## **Richard Emes**

List of Publications by Year in descending order

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132 papers

13,928 citations

38 h-index 21540 114 g-index

162 all docs 162 docs citations

162 times ranked 19826 citing authors

#	Article	IF	CITATIONS
1	Epigenetic regulation of $5\hat{l}$ ± reductase-1 underlies adaptive plasticity of reproductive function and pubertal timing. BMC Biology, 2022, 20, 11.	3.8	3
2	Gene Expression Profile Induced by Two Different Variants of Street Rabies Virus in Mice. Viruses, 2022, 14, 692.	3.3	1
3	Differential and defective transcription of koala retrovirus indicates the complexity of host and virus evolution. Journal of General Virology, 2022, 103, .	2.9	4
4	Transcriptomic and genomic variants between koala populations reveals underlying genetic components to disorders in a bottlenecked population. Conservation Genetics, 2021, 22, 329-340.	1.5	6
5	Interspecific Variation in One-Carbon Metabolism within the Ovarian Follicle, Oocyte, and Preimplantation Embryo: Consequences for Epigenetic Programming of DNA Methylation. International Journal of Molecular Sciences, 2021, 22, 1838.	4.1	13
6	Pneumolysin Is Responsible for Differential Gene Expression and Modifications in the Epigenetic Landscape of Primary Monocyte Derived Macrophages. Frontiers in Immunology, 2021, 12, 573266.	4.8	6
7	LINE-1 transcription in round spermatids is associated with accretion of 5-carboxylcytosine in their open reading frames. Communications Biology, 2021, 4, 691.	4.4	8
8	Method for RNA extraction and transcriptomic analysis of single fungal spores. MethodsX, 2020, 7, 100760.	1.6	3
9	N6-methyladenosine regulates the stability of RNA:DNA hybrids in human cells. Nature Genetics, 2020, 52, 48-55.	21.4	147
10	Thapsigargin at Non-Cytotoxic Levels Induces a Potent Host Antiviral Response that Blocks Influenza A Virus Replication. Viruses, 2020, 12, 1093.	3.3	18
11	Molecular Characterisation of Canine Osteosarcoma in High Risk Breeds. Cancers, 2020, 12, 2405.	3.7	12
12	A Paradox in Bacterial Pathogenesis: Activation of the Local Macrophage Inflammasome Is Required for Virulence of Streptococcus uberis. Pathogens, 2020, 9, 997.	2.8	11
13	Whole-Genome Sequence of a Plant Growth-Promoting Strain, Serratia marcescens BTL07, Isolated from the Rhizoplane of Capsicum annuum L. Microbiology Resource Announcements, 2020, 9, .	0.6	6
14	Metagenomics reveals impact of geography and acute diarrheal disease on the Central Indian human gut microbiome. Gut Microbes, 2020, 12, 1752605.	9.8	22
15	Pathological Findings in Koala Retrovirus-positive Koalas (Phascolarctos cinereus) from Northern and Southern Australia. Journal of Comparative Pathology, 2020, 176, 50-66.	0.4	18
16	Novel insights into viral infection and oncogenesis from koala retrovirus (KoRV) infection of HEK293T cells. Gene, 2020, 733, 144366.	2,2	5
17	Safe nanoengineering and incorporation of transplant populations in a neurosurgical grade biomaterial, DuraGen PlusTM, for protected cell therapy applications. Journal of Controlled Release, 2020, 321, 553-563.	9.9	7
18	Koala retrovirus viral load and disease burden in distinct northern and southern koala populations. Scientific Reports, 2020, 10, 263.	3.3	22

