Laila Y Al-Ayadhi

List of Publications by Citations

104 papers	1,964 citations	26 h-index	39 g-index
114 ext. papers	2,366 ext. citations	4.2 avg, IF	5.58 L-index

#	Paper	IF	Citations
104	GABAergic/glutamatergic imbalance relative to excessive neuroinflammation in autism spectrum disorders. *Journal of Neuroinflammation*, **2014**, 11, 189	10.1	116
103	Reduced serum concentrations of 25-hydroxy vitamin D in children with autism: relation to autoimmunity. *Journal of Neuroinflammation*, **2012**, 9, 201	10.1	96
102	Neuroinflammation in autism spectrum disorders. *Journal of Neuroinflammation*, **2012**, 9, 265	10.1	91
101	Relationship between Sonic hedgehog protein, brain-derived neurotrophic factor and oxidative stress in autism spectrum disorders. *Neurochemical Research*, **2012**, 37, 394-400	4.6	65
100	Association of social and cognitive impairment and biomarkers in autism spectrum disorders. *Journal of Neuroinflammation*, **2014**, 11, 4	10.1	60
99	Novel metabolic biomarkers related to sulfur-dependent detoxification pathways in autistic patients of Saudi Arabia. *BMC Neurology*, **2011**, 11, 139	3.1	59
98	Toll-like receptor 4 signaling is associated with upregulated NADPH oxidase expression in peripheral T cells of children with autism. *Brain, Behavior, and Immunity*, **2017**, 61, 146-154	16.6	54
97	Increased serum levels of anti-ganglioside M1 auto-antibodies in autistic children: relation to the disease severity. *Journal of Neuroinflammation*, **2011**, 8, 39	10.1	52
96	Camel Milk as a Potential Therapy as an Antioxidant in Autism Spectrum Disorder (ASD). *Evidence-based Complementary and Alternative Medicine*, **2013**, 2013, 602834	2.3	50
95	A key role for an impaired detoxification mechanism in the etiology and severity of autism spectrum disorders. *Behavioral and Brain Functions*, **2014**, 10, 14	4.1	48
94	Activation of IL-17 receptor leads to increased oxidative inflammation in peripheral monocytes of autistic children. *Brain, Behavior, and Immunity*, **2018**, 67, 335-344	16.6	47
93	Novel biomarkers of metabolic dysfunction is autism spectrum disorder: potential for biological diagnostic markers. *Metabolic Brain Disease*, **2017**, 32, 1983-1997	3.9	47
92	Altered oxytocin and vasopressin levels in autistic children in Central Saudi Arabia. *Neurosciences*, **2005**, 10, 47-50	0.1	47
91	Lipid mediators in plasma of autism spectrum disorders. *Lipids in Health and Disease*, **2012**, 11, 160	4.4	45
90	Heavy metals and trace elements in hair samples of autistic children in central Saudi Arabia. *Neurosciences*, **2005**, 10, 213-8	0.1	43
89	Relationship between absolute and relative ratios of glutamate, glutamine and GABA and severity of autism spectrum disorder. *Metabolic Brain Disease*, **2018**, 33, 843-854	3.9	40
88	A lack of association between hyperserotonemia and the increased frequency of serum anti-myelin basic protein auto-antibodies in autistic children. *Journal of Neuroinflammation*, **2011**, 8, 71	10.1	39

87	Apitoxin protects rat pups brain from propionic acid-induced oxidative stress: The expression pattern of Bcl-2 and Caspase-3 apoptotic genes. *NeuroToxicology*, **2015**, 49, 121-31	4.4	36
86	The relationship between the increased frequency of serum antineuronal antibodies and the severity of autism in children. *European Journal of Paediatric Neurology*, **2012**, 16, 464-8	3.8	36
85	Proinflammatory and proapoptotic markers in relation to mono and di-cations in plasma of autistic patients from Saudi Arabia. *Journal of Neuroinflammation*, **2011**, 8, 142	10.1	36
