

Gavin Iain Welsh

List of Publications by Year in descending order

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69
papers

3,770
citations

159358

30
h-index

128067

60
g-index

69
all docs

69
docs citations

69
times ranked

5022
citing authors

#	ARTICLE	IF	CITATIONS
1	Insulin Signaling to the Glomerular Podocyte Is Critical for Normal Kidney Function. <i>Cell Metabolism</i> , 2010, 12, 329-340.	7.2	376
2	Regulation of eukaryotic initiation factor eIF2B: glycogen synthase kinase-3 phosphorylates a conserved serine which undergoes dephosphorylation in response to insulin. <i>FEBS Letters</i> , 1998, 421, 125-130.	1.3	264
3	The Human Glomerular Podocyte Is a Novel Target for Insulin Action. <i>Diabetes</i> , 2005, 54, 3095-3102.	0.3	256
4	The podocyte cytoskeleton is a key to a functioning glomerulus in health and disease. <i>Nature Reviews Nephrology</i> , 2012, 8, 14-21.	4.1	208
5	Simultaneous Sequencing of 24 Genes Associated with Steroid-Resistant Nephrotic Syndrome. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013, 8, 637-648.	2.2	152
6	Saturated fatty acids induce insulin resistance in human podocytes: implications for diabetic nephropathy. <i>Nephrology Dialysis Transplantation</i> , 2009, 24, 3288-3296.	0.4	134
7	GSK3: a SHAGGY frog story. <i>Trends in Cell Biology</i> , 1996, 6, 274-279.	3.6	133
8	Nephrin Is Critical for the Action of Insulin on Human Glomerular Podocytes. <i>Diabetes</i> , 2007, 56, 1127-1135.	0.3	132
9	Molecular and Cellular Events Mediating Glomerular Podocyte Dysfunction and Depletion in Diabetes Mellitus. <i>Frontiers in Endocrinology</i> , 2014, 5, 151.	1.5	121
10	VEGF regulates local inhibitory complement proteins in the eye and kidney. <i>Journal of Clinical Investigation</i> , 2016, 127, 199-214.	3.9	121
11	Matrix metalloproteinase 9-mediated shedding of syndecan 4 in response to tumor necrosis factor α : a contributor to endothelial cell glycocalyx dysfunction. <i>FASEB Journal</i> , 2014, 28, 4686-4699.	0.2	111
12	Role for the microtubule cytoskeleton in GLUT4 vesicle trafficking and in the regulation of insulin-stimulated glucose uptake. <i>Biochemical Journal</i> , 2000, 352, 267-276.	1.7	111
13	Hemopexin Induces Nephrin-Dependent Reorganization of the Actin Cytoskeleton in Podocytes. <i>Journal of the American Society of Nephrology: JASN</i> , 2008, 19, 2140-2149.	3.0	106
14	Nephrin is a signature molecule of the glomerular podocyte?. <i>Journal of Pathology</i> , 2010, 220, 328-337.	2.1	102
15	Fatty acid-induced defects in insulin signalling, in myotubes derived from children, are related to ceramide production from palmitate rather than the accumulation of intramyocellular lipid. <i>Journal of Cellular Physiology</i> , 2007, 211, 244-252.	2.0	65
16	Peptide Substrates Suitable for Assaying Glycogen Synthase Kinase-3 in Crude Cell Extracts. <i>Analytical Biochemistry</i> , 1997, 244, 16-21.	1.1	63
17	Active proteases in nephrotic plasma lead to a podocin-dependent phosphorylation of VASP in podocytes via protease activated receptor-1. <i>Journal of Pathology</i> , 2013, 229, 660-671.	2.1	62
18	TRPC6 Binds to and Activates Calpain, Independent of Its Channel Activity, and Regulates Podocyte Cytoskeleton, Cell Adhesion, and Motility. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 1910-1924.	3.0	60