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19	The Cross-Talk between miR-511-3p and C-Type Lectin Receptors on Dendritic Cells Affects Dendritic Cell Function. Journal of Immunology, 2019, 203, 148-157.	0.8	19
20	Genetic diversity of Koala retrovirus env gene subtypes: insights into northern and southern koala populations. Journal of General Virology, 2019, 100, 1328-1339.	2.9	20
21	Detection and analysis of RNA methylation. F1000Research, 2019, 8, 559.	1.6	36
22	Evolution of gene expression levels in the male reproductive organs of <i>Anopheles</i> mosquitoes. Life Science Alliance, 2019, 2, e201800191.	2.8	10
23	SNP based transmission study of badgers infected with Mycobacterium bovis in the edge risk area of England. Access Microbiology, 2019, 1, .	0.5	0
24	HumanMethylation450K Array–Identified Biomarkers Predict Tumour Recurrence/Progression at Initial Diagnosis of High-risk Non-muscle Invasive Bladder Cancer. Biomarkers in Cancer, 2018, 10, 1179299X1775192.	3.6	11
25	Identification of stable reference genes for quantitative PCR in koalas. Scientific Reports, 2018, 8, 3364.	3.3	26
26	Opsonic Phagocytosis in Chronic Obstructive Pulmonary Disease Is Enhanced by Nrf2 Agonists. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 739-750.	5.6	53
27	Maternal genome-wide DNA methylation profiling in gestational diabetes shows distinctive disease-associated changes relative to matched healthy pregnancies. Epigenetics, 2018, 13, 122-128.	2.7	52
28	A proteomic investigation into mechanisms underpinning corticosteroid effects on neural stem cells. Molecular and Cellular Neurosciences, 2018, 86, 30-40.	2.2	8
29	Acute Toxoplasma Gondii Infection in Cats Induced Tissue-Specific Transcriptional Response Dominated by Immune Signatures. Frontiers in Immunology, 2018, 9, 2403.	4.8	30
30	Discrimination of contagious and environmental strains of Streptococcus uberis in dairy herds by means of mass spectrometry and machine-learning. Scientific Reports, 2018, 8, 17517.	3.3	25
31	The Beta-adrenergic agonist, Ractopamine, increases skeletal muscle expression of Asparagine Synthetase as part of an integrated stress response gene program. Scientific Reports, 2018, 8, 15915.	3.3	12
32	The Applied Development of a Tiered Multilocus Sequence Typing (MLST) Scheme for Dichelobacter nodosus. Frontiers in Microbiology, 2018, 9, 551.	3.5	10
33	Paternal diet programs offspring health through sperm- and seminal plasma-specific pathways in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 10064-10069.	7.1	185
34	Cancer reversion with oocyte extracts is mediated by cell cycle arrest and induction of tumour dormancy. Oncotarget, 2018, 9, 16008-16027.	1.8	11
35	Evolution of complexity in the zebrafish synapse proteome. Nature Communications, 2017, 8, 14613.	12.8	112
36	X-linked primary ciliary dyskinesia due to mutations in the cytoplasmic axonemal dynein assembly factor PIH1D3. Nature Communications, 2017, 8, 14279.	12.8	133

