse model of autism spectrum disorder. <i>PLoS ONE</i> , 2021, 16, e0248771.	2.5	17
60	Perspective: Cell danger response Biology—The new science that connects environmental health with mitochondria and the rising tide of chronic illness. <i>Mitochondrion</i> , 2020, 51, 40-45.	3.4	16
61	Medium-Chain Acyl Coenzyme A Dehydrogenase Deficiency. <i>Archives of Neurology</i> , 2001, 58, 811.	4.5	15
62	Proteomic analyses of Urine Exosomes reveal New Biomarkers of Diabetes in Pregnancy. <i>Madridge Journal of Diabetes</i> , 2016, 1, 11-22.	0.1	15
63	Kearns—Sayre Syndrome Presenting as 2-Oxoadipic Aciduria. <i>Molecular Genetics and Metabolism</i> , 2000, 69, 64-68.	1.1	14
64	Novel Mutations in the Human HPRT Gene. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2011, 30, 440-445.	1.1	14
65	Incomplete Healing as a Cause of Aging: The Role of Mitochondria and the Cell Danger Response. <i>Biology</i> , 2019, 8, 27.	2.8	14
66	Pitfalls in the Denaturing High-Performance Liquid Chromatography Analysis of Mitochondrial DNA Mutation. <i>Journal of Molecular Diagnostics</i> , 2008, 10, 102-108.	2.8	13
67	Autistic disorder with complex IV overactivity: A new mitochondrial syndrome. <i>Journal of Pediatric Neurology</i> , 2015, 09, 427-434.	0.2	13
68	Lesch—Nyhan Variant Syndrome: Real-Time RT-PCR for mRNA Quantification in Variable Presentation in Three Affected Family Members. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2012, 31, 616-629.	1.1	12
69	A Mutation in the Mitochondrial Aspartate/Glutamate Carrier Leads to a More Oxidizing Intramitochondrial Environment and an Inflammatory Myopathy in Dutch Shepherd Dogs. <i>Journal of Neuromuscular Diseases</i> , 2019, 6, 485-501.	2.6	11
70	Quantitative Mitochondrial DNA Mutation Analysis by Denaturing HPLC. <i>Clinical Chemistry</i> , 2007, 53, 1046-1052.	3.2	10
71	Novel mutations in the human MCCA and MCCB gene causing methylcrotonylglycinuria. <i>Molecular Genetics and Metabolism</i> , 2011, 102, 218-221.	1.1	10
72	Oxygen consumption by cultured human cells is impaired by a nucleoside analogue cocktail that inhibits mitochondrial DNA synthesis. <i>Mitochondrion</i> , 2005, 5, 154-161.	3.4	8

#	ARTICLE	IF	CITATIONS
73	De novo mutation in POLG leads to haplotype insufficiency and Alpers syndrome. <i>Mitochondrion</i> , 2009, 9, 340-345.	3.4	8
74	Lesch-Nyhan disease: I. Construction of expression vectors for hypoxanthine-guanine phosphoribosyltransferase (HGprt) enzyme and amyloid precursor protein (APP). <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020, 39, 905-922.	1.1	8
75	Assessing Bioenergetic Compromise in Autism Spectrum Disorder With ³¹ P Magnetic Resonance Spectroscopy. <i>Journal of Child Neurology</i> , 2014, 29, 187-193.	1.4	7
76	Novel mutation in the human <i>HPRT1</i> gene and the Lesch-Nyhan disease. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2017, 36, 704-711.	1.1	5
77	Resting-state magnetoencephalography source magnitude imaging with deep learning neural network for classification of symptomatic combat-related mild traumatic brain injury. <i>Human Brain Mapping</i> , 2021, 42, 1987-2004.	3.6	5
78	Reply to Vogt et al.: Metabolomics and chronic fatigue syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7142-E7143.	7.1	3
79	Reply to Roerink et al.: Metabolomics of chronic fatigue syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E911-E912.	7.1	3
80	Human <i>HPRT1</i> gene and the Lesch-Nyhan disease: Substitution of alanine for glycine and inversely in the HGprt enzyme protein. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2017, 36, 151-157.	1.1	3
81		2.4	2
82	Assay of mtDNA Polymerase β from Human Tissues. , 2002, 197, 259-271.		2
83	Lesch-Nyhan disease in two families from Chiloé Island with mutations in the <i>HPRT1</i> gene. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2017, 36, 452-462.	1.1	2
84	Mitochondrial DNA Depletion Associated With Partial Complex II and IV Deficiencies and 3-Methylglutaconic Aciduria. <i>Journal of Child Neurology</i> , 2001, 16, 136.	1.4	2
85	Fibroblast immuno-diagnosis of cytochrome oxidase (COX) deficiency in mitochondrial disease. <i>Mitochondrion</i> , 2011, 11, 430-436.	3.4	0
86	Mitochondrial Function and Superoxide Production is Reduced in the Diabetic Kidney and Restored by AMPK Activation. <i>FASEB Journal</i> , 2012, 26, 687.7.	0.5	0