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19	Nerve and Epidermal Growth Factor Induce Protein Synthesis and eIF2B Activation in PC12 Cells. <i>Journal of Biological Chemistry</i> , 1998, 273, 5536-5541.	1.6	57
20	Proteome analysis of adipogenesis. <i>Proteomics</i> , 2004, 4, 1042-1051.	1.3	57
21	Podocyte Dedifferentiation: A Specialized Process for a Specialized Cell. <i>Frontiers in Endocrinology</i> , 2014, 5, 148.	1.5	56
22	An In Vitro Model of the Glomerular Capillary Wall Using Electrospun Collagen Nanofibres in a Bioartificial Composite Basement Membrane. <i>PLoS ONE</i> , 2011, 6, e20802.	1.1	50
23	Aldosterone induces albuminuria via matrix metalloproteinase-dependent damage of the endothelial glycocalyx. <i>Kidney International</i> , 2019, 95, 94-107.	2.6	49
24	VEGFC Reduces Glomerular Albumin Permeability and Protects Against Alterations in VEGF Receptor Expression in Diabetic Nephropathy. <i>Diabetes</i> , 2019, 68, 172-187.	0.3	47
25	Glycosaminoglycan Regulation by VEGFA and VEGFC of the Glomerular Microvascular Endothelial Cell Glycocalyx in Vitro. <i>American Journal of Pathology</i> , 2013, 183, 604-616.	1.9	46
26	Prolonged exposure of mouse and human podocytes to insulin induces insulin resistance through lysosomal and proteasomal degradation of the insulin receptor. <i>Diabetologia</i> , 2017, 60, 2299-2311.	2.9	44
27	Blocking matrix metalloproteinase-mediated syndecan-4 shedding restores the endothelial glycocalyx and glomerular filtration barrier function in early diabetic kidney disease. <i>Kidney International</i> , 2020, 97, 951-965.	2.6	42
28	Rip11 is a Rab11- and AS160-RabGAP-binding protein required for insulin-stimulated glucose uptake in adipocytes. <i>Journal of Cell Science</i> , 2007, 120, 4197-4208.	1.2	40
29	TBC1D8B Loss-of-Function Mutations Lead to X-Linked Nephrotic Syndrome via Defective Trafficking Pathways. <i>American Journal of Human Genetics</i> , 2019, 104, 348-355.	2.6	40
30	Flufenamic acid is a tool for investigating TRPC6-mediated calcium signalling in human conditionally immortalised podocytes and HEK293 cells. <i>Cell Calcium</i> , 2009, 45, 384-390.	1.1	36
31	A novel assay provides sensitive measurement of physiologically relevant changes in albumin permeability in isolated human and rodent glomeruli. <i>Kidney International</i> , 2018, 93, 1086-1097.	2.6	32
32	Establishment of conditionally immortalized human glomerular mesangial cells in culture, with unique migratory properties. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 301, F1131-F1138.	1.3	30
33	IQGAP1 Interacts with Components of the Slit Diaphragm Complex in Podocytes and Is Involved in Podocyte Migration and Permeability In Vitro. <i>PLoS ONE</i> , 2012, 7, e37695.	1.1	30
34	Functional consequence of targeting protein kinase B/Akt to GLUT4 vesicles. <i>Journal of Cell Science</i> , 2002, 115, 2857-2866.	1.2	30
35	High fat feeding promotes obesity and renal inflammation and protects against post cardiopulmonary bypass acute kidney injury in swine. <i>Critical Care</i> , 2013, 17, R262.	2.5	29
36	Response to First Course of Intensified Immunosuppression in Genetically Stratified Steroid Resistant Nephrotic Syndrome. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2020, 15, 983-994.	2.2	29