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37	Unbiased Analysis of the Impact of Micropatterned Biomaterials on Macrophage Behavior Provides Insights beyond Predefined Polarization States. ACS Biomaterials Science and Engineering, 2017, 3, 969-978.	5.2	39
38	Inferring Function from Homology. Methods in Molecular Biology, 2017, 1526, 23-40.	0.9	5
39	A distinct bacterial dysbiosis associated skin inflammation in ovine footrot. Scientific Reports, 2017, 7, 45220.	3.3	36
40	Complete Genome Sequences of Vibrio cholerae-Specific Bacteriophages 24 and X29. Genome Announcements, 2017, 5, .	0.8	6
41	DNA methylation at diagnosis is associated with response to disease-modifying drugs in early rheumatoid arthritis. Epigenomics, 2017, 9, 419-428.	2.1	35
42	Complete Genome Sequences of Seven Vibrio cholerae Phages Isolated in China. Genome Announcements, 2017, 5, .	0.8	1
43	TP53 copy number expansion is associated with the evolution of increased body size and an enhanced DNA damage response in elephants. ELife, 2016, 5, .	6.0	191
44	PIMMS (Pragmatic Insertional Mutation Mapping System) Laboratory Methodology a Readily Accessible Tool for Identification of Essential Genes in Streptococcus. Frontiers in Microbiology, 2016, 7, 1645.	3.5	4
45	RNA expression of TLR10 in normal equine tissues. BMC Research Notes, 2016, 9, 353.	1.4	7
46	Mitochondrial phosphoenolpyruvate carboxykinase (PEPCK-M) and serine biosynthetic pathway genes are co-ordinately increased during anabolic agent-induced skeletal muscle growth. Scientific Reports, 2016, 6, 28693.	3.3	29
47	Mapping polyclonal antibody responses to bacterial infection using next generation phage display. Scientific Reports, 2016, 6, 24232.	3.3	11
48	Mapping B-cell responses to Salmonella enterica serovars Typhimurium and Enteritidis in chickens for the discrimination of infected from vaccinated animals. Scientific Reports, 2016, 6, 31186.	3.3	4
49	Analysis of Mitochondrial haemoglobin in Parkinson's disease brain. Mitochondrion, 2016, 29, 45-52.	3.4	22
50	Quantitative genome-wide methylation analysis of high-grade non-muscle invasive bladder cancer. Epigenetics, 2016, 11, 237-246.	2.7	36
51	The effect of maternal undernutrition on the rat placental transcriptome: protein restriction up-regulates cholesterol transport. Genes and Nutrition, 2016, 11, 27.	2.5	20
52	Genome-wide profiling in treatment-naive early rheumatoid arthritis reveals DNA methylome changes in T and B lymphocytes. Epigenomics, 2016, 8, 209-224.	2.1	55
53	Molecular Epidemiology of Streptococcus uberis Clinical Mastitis in Dairy Herds: Strain Heterogeneity and Transmission. Journal of Clinical Microbiology, 2016, 54, 68-74.	3.9	50
54	A Trematode Parasite Derived Growth Factor Binds and Exerts Influences on Host Immune Functions via Host Cytokine Receptor Complexes. PLoS Pathogens, 2016, 12, e1005991.	4.7	55

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55	Skeletal muscle hypertrophy in pigs is associated with an increased expression of serine biosynthetic pathway genes along with genes associated with an endoplasmic reticulum stress response.  Proceedings of the Nutrition Society, 2015, 74, .	1.0	O
56	Triaging informative cis-regulatory elements for the combinatorial control of temporal gene expression during Plasmodium falciparum intraerythrocytic development. Parasites and Vectors, 2015, 8, 81.	<b>2.</b> 5	9
57	Transposon insertion mapping with PIMMS – Pragmatic Insertional Mutation Mapping System. Frontiers in Genetics, 2015, 06, 139.	2.3	3
58	Methylation of HOXA9 and ISL1 Predicts Patient Outcome in High-Grade Non-Invasive Bladder Cancer. PLoS ONE, 2015, 10, e0137003.	2.5	40
59	Virulence related sequences; insights provided by comparative genomics of Streptococcus uberis of differing virulence. BMC Genomics, 2015, 16, 334.	2.8	32
60	Clinical research: developing an appropriate career structure. Veterinary Record, 2015, 177, 544-547.	0.3	0
61	DNA methylation profiling of synovial fluid FLS in rheumatoid arthritis reveals changes common with tissue-derived FLS. Epigenomics, 2015, 7, 539-551.	2.1	16
62	Epidrug mediated re-expression of miRNA targeting the HMGA transcripts in pituitary cells. Pituitary, 2015, 18, 674-684.	2.9	16
63	TGF- $\hat{l}^2$ superfamily members from the helminth Fasciola hepatica show intrinsic effects on viability and development. Veterinary Research, 2015, 46, 29.	3.0	23
64	A novel member of the let-7 microRNA family is associated with developmental transitions in filarial nematode parasites. BMC Genomics, 2015, 16, 331.	2.8	25
65	Assembly, Assessment, and Availability of De novo Generated Eukaryotic Transcriptomes. Frontiers in Genetics, 2015, 6, 361.	2.3	57
66	A Data-Centric Strategy for Modern Biobanking. Advances in Experimental Medicine and Biology, 2015, 864, 165-169.	1.6	8
67	A predictive model for canine dilated cardiomyopathy—a meta-analysis of Doberman Pinscher data. PeerJ, 2015, 3, e842.	2.0	17
68	Phenotypic Microarrays Suggest Escherichia coli ST131 Is Not a Metabolically Distinct Lineage of Extra-Intestinal Pathogenic E. coli. PLoS ONE, 2014, 9, e88374.	2.5	18
69	263.â€fGenome-Wide DNA Methylation Profiling Identifies Distinct Changes in T- and B-Cell Populations from Patients with Rheumatoid Arthritis. Rheumatology, 2014, 53, i157-i158.	1.9	0
70	Homopolymer tract organization in the human malarial parasite Plasmodium falciparum and related Apicomplexan parasites. BMC Genomics, 2014, 15, 848.	2.8	10
71	Genome-wide DNA methylation profiling in rheumatoid arthritis identifies disease-associated methylation changes that are distinct to individual T- and B-lymphocyte populations. Epigenetics, 2014, 9, 1228-1237.	2.7	90
72	Targeted NGS gene panel identifies mutations in RSPH1 causing primary ciliary dyskinesia and a common mechanism for ciliary central pair agenesis due to radial spoke defects. Human Molecular Genetics, 2014, 23, 3362-3374.	2.9	82

