

Melinda T Coughlan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

5,189
citations

35
h-index

72
g-index

90
ext. papers

6,081
ext. citations

5.3
avg, IF

5.72
L-index

#	Paper	IF	Citations
78	Oxidative stress as a major culprit in kidney disease in diabetes. <i>Diabetes</i> , 2008 , 57, 1446-54	0.9	843
77	Receptor for advanced glycation end products (RAGE) deficiency attenuates the development of atherosclerosis in diabetes. <i>Diabetes</i> , 2008 , 57, 2461-9	0.9	334
76	RAGE-induced cytosolic ROS promote mitochondrial superoxide generation in diabetes. <i>Journal of the American Society of Nephrology: JASN</i> , 2009 , 20, 742-52	12.7	323
75	Inhibition of NADPH oxidase prevents advanced glycation end product-mediated damage in diabetic nephropathy through a protein kinase C-alpha-dependent pathway. <i>Diabetes</i> , 2008 , 57, 460-9	0.9	281
74	miR-200a Prevents renal fibrogenesis through repression of TGF- β expression. <i>Diabetes</i> , 2011 , 60, 280-7	0.9	279
73	Metabolic benefits of dietary prebiotics in human subjects: a systematic review of randomised controlled trials. <i>British Journal of Nutrition</i> , 2014 , 111, 1147-61	3.6	201
72	Altered placental oxidative stress status in gestational diabetes mellitus. <i>Placenta</i> , 2004 , 25, 78-84	3.4	164
71	Mitochondrial dysfunction and mitophagy: the beginning and end to diabetic nephropathy?. <i>British Journal of Pharmacology</i> , 2014 , 171, 1917-42	8.6	161
70	Interactions between renin angiotensin system and advanced glycation in the kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2005 , 16, 2976-84	12.7	118
69	Advanced glycation of apolipoprotein A-I impairs its anti-atherogenic properties. <i>Diabetologia</i> , 2007 , 50, 1770-9	10.3	112
68	Advanced glycation end products are direct modulators of β cell function. <i>Diabetes</i> , 2011 , 60, 2523-32	0.9	111
67	Dietary Advanced Glycation End Products and Risk Factors for Chronic Disease: A Systematic Review of Randomised Controlled Trials. <i>Nutrients</i> , 2016 , 8, 125	6.7	107
66	Combination therapy with the advanced glycation end product cross-link breaker, alagebrium, and angiotensin converting enzyme inhibitors in diabetes: synergy or redundancy?. <i>Endocrinology</i> , 2007 , 148, 886-95	4.8	99
65	Ubiquinone (coenzyme Q10) prevents renal mitochondrial dysfunction in an experimental model of type 2 diabetes. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 716-723	7.8	91
64	NADPH Oxidase Nox5 Accelerates Renal Injury in Diabetic Nephropathy. <i>Diabetes</i> , 2017 , 66, 2691-2703	0.9	88
63	Disparate effects on renal and oxidative parameters following RAGE deletion, AGE accumulation inhibition, or dietary AGE control in experimental diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2010 , 298, F763-70	4.3	88
62	Dietary Advanced Glycation End Products: Digestion, Metabolism and Modulation of Gut Microbial Ecology. <i>Nutrients</i> , 2019 , 11,	6.7	85

61	Effect of diet-derived advanced glycation end products on inflammation. <i>Nutrition Reviews</i> , 2015 , 73, 737-59	6.4	85
60	Targeted reduction of advanced glycation improves renal function in obesity. <i>Kidney International</i> , 2011 , 80, 190-8	9.9	83
59	Cardiac inflammation associated with a Western diet is mediated via activation of RAGE by AGEs. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E323-30	6	83
58	Antiatherosclerotic and renoprotective effects of ebselen in the diabetic apolipoprotein E/GPx1-double knockout mouse. <i>Diabetes</i> , 2010 , 59, 3198-207	0.9	81
57	Glucose-induced release of tumour necrosis factor-alpha from human placental and adipose tissues in gestational diabetes mellitus. <i>Diabetic Medicine</i> , 2001 , 18, 921-7	3.5	79
56	Nox-4 deletion reduces oxidative stress and injury by PKC-associated mechanisms in diabetic nephropathy. <i>Physiological Reports</i> , 2014 , 2, e12192	2.6	74
55	Mapping time-course mitochondrial adaptations in the kidney in experimental diabetes. <i>Clinical Science</i> , 2016 , 130, 711-20	6.5	68
54	Advanced glycation end-products induce vascular dysfunction via resistance to nitric oxide and suppression of endothelial nitric oxide synthase. <i>Journal of Hypertension</i> , 2010 , 28, 780-8	1.9	64
53	Deficiency of Prebiotic Fiber and Insufficient Signaling Through Gut Metabolite-Sensing Receptors Leads to Cardiovascular Disease. <i>Circulation</i> , 2020 , 141, 1393-1403	16.7	58
52	Targeting Mitochondria and Reactive Oxygen Species-Driven Pathogenesis in Diabetic Nephropathy. <i>Review of Diabetic Studies</i> , 2015 , 12, 134-56	3.6	58
51	Circulating high-molecular-weight RAGE ligands activate pathways implicated in the development of diabetic nephropathy. <i>Kidney International</i> , 2010 , 78, 287-95	9.9	58
50	Effect of dietary prebiotic supplementation on advanced glycation, insulin resistance and inflammatory biomarkers in adults with pre-diabetes: a study protocol for a double-blind placebo-controlled randomised crossover clinical trial. <i>BMC Endocrine Disorders</i> , 2014 , 14, 55	3.3	57
49	Receptor for AGEs (RAGE) blockade may exert its renoprotective effects in patients with diabetic nephropathy via induction of the angiotensin II type 2 (AT2) receptor. <i>Diabetologia</i> , 2010 , 53, 2442-51	10.3	55
48	Challenging the dogma of mitochondrial reactive oxygen species overproduction in diabetic kidney disease. <i>Kidney International</i> , 2016 , 90, 272-279	9.9	51
47	Repression of oxidant-induced nuclear factor-kappaB activity mediates placental cytokine responses in gestational diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 3585-94	5.6	48
46	Oxidative stress and advanced glycation in diabetic nephropathy. <i>Annals of the New York Academy of Sciences</i> , 2008 , 1126, 190-3	6.5	46
45	Advanced glycation end products augment experimental hepatic fibrosis. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2013 , 28, 369-76	4	40
44	Receptor for advanced glycation end-products (RAGE) provides a link between genetic susceptibility and environmental factors in type 1 diabetes. <i>Diabetologia</i> , 2011 , 54, 1032-42	10.3	36

