

# David A Simpson

## List of Publications by Year in descending order

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44  
papers

3,199  
citations

279487

23  
h-index

329751

37  
g-index

46  
all docs

46  
docs citations

46  
times ranked

7900  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of SARS-CoV-2 Evolution in Paediatric Primary Airway Epithelial Cell Cultures Compared with Vero-Derived Cell Lines. <i>Viruses</i> , 2022, 14, 325.	1.5	5
2	Mini-XT, a miniaturized tagmentation-based protocol for efficient sequencing of SARS-CoV-2. <i>Journal of Translational Medicine</i> , 2022, 20, 105.	1.8	6
3	Short and long-term effect of dexamethasone on the transcriptome profile of primary human trabecular meshwork cells in vitro. <i>Scientific Reports</i> , 2022, 12, 8299.	1.6	3
4	A Multi-Omics Approach Identifies Key Regulatory Pathways Induced by Long-Term Zinc Supplementation in Human Primary Retinal Pigment Epithelium. <i>Nutrients</i> , 2020, 12, 3051.	1.7	15
5	Phexpo: a package for bidirectional enrichment analysis of phenotypes and chemicals. <i>JAMIA Open</i> , 2020, 3, 173-177.	1.0	1
6	Debunking the Myth of the Endogenous Antiangiogenic Vegfxxx transcripts. <i>Trends in Endocrinology and Metabolism</i> , 2020, 31, 398-409.	3.1	5
7	Single-cell transcriptomic profiling provides insights into retinal endothelial barrier properties. <i>Molecular Vision</i> , 2020, 26, 766-779.	1.1	2
8	Differential Expression of Urinary Exosomal MicroRNAs miR-21-5p and miR-30b-5p in Individuals with Diabetic Kidney Disease. <i>Scientific Reports</i> , 2019, 9, 10900.	1.6	72
9	A comparison of RNA extraction and sequencing protocols for detection of small RNAs in plasma. <i>BMC Genomics</i> , 2019, 20, 446.	1.2	55
10	Pathways, Processes, and Candidate Drugs Associated with a Hoxa Cluster-Dependency Model of Leukemia. <i>Cancers</i> , 2019, 11, 2036.	1.7	5
11	Enhanced Function of Induced Pluripotent Stem Cell-Derived Endothelial Cells Through ESM1 Signaling. <i>Stem Cells</i> , 2019, 37, 226-239.	1.4	25
12	MicroRNA-containing extracellular vesicles released from endothelial colony-forming cells modulate angiogenesis during ischaemic retinopathy. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 3405-3419.	1.6	35
13	RNA-Sequencing data supports the existence of novel VEGFA splicing events but not of VEGFAXxxb isoforms. <i>Scientific Reports</i> , 2017, 7, 58.	1.6	16
14	TRPV2 Channels Contribute to Stretch-Activated Cation Currents and Myogenic Constriction in Retinal Arterioles. , 2016, 57, 5637.		35
15	Considerations for optimization of microRNA PCR assays for molecular diagnosis. <i>Expert Review of Molecular Diagnostics</i> , 2016, 16, 407-414.	1.5	35
16	Next-generation sequencing-based molecular diagnosis of 82 retinitis pigmentosa probands from Northern Ireland. <i>Human Genetics</i> , 2015, 134, 217-230.	1.8	85
17	Whole-mitochondrial genome sequencing in primary open-angle glaucoma using massively parallel sequencing identifies novel and known pathogenic variants. <i>Genetics in Medicine</i> , 2015, 17, 279-284.	1.1	38
18	Mutational Analysis of the <i>Rhodopsin</i> Gene in Sector Retinitis Pigmentosa. <i>Ophthalmic Genetics</i> , 2015, 36, 239-243.	0.5	14