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73	Combined exome and whole-genome sequencing identifies mutations in <i>ARMC4</i> as a cause of primary ciliary dyskinesia with defects in the outer dynein arm. Journal of Medical Genetics, 2014, 51, 61-67.	3.2	88
74	A consensus approach to vertebrate de novo transcriptome assembly from RNA-seq data: assembly of the duck (Anas platyrhynchos) transcriptome. Frontiers in Genetics, 2014, 5, 190.	2.3	33
75	Methylation of the <i>FGFR2</i> gene is associated with high birth weight centile in humans. Epigenomics, 2014, 6, 477-491.	2.1	27
76	The A2 gene of alcelaphine herpesvirus-1 is a transcriptional regulator affecting cytotoxicity in virus-infected T cells but is not required for malignant catarrhal fever induction in rabbits. Virus Research, 2014, 188, 68-80.	2.2	5
77	Identifying the Cellular Targets of Drug Action in the Central Nervous System Following Corticosteroid Therapy. ACS Chemical Neuroscience, 2014, 5, 51-63.	3.5	22
78	Multiple Groups of Endogenous Epsilon-Like Retroviruses Conserved across Primates. Journal of Virology, 2014, 88, 12464-12471.	3.4	15
79	Novel ovine polymorphisms and adaptive evolution in mammalian TLR2 suggest existence of multiple pathogen binding regions. Gene, 2014, 540, 217-225.	2.2	6
80	Molecular Characterization of Adipose Tissue in the African Elephant (Loxodonta africana). PLoS ONE, 2014, 9, e91717.	2.5	3
81	Characterisation of the horse transcriptome from immunologically active tissues. PeerJ, 2014, 2, e382.	2.0	6
82	Analysis of the spatial and temporal arrangement of transcripts over intergenic regions in the human malarial parasite Plasmodium falciparum. BMC Genomics, 2013, 14, 267.	2.8	19
83	Insights into the evolution of Darwin's finches from comparative analysis of the Geospiza magnirostris genome sequence. BMC Genomics, 2013, 14, 95.	2.8	38
84	Mutations in the Gene Encoding IFT Dynein Complex Component WDR34 Cause Jeune Asphyxiating Thoracic Dystrophy. American Journal of Human Genetics, 2013, 93, 932-944.	6.2	108
85	Bioinformatic perspectives in the neuronal ceroid lipofuscinoses. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1831-1841.	3.8	10
86	Synaptic scaffold evolution generated components of vertebrate cognitive complexity. Nature Neuroscience, 2013, 16, 16-24.	14.8	229
87	Characterisation of a group of endogenous gammaretroviruses in the canine genome. Veterinary Journal, 2013, 196, 28-33.	1.7	21
88	Splice-Site Mutations in the Axonemal Outer Dynein Arm Docking Complex Gene CCDC114 Cause Primary Ciliary Dyskinesia. American Journal of Human Genetics, 2013, 92, 88-98.	6.2	176
89	Mutations in ZMYND10, a Gene Essential for Proper Axonemal Assembly of Inner and Outer Dynein Arms in Humans and Flies, Cause Primary Ciliary Dyskinesia. American Journal of Human Genetics, 2013, 93, 346-356.	6.2	167
90	Antiepileptic drugs and the fetal epigenome. Epilepsia, 2013, 54, e16-9.	5.1	10