43	Modulation of the Gut Microbiota by Resistant Starch as a Treatment of Chronic Kidney Diseases: Evidence of Efficacy and Mechanistic Insights. <i>Advances in Nutrition</i> , 2019 , 10, 303-320	10	35
42	Deficiency in Apoptosis-Inducing Factor Recapitulates Chronic Kidney Disease via Aberrant Mitochondrial Homeostasis. <i>Diabetes</i> , 2016 , 65, 1085-98	0.9	34
41	Deficiency in mitochondrial complex I activity due to Ndufs6 gene trap insertion induces renal disease. <i>Antioxidants and Redox Signaling</i> , 2013 , 19, 331-43	8.4	31
40	Renal microvascular injury in diabetes: RAGE and redox signaling. <i>Antioxidants and Redox Signaling</i> , 2007 , 9, 331-42	8.4	31
39	Advanced glycation urinary protein-bound biomarkers and severity of diabetic nephropathy in man. <i>American Journal of Nephrology</i> , 2011 , 34, 347-55	4.6	30
38	Obesity associated advanced glycation end products within the human uterine cavity adversely impact endometrial function and embryo implantation competence. <i>Human Reproduction</i> , 2018 , 33, 654-665	5.7	27
37	Processed foods drive intestinal barrier permeability and microvascular diseases. <i>Science Advances</i> , 2021 , 7,	14.3	27
36	Targeting the AGE-RAGE axis improves renal function in the context of a healthy diet low in advanced glycation end-product content. <i>Nephrology</i> , 2013 , 18, 47-56	2.2	26
35	Ramipril inhibits AGE-RAGE-induced matrix metalloproteinase-2 activation in experimental diabetic nephropathy. <i>Diabetology and Metabolic Syndrome</i> , 2014 , 6, 86	5.6	24
34	Stirring the Pot: Can Dietary Modification Alleviate the Burden of CKD?. <i>Nutrients</i> , 2017 , 9,	6.7	24
33	Advanced glycation end products (AGEs) are cross-sectionally associated with insulin secretion in healthy subjects. <i>Amino Acids</i> , 2014 , 46, 321-6	3.5	23
32	Use of Readily Accessible Inflammatory Markers to Predict Diabetic Kidney Disease. <i>Frontiers in Endocrinology</i> , 2018 , 9, 225	5.7	20
31	Delineating a role for the mitochondrial permeability transition pore in diabetic kidney disease by targeting cyclophilin D. <i>Clinical Science</i> , 2020 , 134, 239-259	6.5	20
30	Complement C5a Induces Renal Injury in Diabetic Kidney Disease by Disrupting Mitochondrial Metabolic Agility. <i>Diabetes</i> , 2020 , 69, 83-98	0.9	20
29	Glucose homeostasis can be differentially modulated by varying individual components of a western diet. <i>Journal of Nutritional Biochemistry</i> , 2013 , 24, 1251-7	6.3	18
28	Preservation of kidney function with combined inhibition of NADPH oxidase and angiotensin-converting enzyme in diabetic nephropathy. <i>American Journal of Nephrology</i> , 2010 , 32, 73-82	4.6	18
27	Association between habitual dietary and lifestyle behaviours and skin autofluorescence (SAF), a marker of tissue accumulation of advanced glycation endproducts (AGEs), in healthy adults. <i>European Journal of Nutrition</i> , 2018 , 57, 2209-2216	5.2	17
26	Advanced glycation end products as environmental risk factors for the development of type 1 diabetes. <i>Current Drug Targets</i> , 2012 , 13, 526-40	3	17

