

# Hossam A Shaltout

## List of Publications by Year in descending order

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95  
papers

1,973  
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218677  
26  
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2329  
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#	ARTICLE	IF	CITATIONS
1	Update on the Angiotensin Converting Enzyme 2-Angiotensin (1-7)-Mas Receptor Axis: Fetal Programing, Sex Differences, and Intracellular Pathways. <i>Frontiers in Endocrinology</i> , 2014, 4, 201.	3.5	164
2	Angiotensin metabolism in renal proximal tubules, urine, and serum of sheep: evidence for ACE2-dependent processing of angiotensin II. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, F82-F91.	2.7	130
3	Fetal programming and the angiotensin-(1-7) axis: a review of the experimental and clinical data. <i>Clinical Science</i> , 2019, 133, 55-74.	4.3	93
4	Tackling neuroinflammation and cholinergic deficit in Alzheimer's disease: Multi-target inhibitors of cholinesterases, cyclooxygenase-2 and 15-lipoxygenase. <i>European Journal of Medicinal Chemistry</i> , 2019, 167, 161-186.	5.5	78
5	Nuclear angiotensin II type 2 (AT <sub>2</sub> ) receptors are functionally linked to nitric oxide production. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F1484-F1493.	2.7	71
6	Alterations in Circulatory and Renal Angiotensin-Converting Enzyme and Angiotensin-Converting Enzyme 2 in Fetal Programmed Hypertension. <i>Hypertension</i> , 2009, 53, 404-408.	2.7	70
7	Glucocorticoid-Induced Fetal Programming Alters the Functional Complement of Angiotensin Receptor Subtypes Within the Kidney. <i>Hypertension</i> , 2011, 57, 620-626.	2.7	68
8	Leptin Impairs Cardiovagal Baroreflex Function at the Level of the Solitary Tract Nucleus. <i>Hypertension</i> , 2009, 54, 1001-1008.	2.7	64
9	Effects of supervised exercise and dietary nitrate in older adults with controlled hypertension and/or heart failure with preserved ejection fraction. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 69, 78-90.	2.7	51
10	Renal function and blood pressure are altered in adolescents born preterm. <i>Pediatric Nephrology</i> , 2019, 34, 137-144.	1.7	49
11	The Role of Heart Rate Variability in Mindfulness-Based Pain Relief. <i>Journal of Pain</i> , 2020, 21, 306-323.	1.4	47
12	Association between preterm birth and the renin-angiotensin system in adolescence. <i>Journal of Hypertension</i> , 2018, 36, 2092-2101.	0.5	42
13	Angiotensin-(1-12) requires angiotensin converting enzyme and AT <sub>1</sub> receptors for cardiovascular actions within the solitary tract nucleus. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H763-H771.	3.2	41
14	Acute AT <sub>1</sub> -receptor blockade reverses the hemodynamic and baroreflex impairment in adult sheep exposed to antenatal betamethasone. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H541-H547.	3.2	40
15	Angiotensin peptides and central autonomic regulation. <i>Current Opinion in Pharmacology</i> , 2011, 11, 131-137.	3.5	35
16	Apelin-13 in blood pressure regulation and cardiovascular disease. <i>Current Opinion in Nephrology and Hypertension</i> , 2016, 25, 396-403.	2.0	35
17	Angiotensin-(1-7) Deficiency and Baroreflex Impairment Precede the Antenatal Betamethasone Exposure-Induced Elevation in Blood Pressure. <i>Hypertension</i> , 2012, 59, 453-458.	2.7	34
18	Obesity is Associated with Higher Blood Pressure and Higher Levels of Angiotensin II but Lower Angiotensin-(1-7) in Adolescents Born Preterm. <i>Journal of Pediatrics</i> , 2019, 205, 55-60.e1.	1.8	34