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91	Epigenome-wide profiling identifies significant differences in DNA methylation between matched-pairs of T- and B-lymphocytes from healthy individuals. Epigenetics, 2013, 8, 1188-1197.	2.7	42
92	Combined influence of gene-specific cord blood methylation and maternal smoking habit on birth weight. Epigenomics, 2013, 5, 37-49.	2.1	14
93	Exome sequencing identifies <i>DYNC2H1</i> mutations as a common cause of asphyxiating thoracic dystrophy (Jeune syndrome) without major polydactyly, renal or retinal involvement. Journal of Medical Genetics, 2013, 50, 309-323.	3.2	127
94	Mutations in <i>CCDC39</i> and <i>CCDC40</i> are the Major Cause of Primary Ciliary Dyskinesia with Axonemal Disorganization and Absent Inner Dynein Arms. Human Mutation, 2013, 34, 462-472.	2.5	176
95	The <b><i>EFEMP1</i></b> Gene: A Frequent Target for Epigenetic Silencing in Multiple Human Pituitary Adenoma Subtypes. Neuroendocrinology, 2013, 98, 200-211.	2.5	11
96	Quantitative, genome-wide analysis of the DNA methylome in sporadic pituitary adenomas. Endocrine-Related Cancer, 2012, 19, 805-816.	3.1	66
97	Make way for the â€next generation': application and prospects for genome-wide, epigenome-specific technologies in endocrine research. Journal of Molecular Endocrinology, 2012, 49, R19-R27.	2.5	19
98	Characterisation of retroviruses in the horse genome and their transcriptional activity via transcriptome sequencing. Virology, 2012, 433, 55-63.	2.4	14
99	Adaptive evolution of Toll-like receptor 5 in domesticated mammals. BMC Evolutionary Biology, 2012, 12, 122.	3.2	38
100	Identification of DNA methylation biomarkers from Infinium arrays. Frontiers in Genetics, 2012, 3, 161.	2.3	39
101	Evolution of Synapse Complexity and Diversity. Annual Review of Neuroscience, 2012, 35, 111-131.	10.7	131
102	A Comparative Approach to Understanding Tissue-Specific Expression of Uncoupling Protein 1 Expression in Adipose Tissue. Frontiers in Genetics, 2012, 3, 304.	2.3	11
103	Comparison of Clustering Methods for Investigation of Genome-Wide Methylation Array Data. Frontiers in Genetics, $2011, 2, 88$ .	2.3	30
104	The Human Postsynaptic Density Shares Conserved Elements with Proteomes of Unicellular Eukaryotes and Prokaryotes. Frontiers in Neuroscience, 2011, 5, 44.	2.8	19
105	Knockdown of embryonic myosin heavy chain reveals an essential role in the morphology and function of the developing heart. Development (Cambridge), 2011, 138, 3955-3966.	2.5	23
106	Area 51: How do Acanthamoeba invade the central nervous system?. Trends in Parasitology, 2011, 27, 185-189.	3.3	22
107	Adaptation to the chicken intestine in Salmonella Enteritidis PT4 studied by transcriptional analysis. Veterinary Microbiology, 2011, 153, 198-204.	1.9	19
108	Quantitative, high-resolution epigenetic profiling of CpG loci identifies associations with cord blood plasma homocysteine and birth weight in humans. Epigenetics, 2011, 6, 86-94.	2.7	123

