

Gareth J Mckay

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

9,526
citations

159585

30
h-index

46799

89
g-index

120
all docs

120
docs citations

120
times ranked

18049
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic studies of body mass index yield new insights for obesity biology. <i>Nature</i> , 2015, 518, 197-206.	27.8	3,823
2	New genetic loci link adipose and insulin biology to body fat distribution. <i>Nature</i> , 2015, 518, 187-196.	27.8	1,328
3	The progress in understanding and treatment of diabetic retinopathy. <i>Progress in Retinal and Eye Research</i> , 2016, 51, 156-186.	15.5	730
4	Genome-wide association meta-analysis highlights light-induced signaling as a driver for refractive error. <i>Nature Genetics</i> , 2018, 50, 834-848.	21.4	239
5	New Susceptibility Loci Associated with Kidney Disease in Type 1 Diabetes. <i>PLoS Genetics</i> , 2012, 8, e1002921.	3.5	216
6	Socioeconomic position, lifestyle habits and biomarkers of epigenetic aging: a multi-cohort analysis. <i>Aging</i> , 2019, 11, 2045-2070.	3.1	137
7	A Genome-Wide Association Study of Diabetic Kidney Disease in Subjects With Type 2 Diabetes. <i>Diabetes</i> , 2018, 67, 1414-1427.	0.6	136
8	Genome-Wide Association Study of Diabetic Kidney Disease Highlights Biology Involved in Glomerular Basement Membrane Collagen. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 2000-2016.	6.1	135
9	DNA hypermethylation and DNA hypomethylation is present at different loci in chronic kidney disease. <i>Epigenetics</i> , 2014, 9, 366-376.	2.7	133
10	Evidence of association of <i>APOE</i> with age-related macular degeneration - a pooled analysis of 15 studies. <i>Human Mutation</i> , 2011, 32, 1407-1416.	2.5	130
11	Systematic Review and Meta-Analysis of the Association Between Complement Component 3 and Age-related Macular Degeneration: A HuGE Review and Meta-Analysis. <i>American Journal of Epidemiology</i> , 2011, 173, 1365-1379.	3.4	126
12	Retinal microvascular network attenuation in Alzheimer's disease. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2015, 1, 229-235.	2.4	122
13	Development of a genotyping microarray for Usher syndrome. <i>Journal of Medical Genetics</i> , 2006, 44, 153-160.	3.2	94
14	Pigmented Paravenous Chorioretinal Atrophy Is Associated with a Mutation within the Crumbs Homolog 1 (CRB1) Gene. , 2005, 46, 322.		93
15	Variations in Apolipoprotein E Frequency With Age in a Pooled Analysis of a Large Group of Older People. <i>American Journal of Epidemiology</i> , 2011, 173, 1357-1364.	3.4	85
16	Cohort profile: design and methods in the eye and vision consortium of UK Biobank. <i>BMJ Open</i> , 2019, 9, e025077.	1.9	85
17	Prediction and Verification of miRNA Expression in Human and Rat Retinas. , 2007, 48, 3962.		79
18	Association Testing of Previously Reported Variants in a Large Case-Control Meta-analysis of Diabetic Nephropathy. <i>Diabetes</i> , 2012, 61, 2187-2194.	0.6	77

