

# Rima Kaddurah-Daouk

## List of Publications by Citations

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92  
papers

7,535  
citations

46  
h-index

86  
g-index

94  
ext. papers

8,676  
ext. citations

7.4  
avg, IF

5.67  
L-index

#	Paper	IF	Citations
92	Neuroprotective effects of creatine in a transgenic animal model of amyotrophic lateral sclerosis. <i>Nature Medicine</i> , <b>1999</b> , 5, 347-50	50.5	611
91	Metabolomics: a global biochemical approach to drug response and disease. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2008</b> , 48, 653-83	17.9	517
90	Neuroprotective effects of creatine in a transgenic mouse model of Huntington's disease. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 4389-97	6.6	454
89	Neuroprotective effects of creatine and cyclocreatine in animal models of Huntington's disease. <i>Journal of Neuroscience</i> , <b>1998</b> , 18, 156-63	6.6	365
88	Metabolomics enables precision medicine: "A White Paper, Community Perspective". <i>Metabolomics</i> , <b>2016</b> , 12, 149	4.7	327
87	Metabolomics in early Alzheimer's disease: identification of altered plasma sphingolipidome using shotgun lipidomics. <i>PLoS ONE</i> , <b>2011</b> , 6, e21643	3.7	284
86	The metabolomics standards initiative. <i>Nature Biotechnology</i> , <b>2007</b> , 25, 846-8	44.5	253
85	Metabolomics tools for identifying biomarkers for neuropsychiatric diseases. <i>Neurobiology of Disease</i> , <b>2009</b> , 35, 165-76	7.5	215
84	Metabolomics: a global biochemical approach to the study of central nervous system diseases. <i>Neuropsychopharmacology</i> , <b>2009</b> , 34, 173-86	8.7	208
83	Metabolomic mapping of atypical antipsychotic effects in schizophrenia. <i>Molecular Psychiatry</i> , <b>2007</b> , 12, 934-45	15.1	206
82	Metabolic network failures in Alzheimer's disease: A biochemical road map. <i>Alzheimer's and Dementia</i> , <b>2017</b> , 13, 965-984	1.2	201
81	Brain and blood metabolite signatures of pathology and progression in Alzheimer disease: A targeted metabolomics study. <i>PLoS Medicine</i> , <b>2018</b> , 15, e1002482	11.6	187
80	Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review. <i>Metabolomics</i> , <b>2015</b> , 11, 872-894	4.7	171
79	Pharmacometabolomics: implications for clinical pharmacology and systems pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , <b>2014</b> , 95, 154-67	6.1	138
78	Activation and repression of mammalian gene expression by the c-myc protein. <i>Genes and Development</i> , <b>1987</b> , 1, 347-57	12.6	135
77	Metabolomic analysis and signatures in motor neuron disease. <i>Metabolomics</i> , <b>2005</b> , 1, 101-108	4.7	130
76	Alterations in metabolic pathways and networks in Alzheimer's disease. <i>Translational Psychiatry</i> , <b>2013</b> , 3, e244	8.6	129