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109	The Multiple Sclerosis Severity Score: associations with MC1R single nucleotide polymorphisms and host response to ultraviolet radiation. Multiple Sclerosis Journal, 2010, 16, 1109-1116.	3.0	11
110	LINE-1 DNA methylation is inversely correlated with cord plasma homocysteine in man: A preliminary study. Epigenetics, 2009, 4, 394-398.	2.7	97
111	Control of gene expression in Plasmodium falciparum – Ten years on. Molecular and Biochemical Parasitology, 2009, 164, 9-25.	1.1	88
112	Hsp-90 and the biology of nematodes. BMC Evolutionary Biology, 2009, 9, 254.	3.2	24
113	Mutations in Radial Spoke Head Protein Genes RSPH9 and RSPH4A Cause Primary Ciliary Dyskinesia with Central-Microtubular-Pair Abnormalities. American Journal of Human Genetics, 2009, 84, 197-209.	6.2	303
114	Evolutionary expansion and anatomical specialization of synapse proteome complexity. Nature Neuroscience, 2008, 11, 799-806.	14.8	171
115	The role of positive selection in determining the molecular cause of species differences in disease. BMC Evolutionary Biology, 2008, 8, 273.	3.2	74
116	Evolution of NMDA receptor cytoplasmic interaction domains: implications for organisation of synaptic signalling complexes. BMC Neuroscience, 2008, 9, 6.	1.9	90
117	Inferring Function from Homology. Methods in Molecular Biology, 2008, 453, 149-168.	0.9	9
118	Duplicated Paralogous Genes Subject to Positive Selection in the Genome of Trypanosoma brucei. PLoS ONE, 2008, 3, e2295.	2.5	29
119	Sexual Selection and the Adaptive Evolution of Mammalian Ejaculate Proteins. Molecular Biology and Evolution, 2007, 25, 207-219.	8.9	109
120	Diverse spatial, temporal, and sexual expression of recently duplicated androgen-binding protein genes in Mus musculus. BMC Evolutionary Biology, 2005, 5, 40.	3.2	27
121	Hirudo medicinalis: A Platform for Investigating Genes in Neural Repair. Cellular and Molecular Neurobiology, 2005, 25, 427-440.	3.3	15
122	Comparative Evolutionary Genomics of Androgen-Binding Protein Genes. Genome Research, 2004, 14, 1516-1529.	5.5	79
123	Evolution and Comparative Genomics of Odorant- and Pheromone-Associated Genes in Rodents. Genome Research, 2004, 14, 591-602.	5.5	97
124	Identifying genes for neuron survival and axon outgrowth in Hirudo medicinalis. Journal of Anatomy, 2004, 204, 13-24.	1.5	22
125	Genome sequence of the Brown Norway rat yields insights into mammalian evolution. Nature, 2004, 428, 493-521.	27.8	1,943
126	HmCRIP, a cysteine-rich intestinal protein, is expressed by an identified regenerating nerve cell. FEBS Letters, 2003, 533, 124-128.	2.8	14

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127	Comparison of the genomes of human and mouse lays the foundation of genome zoology. Human Molecular Genetics, 2003, 12, 701-709.	2.9	191
128	Cloning and characterisation of mmc-1, a microfilarial-specific gene, from Brugia pahangi. International Journal for Parasitology, 2002, 32, 415-424.	3.1	5
129	Initial sequencing and comparative analysis of the mouse genome. Nature, 2002, 420, 520-562.	27.8	6,319
130	A new sequence motif linking lissencephaly, Treacher Collins and oral-facial-digital type 1 syndromes, microtubule dynamics and cell migration. Human Molecular Genetics, 2001, 10, 2813-2820.	2.9	163
131	A new sequence motif linking lissencephaly, Treacher Collins and oral–facial–digital type 1 syndromes, microtubule dynamics and cell migration. , 0, .		1
132	Is it "a wonderful life� How well do we assess quality of life in cats?. , 0, , 557-557.		0