David A Simpson

List of Publications by Year
in descending order

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	Selective extracellular vesicle-mediated export of an overlapping set of microRNAs from multiple cell types. BMC Genomics, 2012, 13, 357.	1.2	445
2	Molecular analysis of endothelial progenitor cell (EPC) subtypes reveals two distinct cell populations with different identities. BMC Medical Genomics, 2010, 3, 18.	0.7	274
3	MicroRNA-155 Promotes Resolution of Hypoxia-Inducible Factor 1Î± Activity during Prolonged Hypoxia. Molecular and Cellular Biology, 2011, 31, 4087-4096.	1.1	253
4	Mutation Altering the miR-184 Seed Region Causes Familial Keratoconus with Cataract. American Journal of Human Genetics, 2011, 89, 628-633.	2.6	234
5	Retinal VEGF mRNA measured by SYBR green I fluorescence: A versatile approach to quantitative PCR. Molecular Vision, 2000, 6, 178-83.	1.1	216
6	Next generation sequencing-based molecular diagnosis of retinitis pigmentosa: identification of a novel genotype-phenotype correlation and clinical refinements. Human Genetics, 2014, 133, 331-345.	1.8	204
7	Diabetes Downregulates Large-Conductance Ca2+-Activated Potassium Î²1 Channel Subunit in Retinal Arteriolar Smooth Muscle. Circulation Research, 2007, 100, 703-711.	2.0	129
8	Retinopathy Is Reduced during Experimental Diabetes in a Mouse Model of Outer Retinal Degeneration. , 2006, 47, 5561.		117
9	Prediction of microRNAs affecting mRNA expression during retinal development. BMC Developmental Biology, 2010, 10, 1.	2.1	86
10	Next-generation sequencing-based molecular diagnosis of 82 retinitis pigmentosa probands from Northern Ireland. Human Genetics, 2015, 134, 217-230.	1.8	85
11	Molecular diagnosis for heterogeneous genetic diseases with targeted high-throughput DNA sequencing applied to retinitis pigmentosa. Journal of Medical Genetics, 2011, 48, 145-151.	1.5	81
12	Mutational Analysis ofMIR184in Sporadic Keratoconus and Myopia. , 2013, 54, 5266.		73
13	Differential Expression of Urinary Exosomal MicroRNAs miR-21-5p and miR-30b-5p in Individuals with Diabetic Kidney Disease. Scientific Reports, 2019, 9, 10900.	1.6	72
14	Role of Vascular Endothelial Growth Factor and Placental Growth Factors During Retinal Vascular Development and Hyaloid Regression. , 2003, 44, 839.		70
15	Expression of the VEGF Gene Family during Retinal Vaso-Obliteration and Hypoxia. Biochemical and Biophysical Research Communications, 1999, 262, 333-340.	1.0	65
16	Mutational Spectrum of theZEB1Gene in Corneal Dystrophies Supports a Genotypeâ€“Phenotype Correlation. , 2013, 54, 3215.		65
17	Small RNAs from plants, bacteria and fungi within the order Hypocreales are ubiquitous in human plasma. BMC Genomics, 2014, 15, 933.	1.2	64
18	Deep sequencing reveals predominant expression of miRâ€21 amongst the small nonâ€coding RNAs in retinal microvascular endothelial cells. Journal of Cellular Biochemistry, 2012, 113, 2098-2111.	1.2	62