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37	Carboxymethyl lysine induces EMT in podocytes through transcription factor ZEB2: Implications for podocyte depletion and proteinuria in diabetes mellitus. <i>Archives of Biochemistry and Biophysics</i> , 2016, 590, 10-19.	1.4	28
38	Effects of hypoxia and hyperoxia on the differential expression of VEGF-A isoforms and receptors in Idiopathic Pulmonary Fibrosis (IPF). <i>Respiratory Research</i> , 2018, 19, 9.	1.4	28
39	Podocytes, glucose and insulin. <i>Current Opinion in Nephrology and Hypertension</i> , 2010, 19, 379-384.	1.0	27
40	Solution fibre spinning technique for the fabrication of tuneable decellularised matrix-laden fibres and fibrous micromembranes. <i>Acta Biomaterialia</i> , 2018, 78, 111-122.	4.1	27
41	The complex interplay between kidney injury and inflammation. <i>CKJ: Clinical Kidney Journal</i> , 2021, 14, 780-788.	1.4	27
42	RNA sequencing analysis of human podocytes reveals glucocorticoid regulated gene networks targeting non-immune pathways. <i>Scientific Reports</i> , 2016, 6, 35671.	1.6	25
43	Reversal of anemia with allogenic RBC transfusion prevents post-cardiopulmonary bypass acute kidney injury in swine. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 301, F605-F614.	1.3	24
44	Phosphorylation of only serine-51 in protein synthesis initiation factor-2 is associated with inhibition of peptide-chain initiation in reticulocyte lysates. <i>Biochemical and Biophysical Research Communications</i> , 1991, 176, 993-999.	1.0	21
45	Evidence for a role for protein kinase C in the stimulation of protein synthesis by insulin in swiss 3T3 fibroblasts. <i>FEBS Letters</i> , 1993, 316, 241-246.	1.3	20
46	Podocytes Produce and Secrete Functional Complement C3 and Complement Factor H. <i>Frontiers in Immunology</i> , 2020, 11, 1833.	2.2	19
47	A Composite Hydrogel Scaffold Permits Self-Organization and Matrix Deposition by Cocultured Human Glomerular Cells. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900698.	3.9	17
48	Generating Conditionally Immortalised Podocyte Cell Lines from Wild-Type Mice. <i>Nephron</i> , 2015, 129, 128-136.	0.9	16
49	Disease causing mutations in inverted formin 2 regulate its binding to G-actin, F-actin capping protein (CapZ $\hat{I}\pm$ -1) and profilin 2. <i>Bioscience Reports</i> , 2016, 36, e00302.	1.1	16
50	IGFBP-1 expression is reduced in human type 2 diabetic glomeruli and modulates \hat{I}^2 1-integrin/FAK signalling in human podocytes. <i>Diabetologia</i> , 2021, 64, 1690-1702.	2.9	16
51	Endothelial glycocalyx is damaged in diabetic cardiomyopathy: angiopoietin 1 restores glycocalyx and improves diastolic function in mice. <i>Diabetologia</i> , 2022, 65, 879-894.	2.9	15
52	Podocyte RhoGTPases: new therapeutic targets for nephrotic syndrome?. <i>F1000Research</i> , 2019, 8, 1847.	0.8	14
53	Depot-specific effects of fatty acids on lipid accumulation in children's adipocytes. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 356-361.	1.0	13
54	A role for NPY-NPY2R signaling in albuminuric kidney disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15862-15873.	3.3	12

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55	GlomSpheres as a 3D co-culture spheroid model of the kidney glomerulus for rapid drug-screening. <i>Communications Biology</i> , 2021, 4, 1351.	2.0	12
56	The competitive nature of signal transducer and activator of transcription complex formation drives phenotype switching of T cells. <i>Immunology</i> , 2018, 153, 488-501.	2.0	11
57	Renal Consequences of Therapeutic Interventions in Premature Neonates. <i>Nephron</i> , 2019, 142, 117-124.	0.9	11
58	Cytoskeletal protein degradation in brain death donor kidneys associates with adverse posttransplant outcomes. <i>American Journal of Transplantation</i> , 2022, 22, 1073-1087.	2.6	9
59	Functional distinctions in cytosolic calcium regulation between cells of the glomerular filtration barrier. <i>Cell Calcium</i> , 2010, 48, 44-53.	1.1	8
60	A Systems Model of Phosphorylation for Inflammatory Signaling Events. <i>PLoS ONE</i> , 2014, 9, e110913.	1.1	8
61	Nuclear translocation of IQGAP1 protein upon exposure to puromycin aminonucleoside in cultured human podocytes: ERK pathway involvement. <i>Cellular Signalling</i> , 2016, 28, 1470-1478.	1.7	7
62	Metabolite Changes in Maternal and Fetal Plasma Following Spontaneous Labour at Term in Humans Using Untargeted Metabolomics Analysis: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1527.	1.2	5
63	Exploring the relevance of NUP93 variants in steroid-resistant nephrotic syndrome using next generation sequencing and a fly kidney model. <i>Pediatric Nephrology</i> , 2022, 37, 2643-2656.	0.9	5
64	An information theoretic approach to insulin sensing by human kidney podocytes. <i>Molecular and Cellular Endocrinology</i> , 2020, 518, 110976.	1.6	3
65	Kinetic regulation of multi-ligand binding proteins. <i>BMC Systems Biology</i> , 2016, 10, 32.	3.0	2
66	VEGF-A regulates glomerular endothelial cell expression of protective complement regulators involved in the pathogenesis of atypical haemolytic uraemic syndrome. <i>Immunobiology</i> , 2012, 217, 1215.	0.8	1
67	Editorial: Podocyte Pathology and Nephropathy. <i>Frontiers in Endocrinology</i> , 2015, 6, 145.	1.5	1
68	The Podocyte in Diabetic Nephropathy: Recent Advances. , 2019, , 171-182.		1
69	Proteolytic Enzymes as Biomarkers of Focal Segmental Glomerulosclerosis. <i>Drug Development Research</i> , 2013, 74, 81-91.	1.4	0