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19	Mechanism of Fatty Acids Induced Suppression of Cardiovascular Reflexes in Rats. Journal of Pharmacology and Experimental Therapeutics, 2005, 314, 1328-1337.	2.5	33
20	Allopurinol alleviates hypertension and proteinuria in high fructose, high salt and high fat induced model of metabolic syndrome. Translational Research, 2015, 165, 621-630.	5.0	32
21	Effect of Fludrocortisone Acetate on Chronic Unexplained Nausea and Abdominal Pain in Children With Orthostatic Intolerance. Journal of Pediatric Gastroenterology and Nutrition, 2014, 59, 39-43.	1.8	31
22	Exaggerated sympathetic mediated responses to behavioral or pharmacological challenges following antenatal betamethasone exposure. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E979-E985.	3.5	30
23	Relationship among nausea, anxiety, and orthostatic symptoms in pediatric patients with chronic unexplained nausea. Experimental Brain Research, 2014, 232, 2645-2650.	1.5	30
24	Antenatal corticosteroids and the renin-angiotensin-aldosterone system in adolescents born preterm. Pediatric Research, 2017, 81, 88-93.	2.3	30
25	In Vivo Expression of Angiotensin-(1-7) Lowers Blood Pressure and Improves Baroreflex Function in Transgenic (mRen2)27 Rats. Journal of Cardiovascular Pharmacology, 2012, 60, 150-157.	1.9	29
26	Mediterranean diet, stress resilience, and aging in nonhuman primates. Neurobiology of Stress, 2020, 13, 100254.	4.0	29
27	Association of Heart Rate Variability With Cognitive Performance: The Multi-Ethnic Study of Atherosclerosis. Journal of the American Heart Association, 2020, 9, e013827.	3.7	29
28	Central Angiotensin-(1-7) Improves Vagal Function Independent of Blood Pressure in Hypertensive (mRen2)27 Rats. Hypertension, 2012, 60, 1257-1265.	2.7	28
29	A bihemispheric autonomic model for traumatic stress effects on health and behavior. Frontiers in Psychology, 2014, 5, 843.	2.1	28
30	Fludrocortisone improves nausea in children with orthostatic intolerance (OI). Clinical Autonomic Research, 2011, 21, 419-423.	2.5	27
31	Fetal betamethasone exposure attenuates angiotensin-(1-7)-Mas receptor expression in the dorsal medulla of adult sheep. Peptides, 2013, 44, 25-31.	2.4	25
32	Acute and chronic systemic CB <sub>1</sub> cannabinoid receptor blockade improves blood pressure regulation and metabolic profile in hypertensive (mRen2)27 rats. Physiological Reports, 2014, 2, e12108.	1.7	25
33	Time, Touch, and Compassion: Effects on Autonomic Nervous System and Well-Being. Explore: the Journal of Science and Healing, 2012, 8, 177-184.	1.0	23
34	Non-verbal communication of compassion: measuring psychophysiological effects. BMC Complementary and Alternative Medicine, 2011, 11, 132.	3.7	21
35	Antenatal betamethasone exposure is associated with lower ANG-(1-7) and increased ACE in the CSF of adult sheep. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R679-R688.	1.8	21
36	Effects of Resistance Training With and Without Caloric Restriction on Arterial Stiffness in Overweight and Obese Older Adults. American Journal of Hypertension, 2016, 29, 494-500.	2.0	20

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37	Systemic Outcomes of (Pyr1)-Apelin-13 Infusion at Mid-Late Pregnancy in a Rat Model with Preeclamptic Features. Scientific Reports, 2019, 9, 8579.	3.3	20
38	Clinical, hemispheric, and autonomic changes associated with use of closed-loop, allostatic neurotechnology by a case series of individuals with self-reported symptoms of post-traumatic stress. BMC Psychiatry, 2017, 17, 141.	2.6	19
39	Distinct neurohumoral biomarker profiles in children with hemodynamically defined orthostatic intolerance may predict treatment options. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H416-H425.	3.2	17
40	Renin-angiotensin system blockade in the COVID-19 pandemic. CKJ: Clinical Kidney Journal, 2021, 14, i48-i59.	2.9	17
41	Antenatal steroid exposure and heart rate variability in adolescents born with very low birth weight. Pediatric Research, 2017, 81, 57-62.	2.3	16
42	Cyclosporine Induces Progressive Attenuation of Baroreceptor Heart Rate Response and Cumulative Pressor Response in Conscious Unrestrained Rats. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 966-973.	2.5	15
43	Enhanced activity of an angiotensin-(1-7) neuropeptidase in glucocorticoid-induced fetal programming. Peptides, 2014, 52, 74-81.	2.4	14
44	Rightward dominance in temporal high-frequency electrical asymmetry corresponds to higher resting heart rate and lower baroreflex sensitivity in a heterogeneous population. Brain and Behavior, 2015, 5, e00343.	2.2	13
45	Successful use of closed-loop allostatic neurotechnology for post-traumatic stress symptoms in military personnel: self-reported and autonomic improvements. Military Medical Research, 2017, 4, 38.	3.4	13
46	Proton Magnetic Resonance Spectroscopy Detection of Neurotransmitters in Dorsomedial Medulla Correlate With Spontaneous Baroreceptor Reflex Function. Hypertension, 2010, 55, 487-493.	2.7	12
47	Lower urinary $\hat{\Delta}$ Klotho is associated with lower angiotensin-(1-7) and higher blood pressure in young adults born preterm with very low birthweight. Journal of Clinical Hypertension, 2020, 22, 1033-1040.	2.0	12
48	The Functional Role of PI3K in Maintenance of Blood Pressure and Baroreflex Suppression in (mRen2)27 and mRen2.Lewis Rat. Journal of Cardiovascular Pharmacology, 2011, 58, 367-373.	1.9	11
49	A Preliminary Study of the Effectiveness of an Allostatic, Closed-Loop, Acoustic Stimulation Neurotechnology in the Treatment of Athletes with Persisting Post-concussion Symptoms. Sports Medicine - Open, 2016, 2, 39.	3.1	11
50	Improvements in Heart Rate Variability, Baroreflex Sensitivity, and Sleep After Use of Closed-Loop Allostatic Neurotechnology by a Heterogeneous Cohort. Frontiers in Public Health, 2018, 6, 116.	2.7	11
51	Association of circulating uric acid and angiotensin-(1-7) in relation to higher blood pressure in adolescents and the influence of preterm birth. Journal of Human Hypertension, 2020, 34, 818-825.	2.2	11
52	Pilot Trial of a Noninvasive Closed-Loop Neurotechnology for Stress-Related Symptoms in Law Enforcement: Improvements in Self-Reported Symptoms and Autonomic Function. Global Advances in Health and Medicine, 2020, 9, 216495612092328.	1.6	10
53	Autonomic control of the heart is altered in Sprague-Dawley rats with spontaneous hydronephrosis. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H2206-H2213.	3.2	9
54	Medullary Endocannabinoids Contribute to the Differential Resting Baroreflex Sensitivity in Rats with Altered Brain Renin-Angiotensin System Expression. Frontiers in Physiology, 2016, 7, 207.	2.8	9