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19	Small RNAs from plants, bacteria and fungi within the order Hypocreales are ubiquitous in human plasma. <i>BMC Genomics</i> , 2014, 15, 933.	1.2	64
20	Next generation sequencing-based molecular diagnosis of retinitis pigmentosa: identification of a novel genotype-phenotype correlation and clinical refinements. <i>Human Genetics</i> , 2014, 133, 331-345.	1.8	204
21	Enrichment of pathogenic alleles in the brittle cornea gene, ZNF469, in keratoconus. <i>Human Molecular Genetics</i> , 2014, 23, 5527-5535.	1.4	56
22	Mutational Analysis of <i>MIR184</i> in Sporadic Keratoconus and Myopia. , 2013, 54, 5266.		73
23	Ex Vivo Expansion of Human outgrowth Endothelial Cells Leads to IL-8-Mediated Replicative Senescence and Impaired Vasoreparative Function. <i>Stem Cells</i> , 2013, 31, 1657-1668.	1.4	56
24	Mutational Spectrum of the <i>ZEB1</i> Gene in Corneal Dystrophies Supports a Genotype-Phenotype Correlation. , 2013, 54, 3215.		65
25	Distinctive Profile of IsomiR Expression and Novel MicroRNAs in Rat Heart Left Ventricle. <i>PLoS ONE</i> , 2013, 8, e65809.	1.1	34
26	A novel dual-fluorescence strategy for functionally validating microRNA targets in 3' untranslated regions: regulation of the inward rectifier potassium channel Kir2.1 by miR-212. <i>Biochemical Journal</i> , 2012, 448, 103-113.	1.7	23
27	Pharmacological Profiling of Store-Operated Ca <sup>2+</sup> Entry in Retinal Arteriolar Smooth Muscle. <i>Microcirculation</i> , 2012, 19, 586-597.	1.0	5
28	Selective extracellular vesicle-mediated export of an overlapping set of microRNAs from multiple cell types. <i>BMC Genomics</i> , 2012, 13, 357.	1.2	445
29	Deep sequencing reveals predominant expression of miR-21 amongst the small non-coding RNAs in retinal microvascular endothelial cells. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 2098-2111.	1.2	62
30	VEGF-Induced Retinal Angiogenic Signaling Is Critically Dependent on Ca <sup>2+</sup> Signaling by Ca <sup>2+</sup> /Calmodulin-Dependent Protein Kinase II. , 2011, 52, 3103.		35
31	Mutation Altering the miR-184 Seed Region Causes Familial Keratoconus with Cataract. <i>American Journal of Human Genetics</i> , 2011, 89, 628-633.	2.6	234
32	Molecular diagnosis for heterogeneous genetic diseases with targeted high-throughput DNA sequencing applied to retinitis pigmentosa. <i>Journal of Medical Genetics</i> , 2011, 48, 145-151.	1.5	81
33	MicroRNA-155 Promotes Resolution of Hypoxia-Inducible Factor 1 $\alpha$ Activity during Prolonged Hypoxia. <i>Molecular and Cellular Biology</i> , 2011, 31, 4087-4096.	1.1	253
34	Prediction of microRNAs affecting mRNA expression during retinal development. <i>BMC Developmental Biology</i> , 2010, 10, 1.	2.1	86
35	Molecular analysis of endothelial progenitor cell (EPC) subtypes reveals two distinct cell populations with different identities. <i>BMC Medical Genomics</i> , 2010, 3, 18.	0.7	274
36	Diabetes Downregulates Large-Conductance Ca <sup>2+</sup> -Activated Potassium $\beta$ 1 Channel Subunit in Retinal Arteriolar Smooth Muscle. <i>Circulation Research</i> , 2007, 100, 703-711.	2.0	129

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37	Rod Photoreceptor Loss in Rho <sup>-/-</sup> Mice Reduces Retinal Hypoxia and Hypoxia-Regulated Gene Expression. , 2006, 47, 5553.		36
38	Retinopathy Is Reduced during Experimental Diabetes in a Mouse Model of Outer Retinal Degeneration. , 2006, 47, 5561.		117
39	Machine learning approaches to supporting the identification of photoreceptor-enriched genes based on expression data. BMC Bioinformatics, 2006, 7, 116.	1.2	9
40	Characterisation of the advanced glycation endproduct receptor complex in the retinal pigment epithelium. British Journal of Ophthalmology, 2005, 89, 107-112.	2.1	35
41	Role of Vascular Endothelial Growth Factor and Placental Growth Factors During Retinal Vascular Development and Hyaloid Regression. , 2003, 44, 839.		70
42	Expression of the 67kDa Laminin Receptor (67LR) during Retinal Development: Correlations with Angiogenesis. Experimental Eye Research, 2001, 73, 81-92.	1.2	20
43	Retinal VEGF mRNA measured by SYBR green I fluorescence: A versatile approach to quantitative PCR. Molecular Vision, 2000, 6, 178-83.	1.1	216
44	Expression of the VEGF Gene Family during Retinal Vaso-Obliteration and Hypoxia. Biochemical and Biophysical Research Communications, 1999, 262, 333-340.	1.0	65