84	The link between some alleles on human leukocyte antigen system and autism in children. *Journal of Neuroimmunology*, **2013**, 255, 70-4	3.5	32
83	Effect of camel milk on thymus and activation-regulated chemokine in autistic children: double-blind study. *Pediatric Research*, **2014**, 75, 559-63	3.2	29
82	Low plasma progranulin levels in children with autism. *Journal of Neuroinflammation*, **2011**, 8, 111	10.1	29
81	Increased serum osteopontin levels in autistic children: relation to the disease severity. *Brain, Behavior, and Immunity*, **2011**, 25, 1393-8	16.6	28
80	Pancreatic response to gold nanoparticles includes decrease of oxidative stress and inflammation in autistic diabetic model. *Cellular Physiology and Biochemistry*, **2015**, 35, 586-600	3.9	27
79	Protective and restorative potency of Vitamin D on persistent biochemical autistic features induced in propionic acid-intoxicated rat pups. *BMC Complementary and Alternative Medicine*, **2014**, 14, 416	4.7	26
78	Differential regulation of Nrf2 is linked to elevated inflammation and nitrative stress in monocytes of children with autism. *Psychoneuroendocrinology*, **2020**, 113, 104554	5	26
77	Postnatal treatment using curcumin supplements to amend the damage in VPA-induced rodent models of autism. *BMC Complementary and Alternative Medicine*, **2017**, 17, 259	4.7	25
76	Neurohormonal changes in medical students during academic stress. *Annals of Saudi Medicine*, **2005** , 25, 36-40	1.6	25
75	Pro-inflammatory cytokines in autistic children in central Saudi Arabia. *Neurosciences*, **2005**, 10, 155-8	0.1	24
74	Mechanism of nitrogen metabolism-related parameters and enzyme activities in the pathophysiology of autism. *Journal of Neurodevelopmental Disorders*, **2012**, 4, 4	4.6	23
73	In the search for reliable biomarkers for the early diagnosis of autism spectrum disorder: the role of vitamin D. *Metabolic Brain Disease*, **2018**, 33, 917-931	3.9	22
72	Dysregulated enzymatic antioxidant network in peripheral neutrophils and monocytes in children with autism. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2019**, 88, 352-359	5.5	22
71	Oxidative and inflammatory mediators are upregulated in neutrophils of autistic children: Role of IL-17A receptor signaling. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2019**, 90, 204-211	5.5	22
70	The possible link between the elevated serum levels of neurokinin A and anti-ribosomal P protein antibodies in children with autism. *Journal of Neuroinflammation*, **2011**, 8, 180	10.1	21

69	Impaired lipid metabolism markers to assess the risk of neuroinflammation in autism spectrum disorder. *Metabolic Brain Disease*, **2018**, 33, 1141-1153	3.9	20
68	Systemic auto-antibodies in children with autism. *Journal of Neuroimmunology*, **2014**, 272, 94-8	3.5	20
67	Dysregulation in IL-6 receptors is associated with upregulated IL-17A related signaling in CD4+ T cells of children with autism. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2020**, 97, 109783	5.5	20
66	The second to fourth digit ratio (2D:4D) in Saudi boys with autism: A potential screening tool. *Early Human Development*, **2015**, 91, 413-5	2.2	18
65	Correlation Between Hedgehog (Hh) Protein Family and Brain-Derived Neurotrophic Factor (BDNF) in Autism Spectrum Disorder (ASD). *Journal of the College of Physicians and Surgeons--Pakistan: JCPSP*, **2015**, 25, 882-5	0.7	18
64	The Relationship of HLA Class I and II Alleles and Haplotypes with Autism: A Case Control Study. *Autism Research & Treatment*, **2014**, 2014, 242048	3.2	16