25	Increased liver AGEs induce hepatic injury mediated through an OST48 pathway. <i>Scientific Reports</i> , 2017 , 7, 12292	4.9	16
24	Serum carboxymethyllysine concentrations are reduced in diabetic men with abdominal aortic aneurysms: Health In Men Study. <i>Journal of Vascular Surgery</i> , 2009 , 50, 626-31	3.5	13
23	Gut microbiome, prebiotics, intestinal permeability and diabetes complications. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2021 , 35, 101507	6.5	12
22	The Mitochondria-Targeted Methylglyoxal Sequestering Compound, MitoGamide, Is Cardioprotective in the Diabetic Heart. <i>Cardiovascular Drugs and Therapy</i> , 2019 , 33, 669-674	3.9	11
21	Temporal increases in urinary carboxymethyllysine correlate with albuminuria development in diabetes. <i>American Journal of Nephrology</i> , 2011 , 34, 9-17	4.6	11
20	Perinatal exposure to high dietary advanced glycation end products in transgenic NOD8.3 mice leads to pancreatic beta cell dysfunction. <i>Islets</i> , 2018 , 10, 10-24	2	11
19	RAGE Deletion Confers Renoprotection by Reducing Responsiveness to Transforming Growth Factor- β and Increasing Resistance to Apoptosis. <i>Diabetes</i> , 2018 , 67, 960-973	0.9	9
18	Can Targeting the Incretin Pathway Dampen RAGE-Mediated Events in Diabetic Nephropathy?. <i>Current Drug Targets</i> , 2016 , 17, 1252-64	3	8
17	High-intensity training induces non-stoichiometric changes in the mitochondrial proteome of human skeletal muscle without reorganisation of respiratory chain content. <i>Nature Communications</i> , 2021 , 12, 7056	17.4	7
16	Can advanced glycation end product inhibitors modulate more than one pathway to enhance renoprotection in diabetes?. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1043, 750-8	6.5	5
15	Confirmation of the Cardioprotective Effect of MitoGamide in the Diabetic Heart. <i>Cardiovascular Drugs and Therapy</i> , 2020 , 34, 823-834	3.9	5
14	Training-induced bioenergetic improvement in human skeletal muscle is associated with non-stoichiometric changes in the mitochondrial proteome without reorganization of respiratory chain content		4
13	Intravascular Follistatin gene delivery improves glycemic control in a mouse model of type 2 diabetes. <i>FASEB Journal</i> , 2020 , 34, 5697-5714	0.9	3
12	Exploring the role of the metabolite-sensing receptor GPR109a in diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2020 , 318, F835-F842	4.3	3
11	Targeted deletion of nicotinamide adenine dinucleotide phosphate oxidase 4 from proximal tubules is dispensable for diabetic kidney disease development. <i>Nephrology Dialysis Transplantation</i> , 2021 , 36, 988-997	4.3	3
10	Mutation of regulatory phosphorylation sites in PFKFB2 worsens renal fibrosis. <i>Scientific Reports</i> , 2020 , 10, 14531	4.9	3
9	Renal ACE2 (Angiotensin-Converting Enzyme 2) Expression Is Modulated by Dietary Fiber Intake, Gut Microbiota, and Their Metabolites. <i>Hypertension</i> , 2021 , 77, e53-e55	8.5	3
8	Globally elevating the AGE clearance receptor, OST48, does not protect against the development of diabetic kidney disease, despite improving insulin secretion. <i>Scientific Reports</i> , 2019 , 9, 13664	4.9	2

7	Can you reduce your AGE?: Strategies to prevent AGE accumulation in diabetes. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2007 , 4, 85-92		2
6	Methods in renal research: Measurement of autophagic flux in the renal cortex ex vivo. <i>Nephrology</i> , 2018 , 23, 815-820	2.2	1
5	The Devil's in the Detail: The Importance of Specific, Descriptive Language for Reproducibility in Nutrition Science. <i>Journal of Renal Nutrition</i> , 2020 , 30, 274-275	3	0
4	The AGE receptor, OST48 drives podocyte foot process effacement and basement membrane expansion (alters structural composition). <i>Endocrinology, Diabetes and Metabolism</i> , 2021 , 4, e00278	2.7	0
3	SOD2 in skeletal muscle: New insights from an inducible deletion model. <i>Redox Biology</i> , 2021 , 47, 102135	1.3	0
2	Reduced Growth, Altered Gut Microbiome and Metabolite Profile, and Increased Chronic Kidney Disease Risk in Young Pigs Consuming a Diet Containing Highly Resistant Protein.. <i>Frontiers in Nutrition</i> , 2022 , 9, 816749	6.2	0
1	Mitochondrial Fission/Fusion and Disease 2016 , 1-7		