75	Enteric microbiome metabolites correlate with response to simvastatin treatment. <i>PLoS ONE</i> , <b>2011</b> , 6, e25482	3.7	127
74	Glycine and a glycine dehydrogenase (GLDC) SNP as citalopram/escitalopram response biomarkers in depression: pharmacometabolomics-informed pharmacogenomics. <i>Clinical Pharmacology and Therapeutics</i> , <b>2011</b> , 89, 97-104	6.1	125
73	Metabolomic Signatures for Drug Response Phenotypes: Pharmacometabolomics Enables Precision Medicine. <i>Clinical Pharmacology and Therapeutics</i> , <b>2015</b> , 98, 71-5	6.1	115
72	Metabolomic changes in autopsy-confirmed Alzheimer's disease. <i>Alzheimer's and Dementia</i> , <b>2011</b> , 7, 309-117	10.7	105
71	Increases in cortical glutamate concentrations in transgenic amyotrophic lateral sclerosis mice are attenuated by creatine supplementation. <i>Journal of Neurochemistry</i> , <b>2001</b> , 77, 383-90	6	100
70	Depletion of energy reserve via the creatine kinase reaction during the evolution of heart failure in cardiomyopathic hamsters. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1996</b> , 28, 755-65	5.8	92
69	Pretreatment metabolite as a predictor of response to sertraline or placebo in depressed outpatients: a proof of concept. <i>Translational Psychiatry</i> , <b>2011</b> , 1,	8.6	90
68	Establishing reporting standards for metabolomic and metabonomic studies: a call for participation. <i>OMICS A Journal of Integrative Biology</i> , <b>2006</b> , 10, 158-63	3.8	87
67	Lipidomic analysis of variation in response to simvastatin in the Cholesterol and Pharmacogenetics Study. <i>Metabolomics</i> , <b>2010</b> , 6, 191-201	4.7	86
66	Metabolomics reveals amino acids contribute to variation in response to simvastatin treatment. <i>PLoS ONE</i> , <b>2012</b> , 7, e38386	3.7	76
65	Altered interactions of tryptophan metabolites in first-episode neuroleptic-naive patients with schizophrenia. <i>Molecular Psychiatry</i> , <b>2010</b> , 15, 938-53	15.1	76
64	Lipidomics reveals early metabolic changes in subjects with schizophrenia: effects of atypical antipsychotics. <i>PLoS ONE</i> , <b>2013</b> , 8, e68717	3.7	75
63	TSPAN5, ERICH3 and selective serotonin reuptake inhibitors in major depressive disorder: pharmacometabolomics-informed pharmacogenomics. <i>Molecular Psychiatry</i> , <b>2016</b> , 21, 1717-1725	15.1	71
62	Metabolomics Standards Workshop and the development of international standards for reporting metabolomics experimental results. <i>Briefings in Bioinformatics</i> , <b>2006</b> , 7, 159-65	13.4	68
61	Gut microbial molecules in behavioural and neurodegenerative conditions. <i>Nature Reviews Neuroscience</i> , <b>2020</b> , 21, 717-731	13.5	67
60	Pharmacometabolomic mapping of early biochemical changes induced by sertraline and placebo. <i>Translational Psychiatry</i> , <b>2013</b> , 3, e223	8.6	66
59	3-Hydroxykynurenine and clinical symptoms in first-episode neuroleptic-naive patients with schizophrenia. <i>International Journal of Neuropsychopharmacology</i> , <b>2011</b> , 14, 756-67	5.8	63
58	Neuroprotective effects of creatine administration against NMDA and malonate toxicity. <i>Brain Research</i> , <b>2000</b> , 860, 195-8	3.7	62

57	Pharmacometabolomics of response to sertraline and to placebo in major depressive disorder - possible role for methoxyindole pathway. <i>PLoS ONE</i> , <b>2013</b> , 8, e68283	3.7	62
56	Purine pathway implicated in mechanism of resistance to aspirin therapy: pharmacometabolomics-informed pharmacogenomics. <i>Clinical Pharmacology and Therapeutics</i> , <b>2013</b> , 94, 525-32	6.1	60
55	Pharmacometabolomics reveals racial differences in response to atenolol treatment. <i>PLoS ONE</i> , <b>2013</b> , 8, e57639	3.7	59
54	Alterations in tryptophan and purine metabolism in cocaine addiction: a metabolomic study. <i>Psychopharmacology</i> , <b>2009</b> , 206, 479-89	4.7	56
53	Cerebrospinal fluid metabolome in mood disorders-remission state has a unique metabolic profile. <i>Scientific Reports</i> , <b>2012</b> , 2, 667	4.9	56
52	Metabolomic signatures of drug response phenotypes for ketamine and esketamine in subjects with refractory major depressive disorder: new mechanistic insights for rapid acting antidepressants. <i>Translational Psychiatry</i> , <b>2016</b> , 6, e894	8.6	55
51	Impaired plasmalogens in patients with schizophrenia. <i>Psychiatry Research</i> , <b>2012</b> , 198, 347-52	9.9	54
50	Stable isotope-resolved metabolomic analysis of lithium effects on glial-neuronal metabolism and interactions. <i>Metabolomics</i> , <b>2010</b> , 6, 165-179	4.7	53
49	Homeostatic imbalance of purine catabolism in first-episode neuroleptic-naïve patients with schizophrenia. <i>PLoS ONE</i> , <b>2010</b> , 5, e9508	3.7	53
48	Metabolomic differences in heart failure patients with and without major depression. <i>Journal of Geriatric Psychiatry and Neurology</i> , <b>2010</b> , 23, 138-46	3.8	50
47	Sex and APOE $\epsilon$ genotype modify the Alzheimer's disease serum metabolome. <i>Nature Communications</i> , <b>2020</b> , 11, 1148	17.4	46
46	Opioid use affects antioxidant activity and purine metabolism: preliminary results. <i>Human Psychopharmacology</i> , <b>2009</b> , 24, 666-75	2.3	45
45	Pharmacometabolomics reveals that serotonin is implicated in aspirin response variability. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , <b>2014</b> , 3, e125	4.5	42
44	Comparing metabolomic and pathologic biomarkers alone and in combination for discriminating Alzheimer's disease from normal cognitive aging. <i>Acta Neuropathologica Communications</i> , <b>2013</b> , 1, 28	7.3	42
43	Biomarkers for amyotrophic lateral sclerosis. <i>Expert Review of Molecular Diagnostics</i> , <b>2006</b> , 6, 387-98	3.8	40
42	Pharmacometabolomics of statin response. <i>Clinical Pharmacology and Therapeutics</i> , <b>2013</b> , 94, 562-5	6.1	37
41	Metabolomic signature of exposure and response to citalopram/escitalopram in depressed outpatients. <i>Translational Psychiatry</i> , <b>2019</b> , 9, 173	8.6	34
40	Beta-defensin 1, aryl hydrocarbon receptor and plasma kynurenine in major depressive disorder: metabolomics-informed genomics. <i>Translational Psychiatry</i> , <b>2018</b> , 8, 10	8.6	32