63	A novel study on amyloid □peptide 40, 42 and 40/42 ratio in Saudi autistics. *Behavioral and Brain Functions*, **2012**, 8, 4	4.1	15
62	A possible association between elevated serum levels of brain-specific auto-antibodies and reduced plasma levels of docosahexaenoic acid in autistic children. *Journal of Neuroimmunology*, **2015**, 280, 16-20	3.5	15
61	Preliminary evaluation of a novel nine-biomarker profile for the prediction of autism spectrum disorder. *PLoS ONE*, **2020**, 15, e0227626	3.7	14
60	Metabolism-Associated Markers and Childhood Autism Rating Scales (CARS) as a Measure of Autism Severity. *Journal of Molecular Neuroscience*, **2018**, 65, 265-276	3.3	14
59	Selected biomarkers as predictive tools in testing efficacy of melatonin and coenzyme Q on propionic acid - induced neurotoxicity in rodent model of autism. *BMC Neuroscience*, **2014**, 15, 34	3.2	14
58	The Use of Multi-parametric Biomarker Profiles May Increase the Accuracy of ASD Prediction. *Journal of Molecular Neuroscience*, **2018**, 66, 85-101	3.3	13
57	Serum antinucleosome-specific antibody as a marker of autoimmunity in children with autism. *Journal of Neuroinflammation*, **2014**, 11, 69	10.1	13
56	Combined cytogenotoxic effects of bee venom and bleomycin on rat lymphocytes: an in vitro study. *BioMed Research International*, **2014**, 2014, 173903	3	13
55	Cysteinyl leukotriene correlated with 8-isoprostane levels as predictive biomarkers for sensory dysfunction in autism. *Lipids in Health and Disease*, **2016**, 15, 130	4.4	13
54	Therapeutic potency of bee pollen against biochemical autistic features induced through acute and sub-acute neurotoxicity of orally administered propionic acid. *BMC Complementary and Alternative Medicine*, **2016**, 16, 120	4.7	13
53	The neurotoxic effect of clindamycin - induced gut bacterial imbalance and orally administered propionic acid on DNA damage assessed by the comet assay: protective potency of carnosine and carnitine. *Gut Pathogens*, **2013**, 5, 9	5.4	11
52	Possible ameliorative effects of antioxidants on propionic acid / clindamycin - induced neurotoxicity in Syrian hamsters. *Gut Pathogens*, **2013**, 5, 32	5.4	11

51	Brain autoantibodies in autism spectrum disorder. *Biomarkers in Medicine*, **2014**, 8, 345-52	2.3	11
50	Endothelial antibody levels in the sera of children with autism spectrum disorders. *Journal of the Chinese Medical Association*, **2015**, 78, 414-7	2.8	10
49	Elevated IL-16 expression is associated with development of immune dysfunction in children with autism. *Psychopharmacology*, **2019**, 236, 831-838	4.7	10
48	Behavioral Benefits of Camel Milk in Subjects with Autism Spectrum Disorder. *Journal of the College of Physicians and Surgeons--Pakistan: JCPSP*, **2015**, 25, 819-23	0.7	10
47	Dysregulation of T cell immunoglobulin and mucin domain 3 (TIM-3) signaling in peripheral immune cells is associated with immune dysfunction in autistic children. *Molecular Immunology*, **2019**, 106, 77-86	4.3	9
46	Sex hormones, personality characters and professional status among Saudi females. *Journal of King Abdulaziz University, Islamic Economics*, **2004**, 25, 711-6	1.1	9
45	Potency of pre-post treatment of coenzyme Q10 and melatonin supplement in ameliorating the impaired fatty acid profile in rodent model of autism. *Food and Nutrition Research*, **2016**, 60, 28127	3.1	8
44	Plasma Levels of Alpha and Gamma Synucleins in Autism Spectrum Disorder: An Indicator of Severity. *Medical Principles and Practice*, **2021**, 30, 160-167	2.1	8
43	The use of biomarkers associated with leaky gut as a diagnostic tool for early intervention in autism spectrum disorder: a systematic review. *Gut Pathogens*, **2021**, 13, 54	5.4	8