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55	Central ANG-(1â€“7) infusion improves blood pressure regulation in antenatal betamethasone-exposed sheep and reveals sex-dependent effects on oxidative stress. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H1458-H1467.	3.2	9
56	Use of an allostatic neurotechnology by adolescents with postural orthostatic tachycardia syndrome (POTS) is associated with improvements in heart rate variability and changes in temporal lobe electrical activity. Experimental Brain Research, 2016, 234, 791-798.	1.5	8
57	Antenatal corticosteroids and cardiometabolic outcomes in adolescents born with very low birth weight. Pediatric Research, 2017, 82, 697-703.	2.3	8
58	Children with orthostatic intolerance exhibit elevated markers of inflammation in the dorsal medulla. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H323-H329.	3.2	8
59	Antenatal Steroid Exposure, Aerobic Fitness, and Physical Activity in Adolescents Born Preterm with Very Low Birth Weight. Journal of Pediatrics, 2019, 215, 98-106.e2.	1.8	7
60	Gender differences in urinary ACE and ACE2 activities in adolescents. FASEB Journal, 2008, 22, 940.6.	0.5	7
61	Significance of Right Anterior Insula Activity for Mental Health Intervention. JAMA Psychiatry, 2014, 71, 336.	11.0	6
62	Alterations in the Medullary Endocannabinoid System Contribute to Age-related Impairment of Baroreflex Sensitivity. Journal of Cardiovascular Pharmacology, 2015, 65, 473-479.	1.9	6
63	Chronic nausea and orthostatic intolerance: Diagnostic utility of orthostatic challenge duration, Nausea Profile Questionnaire, and neurohumoral measures. Neurogastroenterology and Motility, 2018, 30, e13433.	3.0	6
64	Comparison of Candesartan and Angiotensin-(1-7) Combination to Mito-TEMPO Treatment for Normalizing Blood Pressure and Sympathovagal Balance in (mREN2)27 Rats. Journal of Cardiovascular Pharmacology, 2019, 73, 143-148.	1.9	6
65	Highâ€“resolution, relational, resonanceâ€“based, electroencephalic mirroring (HIRREM) improves symptoms and autonomic function for insomnia: A randomized, placeboâ€“controlled clinical trial. Brain and Behavior, 2020, 10, e01826.	2.2	5
66	Response to Angiotensin-(1-7) and Bradykinin in Baroreceptor Reflex Sensitivity in Hypertension. Hypertension, 2013, 61, e20.	2.7	3
67	Design and synthesis of some new 2,3â€“bipyridine-5-carbonitriles as potential anti-inflammatory/antimicrobial agents. Future Medicinal Chemistry, 2017, 9, 1413-1450.	2.3	3
68	Sex-dependent expression of brain medullary MAP and PI3 kinases in adult sheep with antenatal betamethasone exposure. Clinical Science, 2018, 132, 1953-1962.	4.3	3
69	Psychosocial stress increases risk for type 2 diabetes in female cynomolgus macaques consuming a western diet. Psychoneuroendocrinology, 2022, 139, 105706.	2.7	2
70	Abstract 261: Relationship of Arginine Vasopressin and Blood Pressure in Patients with Orthostatic Intolerance and Nausea. Hypertension, 2013, 62, .	2.7	2
71	Influence of race on the effect of premature birth on salivary cortisol response to stress in adolescents. Pediatric Research, 2020, 87, 1100-1105.	2.3	1
72	Gender Differences in the Development of Insulin Resistance in Adult Sheep As Result of Antenatal Betamethasone. FASEB Journal, 2007, 21, A434.	0.5	1