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19	<p>Vitamin E and Alzheimer&€™s disease: what do we know so far?</p>. Clinical Interventions in Aging, 2019, Volume 14, 1303-1317.	2.9	74
20	Differential Expression of Urinary Exosomal MicroRNAs miR-21-5p and miR-30b-5p in Individuals with Diabetic Kidney Disease. Scientific Reports, 2019, 9, 10900.	3.3	72
21	Chromosome 2q31.1 Associates with ESRD in Women with Type 1 Diabetes. Journal of the American Society of Nephrology: JASN, 2013, 24, 1537-1543.	6.1	66
22	Identification of benzimidazole resistance in Cladobotryum dendroides using a PCR-based method. Mycological Research, 1998, 102, 671-676.	2.5	65
23	Association Between Myopia, Ultraviolet B Radiation Exposure, Serum Vitamin D Concentrations, and Genetic Polymorphisms in Vitamin D Metabolic Pathways in a Multicountry European Study. JAMA Ophthalmology, 2017, 135, 47.	2.5	62
24	Further Assessment of the Complement Component 2 and Factor B Region Associated with Age-Related Macular Degeneration. , 2009, 50, 533.		58
25	Serum concentrations of vitamin E and carotenoids are altered in Alzheimer's disease: A case&€control study. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2017, 3, 432-439.	3.7	58
26	Automated retinal image quality assessment on the UK Biobank dataset for epidemiological studies. Computers in Biology and Medicine, 2016, 71, 67-76.	7.0	55
27	The Association Between Complement Component 2/Complement Factor B Polymorphisms and Age-related Macular Degeneration: A HuGE Review and Meta-Analysis. American Journal of Epidemiology, 2012, 176, 361-372.	3.4	54
28	Plasma Antioxidant Status in Patients with Alzheimer&€™s Disease and Cognitively Intact Elderly: A Meta-Analysis of Case-Control Studies. Journal of Alzheimer's Disease, 2018, 62, 305-317.	2.6	46
29	Genetic and Morphological Characterization of Cladobotryum Species Causing Cobweb Disease of Mushrooms. Applied and Environmental Microbiology, 1999, 65, 606-610.	3.1	43
30	Development of a Diagnostic Genetic Test for Simplex and Autosomal Recessive Retinitis Pigmentosa. Ophthalmology, 2010, 117, 2169-2177.e3.	5.2	42
31	Apolipoprotein E Genotype Is Associated with Macular Pigment Optical Density. , 2010, 51, 2636.		37
32	A PCR-based method to characterise and identify benzimidazole resistance in Helminthosporium solani. FEMS Microbiology Letters, 1997, 152, 371-378.	1.8	36
33	ARMS2 Increases the Risk of Early and Late Age-related Macular Degeneration in the European Eye Study. Ophthalmology, 2013, 120, 342-348.	5.2	36
34	Molecular Characterisation of Alternaria linicola and its Detection in Linseed. European Journal of Plant Pathology, 1999, 105, 157-166.	1.7	30
35	Genetic and Epigenetic Risk Factors for Diabetic Kidney Disease. Advances in Chronic Kidney Disease, 2014, 21, 287-296.	1.4	30
36	A Candidate Gene Association Study Identifies DAPL1 as a Female-Specific Susceptibility Locus for Age-Related Macular Degeneration (AMD). NeuroMolecular Medicine, 2015, 17, 111-120.	3.4	30

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37	Associations with Corneal Hysteresis in a Population Cohort. <i>Ophthalmology</i> , 2019, 126, 1500-1510.	5.2	29
38	Assessment of differentially methylated loci in individuals with end-stage kidney disease attributed to diabetic kidney disease: an exploratory study. <i>Clinical Epigenetics</i> , 2021, 13, 99.	4.1	29
39	Investigation of Genetic Variation in Scavenger Receptor Class B, Member 1 (SCARB1) and Association with Serum Carotenoids. <i>Ophthalmology</i> , 2013, 120, 1632-1640.	5.2	27
40	Treatment effects of renin-angiotensin aldosterone system blockade on kidney failure and mortality in chronic kidney disease patients. <i>BMC Nephrology</i> , 2017, 18, 342.	1.8	27
41	Complement component 3: an assessment of association with AMD and analysis of gene-gene and gene-environment interactions in a Northern Irish cohort. <i>Molecular Vision</i> , 2010, 16, 194-9.	1.1	27
42	Evaluation of the Retinal Vasculature in Hypertension and Chronic Kidney Disease in an Elderly Population of Irish Nuns. <i>PLoS ONE</i> , 2015, 10, e0136434.	2.5	25
43	Type 2 Diabetes in Young Females Results in Increased Serum Amyloid A and Changes to Features of High Density Lipoproteins in Both HDL ₂ and HDL ₃ . <i>Journal of Diabetes Research</i> , 2017, 2017, 1-9.	2.3	22
44	Wnt6 regulates epithelial cell differentiation and is dysregulated in renal fibrosis. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F35-F45.	2.7	21
45	Retinal microvascular parameters are not associated with reduced renal function in a study of individuals with type 2 diabetes. <i>Scientific Reports</i> , 2018, 8, 3931.	3.3	21
46	A multimodal approach to cardiovascular risk stratification in patients with type 2 diabetes incorporating retinal, genomic and clinical features. <i>Scientific Reports</i> , 2019, 9, 3591.	3.3	21
47	The effects of vitamin E supplementation on malondialdehyde as a biomarker of oxidative stress in haemodialysis patients: a systematic review and meta-analysis. <i>BMC Nephrology</i> , 2021, 22, 126.	1.8	20
48	Associations between Serum Vitamin D and Genetic Variants in Vitamin D Pathways and Age-Related Macular Degeneration in the European Eye Study. <i>Ophthalmology</i> , 2017, 124, 90-96.	5.2	19
49	Association Analysis of Dyslipidemia-Related Genes in Diabetic Nephropathy. <i>PLoS ONE</i> , 2013, 8, e58472.	2.5	19
50	Drug treatment for panic disorder with or without agoraphobia: systematic review and network meta-analysis of randomised controlled trials. <i>BMJ, The</i> , 2022, 376, e066084.	6.0	19
51	VEGF and Age-related Macular Degeneration. <i>Ophthalmology</i> , 2009, 116, 1227-1227.e3.	5.2	17
52	Dietary patterns and chronic kidney disease: a cross-sectional association in the Irish Nun Eye Study. <i>Scientific Reports</i> , 2018, 8, 6654.	3.3	17
53	Complement inhibitors for age-related macular degeneration. <i>The Cochrane Library</i> , 2014, , CD009300.	2.8	16
54	Age-Related Macular Degeneration-associated Genes in Alzheimer Disease. <i>American Journal of Geriatric Psychiatry</i> , 2015, 23, 1290-1296.	1.2	16