42	Oxidative stress and neurodegenerative disease. *Neurosciences*, **2004**, 9, 19-23	0.1	8
41	Role of proteomics in the discovery of autism biomarkers. *Journal of the College of Physicians and Surgeons--Pakistan: JCPSP*, **2013**, 23, 137-43	0.7	8
40	Involvement of CD45 cells in the development of autism spectrum disorder through dysregulation of granulocyte-macrophage colony-stimulating factor, key inflammatory cytokines, and transcription factors. *International Immunopharmacology*, **2020**, 83, 106466	5.8	7
39	Alterations in plasma dipeptidyl peptidase IV in autism: A pilot study. *Neurology Psychiatry and Brain Research*, **2014**, 20, 41-44	2.1	7
38	Ubiquitous plasticizer, Di-(2-ethylhexyl) phthalate enhances existing inflammatory profile in monocytes of children with autism. *Toxicology*, **2020**, 446, 152597	4.4	7
37	Elevated expression of toll-like receptor 4 is associated with NADPH oxidase-induced oxidative stress in B cells of children with autism. *International Immunopharmacology*, **2020**, 84, 106555	5.8	6
36	Impact of Auditory Integrative Training on Transforming Growth Factor-β and Its Effect on Behavioral and Social Emotions in Children with Autism Spectrum Disorder. *Medical Principles and Practice*, **2018**, 27, 23-29	2.1	6
35	Dysregulation of Ki-67 Expression in T Cells of Children with Autism Spectrum Disorder. *Children*, **2021**, 8,	2.8	6
34	Dysregulation of the expression of HLA-DR, costimulatory molecule, and chemokine receptors on immune cells in children with autism. *International Immunopharmacology*, **2018**, 65, 360-365	5.8	6

33	The synergistic effect of adenosine A2A receptors agonist, type IV phosphodiestease inhibitor and ATP-sensitive K channels activation on free radicals production and aggregation of human polymorphoneuclear leukocytes. *Pharmacological Research*, **2004**, 50, 157-63	10.2	5
32	Imbalance in pro-inflammatory and anti-inflammatory cytokines milieu in B cells of children with autism.. *Molecular Immunology*, **2021**, 141, 297-304	4.3	5
31	Upregulation of interleukin (IL)-31, a cytokine producing CXCR1 peripheral immune cells, contributes to the immune abnormalities of autism spectrum disorder. *Journal of Neuroimmunology* , **2020**, 349, 577430	3.5	5
30	Therapeutic use of hyperbaric oxygen therapy for children with autism spectrum disorder. *Journal of the College of Physicians and Surgeons--Pakistan: JCPSP*, **2014**, 24, 508-14	0.7	5
29	Understanding the roles of glutamine synthetase, glutaminase, and glutamate decarboxylase autoantibodies in imbalanced excitatory/inhibitory neurotransmission as etiological mechanisms of autism. *Psychiatry and Clinical Neurosciences*, **2018**, 72, 362-373	6.2	4
28	Serum level of desert hedgehog protein in autism spectrum disorder: preliminary results. *Medical Principles and Practice*, **2014**, 23, 14-7	2.1	4
27	Possible ameliorative effect of breastfeeding and the uptake of human colostrum against coeliac disease in autistic rats. *World Journal of Gastroenterology*, **2013**, 19, 3281-90	5.6	4
26	GABA synaptopathy promotes the elevation of caspases 3 and 9 as pro-apoptotic markers in Egyptian patients with autism spectrum disorder. *Acta Neurologica Belgica*, **2021**, 121, 489-501	1.5	4
25	Role of hedgehog protein family members in autistic children. *Neurology Psychiatry and Brain Research*, **2014**, 20, 63-67	2.1	3
24	Role of serum levels of neurotensin in children with autism spectrum disorder. *Neurology Psychiatry and Brain Research*, **2013**, 19, 59-63	2.1	3