39	Metabolic profiling of patients with schizophrenia. <i>PLoS Medicine</i> , <b>2006</b> , 3, e363	11.6	32
38	Ketamine potentiates oxidative stress and influences behavior and inflammation in response to lipolysaccharide (LPS) exposure in early life. <i>Neuroscience</i> , <b>2017</b> , 353, 17-25	3.9	28
37	The inhibition of the kynurenine pathway prevents behavioral disturbances and oxidative stress in the brain of adult rats subjected to an animal model of schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2018</b> , 81, 55-63	5.5	28
36	Integration of pharmacometabolomic and pharmacogenomic approaches reveals novel insights into antiplatelet therapy. <i>Clinical Pharmacology and Therapeutics</i> , <b>2013</b> , 94, 570-3	6.1	28
35	Pharmacometabolomic Assessments of Atenolol and Hydrochlorothiazide Treatment Reveal Novel Drug Response Phenotypes. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , <b>2015</b> , 4, 669-79	4.5	26
34	Quality assurance of metabolomics. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2015</b> , 32, 319-26	4.3	26
33	Cyclocreatine in cancer chemotherapy. <i>Cancer Chemotherapy and Pharmacology</i> , <b>1995</b> , 35, 411-6	3.5	25
32	Plasma omega-3 polyunsaturated fatty acids and survival in patients with chronic heart failure and major depressive disorder. <i>Journal of Cardiovascular Translational Research</i> , <b>2012</b> , 5, 92-9	3.3	24
31	Ketamine and ketamine metabolites as novel estrogen receptor ligands: Induction of cytochrome P450 and AMPA glutamate receptor gene expression. <i>Biochemical Pharmacology</i> , <b>2018</b> , 152, 279-292	6	23
30	Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. <i>Nature Communications</i> , <b>2020</b> , 11, 5698	17.4	23
29	Associations between purine metabolites and monoamine neurotransmitters in first-episode psychosis. <i>Frontiers in Cellular Neuroscience</i> , <b>2013</b> , 7, 90	6.1	21
28	Pharmacometabolomic Assessment of Metformin in Non-diabetic, African Americans. <i>Frontiers in Pharmacology</i> , <b>2016</b> , 7, 135	5.6	20
27	Is diabetes mellitus-linked amino acid signature associated with $\beta$ -blocker-induced impaired fasting glucose?. <i>Circulation: Cardiovascular Genetics</i> , <b>2014</b> , 7, 199-205		19
26	Individualization of treatments with drugs metabolized by CES1: combining genetics and metabolomics. <i>Pharmacogenomics</i> , <b>2015</b> , 16, 649-65	2.6	18
25	A Genetic Response Score for Hydrochlorothiazide Use: Insights From Genomics and Metabolomics Integration. <i>Hypertension</i> , <b>2016</b> , 68, 621-9	8.5	18
24	Mapping depression rating scale phenotypes onto research domain criteria (RDoC) to inform biological research in mood disorders. <i>Journal of Affective Disorders</i> , <b>2018</b> , 238, 1-7	6.6	17
23	Augmentation of Physician Assessments with Multi-Omics Enhances Predictability of Drug Response: A Case Study of Major Depressive Disorder. <i>IEEE Computational Intelligence Magazine</i> , <b>2018</b> , 13, 20-31	5.6	16
22	Acylcarnitine metabolomic profiles inform clinically-defined major depressive phenotypes. <i>Journal of Affective Disorders</i> , <b>2020</b> , 264, 90-97	6.6	16