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55	Evaluation of long-term intravitreal anti-vascular endothelial growth factor injections on renal function in patients with and without diabetic kidney disease. <i>BMC Nephrology</i> , 2019, 20, 478.	1.8	16
56	Evaluation of the cost-utility of phosphate binders as a treatment option for hyperphosphatemia in chronic kidney disease patients: a systematic review and meta-analysis of the economic evaluations. <i>European Journal of Health Economics</i> , 2021, 22, 571-584.	2.8	16
57	Genome-wide meta-analysis and omics integration identifies novel genes associated with diabetic kidney disease. <i>Diabetologia</i> , 2022, 65, 1495-1509.	6.3	16
58	The association between macular pigment optical density and CFH, ARMS2, C2/BF, and C3 genotype. <i>Experimental Eye Research</i> , 2011, 93, 592-598.	2.6	15
59	A PCR-based method to characterise and identify benzimidazole resistance in <i>Helminthosporium solani</i> . <i>FEMS Microbiology Letters</i> , 2006, 152, 371-378.	1.8	14
60	Association analysis of Notch pathway signalling genes in diabetic nephropathy. <i>Diabetologia</i> , 2011, 54, 334-338.	6.3	14
61	TGF β 2 and CCN2/CTGF mediate actin related gene expression by differential E2F1/CREB activation. <i>BMC Genomics</i> , 2013, 14, 525.	2.8	14
62	Association of reduced inner retinal thicknesses with chronic kidney disease. <i>BMC Nephrology</i> , 2020, 21, 37.	1.8	14
63	Association of low plasma antioxidant levels with all-cause mortality and coronary events in healthy middle-aged men from France and Northern Ireland in the PRIME study. <i>European Journal of Nutrition</i> , 2021, 60, 2631-2641.	3.9	14
64	Evaluation of coronary artery disease as a risk factor for reticular pseudodrusen. <i>British Journal of Ophthalmology</i> , 2018, 102, 483-489.	3.9	13
65	Economic evaluation of direct oral anticoagulants (DOACs) versus vitamin K antagonists (VKAs) for stroke prevention in patients with atrial fibrillation: a systematic review and meta-analysis. <i>BMJ Evidence-Based Medicine</i> , 2022, 27, 215-223.	3.5	13
66	Automated quantification of retinal vessel morphometry in the UK biobank cohort. , 2017, , .		12
67	A novel diagnostic test detects a low frequency of the hemicentin Gln5345Arg variant among Northern Irish age related macular degeneration patients. <i>Molecular Vision</i> , 2004, 10, 682-7.	1.1	12
68	Association Analysis of Canonical Wnt Signalling Genes in Diabetic Nephropathy. <i>PLoS ONE</i> , 2011, 6, e23904.	2.5	11
69	Haplotype association analysis of genes within the WNT signalling pathways in diabetic nephropathy. <i>BMC Nephrology</i> , 2013, 14, 126.	1.8	11
70	Validation of differentially methylated microRNAs identified from an epigenome-wide association study; Sanger and next generation sequencing approaches. <i>BMC Research Notes</i> , 2018, 11, 767.	1.4	11
71	Deep-Learning-Based Pre-Diagnosis Assessment Module for Retinal Photographs: A Multicenter Study. <i>Translational Vision Science and Technology</i> , 2021, 10, 16.	2.2	11
72	A PCR-based method to distinguish fungi of the rice sheath-blight complex, <i>Rhizoctonia solani</i> , <i>R. oryzae</i> and <i>R. oryzae-sativae</i> . <i>FEMS Microbiology Letters</i> , 1998, 162, 289-294.	1.8	10