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73	Modulation of Baroreflex Sensitivity by Endogenous Angiotensins in Lamb Solitary Tract Nucleus. FASEB Journal, 2010, 24, 624.7.	0.5	1
74	Metabolic and cardiovascular adjustments to hemorrhage in [TGR(ASrAogen)] rats and (mRen2)27 rats. FASEB Journal, 2012, 26, 891.7.	0.5	1
75	Preterm Adolescents Exhibit Higher Blood Pressure and Sodium Retention with Higher Uric Acid and Differential Circulating Renin-Angiotensin System Expression. FASEB Journal, 2018, 32, 883.6.	0.5	1
76	Abstract P396: Vitamin D Supplementation Improves Cardiovascular Response to Head Up Tilt in Adolescents Suffering from Syncope. Hypertension, 2018, 72, .	2.7	1
77	Chronic Idiopathic Nausea in Children Associated With Orthostatic Intolerance Improves After Treatment With Fludrocortisone. Gastroenterology, 2011, 140, S-743.	1.3	0
78	Children with chronic nausea and orthostatic intolerance have unique brain network organization: A case-control trial. Neurogastroenterology and Motility, 2022, 34, e14271.	3.0	0
79	Predominance of ACE2-Dependent Metabolism of Angiotensin II But Not Angiotensin I In Sheep Renal Proximal Tubules and Urine. FASEB Journal, 2006, 20, .	0.5	0
80	Modeling of Angiotensin Peptide Metabolism in Renal Proximal Tubules. , 2008, , .		0
81	Antenatal Betamethasone Causes Alterations in Angiotensin Receptors in Sheep Brain in a Gender Specific Manner. FASEB Journal, 2009, 23, 941.11.	0.5	0
82	Antenatal Steroid Exposure is Associated with Reduced Urinary ACE2 Activity in Adolescents. FASEB Journal, 2010, 24, 605.1.	0.5	0
83	Sex and Racial Background Influence Angiotensin Peptide Metabolism in Young Adults. FASEB Journal, 2010, 24, 1024.31.	0.5	0
84	Immunocytochemical Distribution of the Ang-(1-7)/Mas Receptor in the Sheep Kidney. FASEB Journal, 2010, 24, 605.6.	0.5	0
85	Fetal Betamethasone Exposure and Age Influence the Expression of AT7/mas Receptors in the Solitary Tract Nucleus. FASEB Journal, 2012, 26, 1101.12.	0.5	0
86	Reduction in central mitochondrial ROS improves cardiovagal baroreflex function independent of blood pressure in (mRen2)27 rats. FASEB Journal, 2013, 27, 890.4.	0.5	0
87	Differential Expression of Renin-Angiotensin System Components in the Choroid Plexus of Betamethasone Exposed and Control Sheep. FASEB Journal, 2013, 27, 1107.12.	0.5	0
88	Obesity Induces Further Autonomic Impairment in Sheep Exposed Antenatally to Betamethasone. FASEB Journal, 2015, 29, LB724.	0.5	0
89	Intracerebroventricular Infusion of Angiotensin-(1-7) Improves Baroreflex Sensitivity in Antenatal Betamethasone Exposed Sheep. FASEB Journal, 2015, 29, 811.30.	0.5	0
90	Abstract P306: Preterm Birth is Associated with Increased Blood Pressure and Increased Urinary Angiotensinogen in Young Adults. Hypertension, 2018, 72, .	2.7	0

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91	Abstract P301: Heart Rate Variability is Associated with Future Global Cognitive Performance: the Multi-Ethnic Study of Atherosclerosis. Hypertension, 2018, 72, .	2.7	0
92	Abstract 135: Impaired Autonomic Function in Young Adults Born Preterm With Very Low Birth Weight is Associated With Elevated Serum Uric Acid Levels. Hypertension, 2018, 72, .	2.7	0
93	Abstract P2062: Vitamin D Supplementation Improves Vascular Function in Adolescents Suffering from Orthostatic Intolerance. Hypertension, 2019, 74, .	2.7	0
94	Abstract P198: Vitamin D Supplementation Improves Autonomic Response To Head Up Tilt In Adolescents Suffering From Orthostatic Intolerance. Hypertension, 2020, 76, .	2.7	0
95	325 Blood pressure and the kidney cortex transcriptome response to high sodium diet challenge in female nonhuman primates. Journal of Clinical and Translational Science, 2022, 6, 58-59.	0.6	0