21	Alterations in acylcarnitines, amines, and lipids inform about the mechanism of action of citalopram/escitalopram in major depression. <i>Translational Psychiatry</i> , <b>2021</b> , 11, 153	8.6	16
20	Oxy lipid Profile of Low-Dose Aspirin Exposure: A Pharmacometabolomics Study. <i>Journal of the American Heart Association</i> , <b>2015</b> , 4, e002203	6	15
19	The steroid metabolome in women with premenstrual dysphoric disorder during GnRH agonist-induced ovarian suppression: effects of estradiol and progesterone addback. <i>Translational Psychiatry</i> , <b>2017</b> , 7, e1193	8.6	15
18	Cyclocreatine (1-carboxymethyl-2-iminoimidazolidine) inhibits the replication of human herpes viruses. <i>Antiviral Research</i> , <b>1994</b> , 23, 203-18	10.8	11
17	Enhancement of the recovery of rat hearts after prolonged cold storage by cyclocreatine phosphate. <i>Transplantation</i> , <b>1994</b> , 57, 803-6	1.8	11
16	Pharmacometabolomic signature of ataxia SCA1 mouse model and lithium effects. <i>PLoS ONE</i> , <b>2013</b> , 8, e70610	3.7	11
15	Pharmacometabolomic signature links simvastatin therapy and insulin resistance. <i>Metabolomics</i> , <b>2017</b> , 13, 1	4.7	10
14	Genetic Influences on Plasma Homocysteine Levels in African Americans and Yoruba Nigerians. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 49, 991-1003	4.3	10
13	Microtubule stabilization and potentiation of taxol activity by the creatine analog cyclocreatine. <i>Anti-Cancer Drugs</i> , <b>1995</b> , 6, 419-26	2.4	10
12	Bile acid synthesis, modulation, and dementia: A metabolomic, transcriptomic, and pharmacoepidemiologic study. <i>PLoS Medicine</i> , <b>2021</b> , 18, e1003615	11.6	10
11	Pharmacometabolomics Informs About Pharmacokinetic Profile of Methylphenidate. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , <b>2018</b> , 7, 525-533	4.5	10
10	Peripheral serum metabolomic profiles inform central cognitive impairment. <i>Scientific Reports</i> , <b>2020</b> , 10, 14059	4.9	8
9	Associations between central nervous system serotonin, fasting glucose, and hostility in African American females. <i>Annals of Behavioral Medicine</i> , <b>2015</b> , 49, 49-57	4.5	6
8	Bile acids targeted metabolomics and medication classification data in the ADNI1 and ADNI2 cohorts. <i>Scientific Data</i> , <b>2019</b> , 6, 212	8.2	6
7	Enhancement of cardiac function by cyclocreatine in models of cardiopulmonary bypass. <i>Journal of Molecular and Cellular Cardiology</i> , <b>1995</b> , 27, 1065-73	5.8	6
6	Synthesis and creatine kinase inhibitory activity of non-hydrolyzable analogs of phosphocreatine. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1997</b> , 7, 1021-1026	2.9	5
5	Module-based association analysis for omics data with network structure. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122309	3.7	4
4	Amyotrophic lateral sclerosis: Transgenic model and novel neuroprotective agent. <i>Neuroscience Research Communications</i> , <b>2000</b> , 26, 215-226		1

- 3 Metabolomic and inflammatory signatures of symptom dimensions in major depression.. *Brain, Behavior, and Immunity*, **2022**, 102, 42-52 16.6 1
- 2 Serum metabolites associated with brain amyloid beta deposition, cognition and dementia progression. *Brain Communications*, **2021**, 3, fcab139 4.5 1
- 1 O4-12-06: The Alzheimer's metabolome: Identification of novel markers and treatment targets **2015**, 11, P301-P302