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73	Retinal Vascular Caliber, Iris Color, and Age-Related Macular Degeneration in the Irish Nun Eye Study. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 382-387.	3.3	10
74	Serum- and HDL3-serum amyloid A and HDL3-LCAT activity are influenced by increased CVD-burden. <i>Atherosclerosis</i> , 2016, 244, 172-178.	0.8	10
75	Association between hypertension and retinal vascular features in ultra-widefield fundus imaging. <i>Open Heart</i> , 2020, 7, e001124.	2.3	10
76	Molecular comparison of <i>Scytalidium thermophilum</i> isolates using RAPD and ITS nucleotide sequence analyses. <i>Mycological Research</i> , 2000, 104, 1431-1438.	2.5	9
77	Bioinformatic Evaluation of Transcriptional Regulation of WNT Pathway Genes with reference to Diabetic Nephropathy. <i>Journal of Diabetes Research</i> , 2016, 2016, 1-9.	2.3	9
78	Association of renal impairment with cognitive dysfunction in the Northern Ireland Cohort for the Longitudinal Study of Ageing (NICOLA). <i>Nephrology Dialysis Transplantation</i> , 2021, 36, 1492-1499.	0.7	9
79	The Role of Epigenetic Clocks in Explaining Educational Inequalities in Mortality: A Multicohort Study and Meta-analysis. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 1750-1759.	3.6	9
80	Association of retinal venular tortuosity with impaired renal function in the Northern Ireland Cohort for the Longitudinal Study of Ageing. <i>BMC Nephrology</i> , 2020, 21, 382.	1.8	8
81	A systematic review and participant-level meta-analysis found little association of retinal microvascular caliber with reduced kidney function. <i>Kidney International</i> , 2021, 99, 696-706.	5.2	8
82	Interventions for great saphenous vein reflux: network meta-analysis of randomized clinical trials. <i>British Journal of Surgery</i> , 2021, 108, 244-255.	0.3	8
83	Prevention of venous thromboembolism in gynecological cancer patients undergoing major abdominopelvic surgery: A systematic review and network meta-analysis. <i>Gynecologic Oncology</i> , 2021, 161, 304-313.	1.4	8
84	Causal Associations of Urate With Cardiovascular Risk Factors: Two-Sample Mendelian Randomization. <i>Frontiers in Genetics</i> , 2021, 12, 687279.	2.3	8
85	Associations of Alcohol Consumption and Smoking With Disease Risk and Neurodegeneration in Individuals With Multiple Sclerosis in the United Kingdom. <i>JAMA Network Open</i> , 2022, 5, e220902.	5.9	8
86	GENOTYPEâ€“PHENOTYPE ASSOCIATIONS IN NEOVASCULAR AGE-RELATED MACULAR DEGENERATION. <i>Retina</i> , 2012, 32, 1950-1958.	1.7	7
87	Serum amyloid A levels are associated with polymorphic variants in the serum amyloid A 1 and 2 genes. <i>Irish Journal of Medical Science</i> , 2019, 188, 1175-1183.	1.5	7
88	Dietary patterns were not associated with age-related macular degeneration: a cross-sectional analysis in the Irish Nun Eye Study. <i>Irish Journal of Medical Science</i> , 2019, 188, 1005-1012.	1.5	7
89	Investigation of associations between retinal microvascular parameters and albuminuria in UK Biobank: a cross-sectional case-control study. <i>BMC Nephrology</i> , 2021, 22, 72.	1.8	7
90	Retinal microvascular parameters are not significantly associated with mild cognitive impairment in the Northern Ireland Cohort for the Longitudinal Study of Ageing. <i>BMC Neurology</i> , 2021, 21, 112.	1.8	7