#	Article	IF	Citations
19	Ex Vivo Expansion of Human outgrowth Endothelial Cells Leads to IL-8-Mediated Replicative Senescence and Impaired Vasoreparative Function. Stem Cells, 2013, 31, 1657-1668.	1.4	56
20	Enrichment of pathogenic alleles in the brittle cornea gene, ZNF469, in keratoconus. Human Molecular Genetics, 2014, 23, 5527-5535.	1.4	56
21	A comparison of RNA extraction and sequencing protocols for detection of small RNAs in plasma. BMC Genomics, 2019, 20, 446.	1.2	55
22	Whole-mitochondrial genome sequencing in primary open-angle glaucoma using massively parallel sequencing identifies novel and known pathogenic variants. Genetics in Medicine, 2015, 17, 279-284.	1.1	38
23	Rod Photoreceptor Loss in Rhoâˆ'/âˆ'Mice Reduces Retinal Hypoxia and Hypoxia-Regulated Gene Expression. , 2006, 47, 5553.		36
24	Characterisation of the advanced glycation endproduct receptor complex in the retinal pigment epithelium. British Journal of Ophthalmology, 2005, 89, 107-112.	2.1	35
25	VEGF-Induced Retinal Angiogenic Signaling Is Critically Dependent on Ca²⁺Signaling by Ca²⁺/Calmodulin-Dependent Protein Kinase II. , 2011, 52, 3103.		35
26	TRPV2 Channels Contribute to Stretch-Activated Cation Currents and Myogenic Constriction in Retinal Arterioles. , 2016, 57, 5637.		35
27	Considerations for optimization of microRNA PCR assays for molecular diagnosis. Expert Review of Molecular Diagnostics, 2016, 16, 407-414.	1.5	35
28	MicroRNAâ€containing extracellular vesicles released from endothelial colonyâ€forming cells modulate angiogenesis during ischaemic retinopathy. Journal of Cellular and Molecular Medicine, 2017, 21, 3405-3419.	1.6	35
29	Distinctive Profile of IsomiR Expression and Novel MicroRNAs in Rat Heart Left Ventricle. PLoS ONE, 2013, 8, e65809.	1.1	34
30	Enhanced Function of Induced Pluripotent Stem Cell-Derived Endothelial Cells Through ESM1 Signaling. Stem Cells, 2019, 37, 226-239.	1.4	25
31	A novel dual-fluorescence strategy for functionally validating microRNA targets in 3â€² untranslated regions: regulation of the inward rectifier potassium channel Kir2.1 by miR-212. Biochemical Journal, 2012, 448, 103-113.	1.7	23
32	Expression of the 67kDa Laminin Receptor (67LR) during Retinal Development: Correlations with Angiogenesis. Experimental Eye Research, 2001, 73, 81-92.	1.2	20
33	RNA-Sequencing data supports the existence of novel VEGFA splicing events but not of VEGFAxxxb isoforms. Scientific Reports, 2017, 7, 58.	1.6	16
34	A Multi-Omics Approach Identifies Key Regulatory Pathways Induced by Long-Term Zinc Supplementation in Human Primary Retinal Pigment Epithelium. Nutrients, 2020, 12, 3051.	1.7	15
35	Mutational Analysis of theRhodopsinGene in Sector Retinitis Pigmentosa. Ophthalmic Genetics, 2015, 36, 239-243.	0.5	14
36	Machine learning approaches to supporting the identification of photoreceptor-enriched genes based on expression data. BMC Bioinformatics, 2006, 7, 116.	1.2	9

#	Article	IF	Citations
37	Mini-XT, a miniaturized tagmentation-based protocol for efficient sequencing of SARS-CoV-2. Journal of Translational Medicine, 2022, 20, 105.	1.8	6
38	Pharmacological Profiling of Storeâ€Operated Ca²⁺ Entry in Retinal Arteriolar Smooth Muscle. Microcirculation, 2012, 19, 586-597.	1.0	5
39	Pathways, Processes, and Candidate Drugs Associated with a Hoxa Cluster-Dependency Model of Leukemia. Cancers, 2019, 11, 2036.	1.7	5
40	Debunking the Myth of the Endogenous Antiangiogenic Vegfaxxxb Transcripts. Trends in Endocrinology and Metabolism, 2020, 31, 398-409.	3.1	5
41	Comparison of SARS-CoV-2 Evolution in Paediatric Primary Airway Epithelial Cell Cultures Compared with Vero-Derived Cell Lines. Viruses, 2022, 14, 325.	1.5	5
42	Short and long-term effect of dexamethasone on the transcriptome profile of primary human trabecular meshwork cells in vitro. Scientific Reports, 2022, 12, 8299.	1.6	3
43	Single-cell transcriptomic profiling provides insights into retinal endothelial barrier properties. Molecular Vision, 2020, 26, 766-779.	1.1	2
44	Phexpo: a package for bidirectional enrichment analysis of phenotypes and chemicals. JAMIA Open, 2020, 3, 173-177.	1.0	1