23	Evaluation of DNA repair efficiency in autistic children by molecular cytogenetic analysis and transcriptome profiling. *DNA Repair*, **2020**, 85, 102750	4.3	3
22	The effect of vitamin E, L-arginine, N-nitro L-arginine methyl ester and forskolin on endocrine and metabolic changes of rats exposed to acute cold stress. *Journal of King Abdulaziz University, Islamic Economics*, **2006**, 27, 17-22	1.1	3
21	Impact of Auditory Integration Therapy (AIT) on the Plasma Levels of Human Glial Cell Line-Derived Neurotrophic Factor (GDNF) in Autism Spectrum Disorder. *Journal of Molecular Neuroscience*, **2019**, 68, 688-695	3.3	2
20	Upregulation of enzymatic antioxidants in CD4 T cells of autistic children. *Biochimie*, **2020**, 171-172, 205-212	4.2	2
19	Elevated Plasma X-Linked Neuroligin 4 Expression Is Associated with Autism Spectrum Disorder. *Medical Principles and Practice*, **2020**, 29, 480-485	2.1	1
18	Role of amino acids in the pathophysiology of autism spectrum disorders in Saudi and Egyptian population samples. *Journal of Pediatric Neurology*, **2015**, 12, 171-181	0.2	1
17	Prevalence of antimitochondrial antibodies in autism spectrum subjects. *Future Neurology*, **2015**, 10, 203-209	1.5	1
16	C-C motif chemokine receptor 6-mediated pro-inflammatory mediator expression is associated with immune dysfunction in children with autism. *Research in Autism Spectrum Disorders*, **2020**, 71, 101500	3	1

15	Evaluation of plasma soluble fatty acid synthase levels among Saudi autistic children. Relation to disease severity. *Neurosciences*, **2013**, 18, 242-7	0.1	1
14	Dysregulated Nrf2 signaling in response to di(2-ethylhexyl) phthalate in neutrophils of children with autism.. *International Immunopharmacology*, **2022**, 106, 108619	5.8	1
13	Camel Milk as a Potential Nutritional Therapy in Autism **2017**, 389-405		0
12	Alpha-Synuclein, cyclooxygenase-2 and prostaglandins-EP2 receptors as neuroinflammatory biomarkers of autism spectrum disorders: Use of combined ROC curves to increase their diagnostic values. *Lipids in Health and Disease*, **2021**, 20, 155	4.4	0
11	A potential role for the adrenal gland in autism. *Scientific Reports*, **2021**, 11, 17743	4.9	0
10	Discriminant analysis and binary logistic regression enable more accurate prediction of autism spectrum disorder than principal component analysis.. *Scientific Reports*, **2022**, 12, 3764	4.9	0
9	Elimination of high-refined-sugar diet as treatment strategy for autistic features induced in a rodent model. *Tropical Journal of Pharmaceutical Research*, **2017**, 16, 1637	0.8	
8	CTRP3 as a novel biomarker in the plasma of Saudi children with autism.. *PeerJ*, **2022**, 10, e12630	3.1	
7	The influence of academics stress on free radicals production in the blood of students during examinations. *Annals of Saudi Medicine*, **2003**, 23, 51-4	1.6	
6	Arginine, omega-3 fatty acids and nucleotide-enriched diet augment the anti-inflammatory effect of diclofenac on carrageenan-induced rat paw edema. *Journal of King Abdulaziz University, Islamic Economics*, **2005**, 26, 1146-8	1.1	
5	Reply to "Plasma Levels of Alpha and Gamma Synucleins in Children with Autism Spectrum Disorder: Statistical Validity".. *Medical Principles and Practice*, **2022**, 1	2.1	
4	Preliminary evaluation of a novel nine-biomarker profile for the prediction of autism spectrum disorder **2020**, 15, e0227626		
3	Preliminary evaluation of a novel nine-biomarker profile for the prediction of autism spectrum disorder **2020**, 15, e0227626		
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