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91	Risk-benefit assessment of onlay and retrorectus mesh augmentation for incisional hernia prophylaxis: A secondary analysis from network meta-analysis. <i>International Journal of Surgery</i> , 2021, 92, 106053.	2.7	7
92	Preparation of planar retinal specimens: verification by histology, mRNA profiling, and proteome analysis. <i>Molecular Vision</i> , 2004, 10, 240-7.	1.1	7
93	Short-term Efficacy and Safety of Biological Tear Substitutes and Topical Secretagogues for Dry Eye Disease: A Systematic Review and Network Meta-analysis. <i>Cornea</i> , 2022, 41, 1137-1149.	1.7	7
94	Estimated Glomerular Filtration Rate is not Associated with Alzheimer's Disease in a Northern Ireland Cohort. <i>Journal of Alzheimer's Disease</i> , 2017, 60, 1379-1385.	2.6	6
95	Simple non-mydratiac retinal photography is feasible and demonstrates retinal microvascular dilation in Chronic Obstructive Pulmonary Disease (COPD). <i>PLoS ONE</i> , 2020, 15, e0227175.	2.5	5
96	Dietary patterns associated with renal impairment in the Northern Ireland Cohort for the Longitudinal Study of Ageing (NICOLA). <i>European Journal of Nutrition</i> , 2021, 60, 4045-4054.	3.9	5
97	Efficacy and safety of conventional antiviral agents in preventive strategies for cytomegalovirus infection after kidney transplantation: a systematic review and network meta-analysis. <i>Transplant International</i> , 2021, 34, 2720-2734.	1.6	5
98	Diabetic Microvascular Complications: Novel Risk Factors, Biomarkers, and Risk Prediction Models. <i>Journal of Diabetes Research</i> , 2016, 2016, 1-2.	2.3	4
99	Dietary Patterns and Retinal Vessel Caliber in the Irish Nun Eye Study. <i>Journal of Nutrition, Health and Aging</i> , 2018, 22, 751-758.	3.3	4
100	Association of reduced retinal arteriolar tortuosity with depression in older participants from the Northern Ireland Cohort for the Longitudinal Study of Ageing. <i>BMC Geriatrics</i> , 2021, 21, 62.	2.7	4
101	External validation of prognostic models for chronic kidney disease among type 2 diabetes. <i>Journal of Nephrology</i> , 2022, , 1.	2.0	4
102	Neoadjuvant Treatment with HER2-Targeted Therapies in HER2-Positive Breast Cancer: A Systematic Review and Network Meta-Analysis. <i>Cancers</i> , 2022, 14, 523.	3.7	4
103	Mesh-fixation technique for inguinal hernia repair: umbrella review. <i>BJS Open</i> , 2022, 6, .	1.7	4
104	Serum xanthophyll carotenoids are associated with estimated glomerular filtration rate in an aged cohort. <i>Scientific Reports</i> , 2019, 9, 17068.	3.3	3
105	Comparison of treatment efficacy between 100% platelet-rich plasma and 100% serum eye drops in moderate-to-severe dry eye disease: a randomised controlled trial protocol. <i>BMJ Open</i> , 2021, 11, e048479.	1.9	3
106	Quantitative Parameters from OCT Angiography in Patients with Diabetic Retinopathy and in Those with Only Peripheral Retinopathy Compared with Control Participants. <i>Ophthalmology Science</i> , 2021, 1, 100030.	2.5	2
107	Evaluation of the effectiveness of behavioural economic incentive programmes for the promotion of a healthy diet and physical activity: a protocol for a systematic review and network meta-analysis. <i>BMJ Open</i> , 2020, 10, e046035.	1.9	2
108	Comparative efficacy and safety of pharmacologic interventions to prevent mother-to-child transmission of hepatitis B virus: a systematic review and network meta-analysis. <i>American Journal of Obstetrics and Gynecology</i> , 2022, 227, 163-172.	1.3	2

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109	Retinal Biomarker Discovery for Dementia in an Elderly Diabetic Population. Lecture Notes in Computer Science, 2017, , 150-158.	1.3	1
110	Midline incisional hernia prophylaxis using synthetic mesh in an emergency or urgent gastrointestinal tract surgery: a protocol for multicentre randomised clinical trial. BMJ Open, 2021, 11, e045541.	1.9	1
111	Five Authors Reply. American Journal of Epidemiology, 2013, 177, 1024-1025.	3.4	0
112	Minor allele frequency of myeloproliferative neoplasm mutations in the Irish blood donor population. Hematological Oncology, 2016, 34, 161-164.	1.7	0
113	Overview of Intersection of Genomics of Cardiometabolic Disease and Other Disease States, Such as Eye Health (Macular Degeneration). , 2016, , 283-305.		0
114	Retinal microvascular parameters are not associated with diabetes in the Northern Ireland Cohort for the Longitudinal Study of Ageing. Irish Journal of Medical Science, 2021, , 1.	1.5	0
115	Retinal Thickness Is Not Associated with Renal Function in Diabetes. Diabetes, 2018, 67, .	0.6	0