

Robert A Cornell

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

3,846
citations

126901

33
h-index

133244

59
g-index

72
all docs

72
docs citations

72
times ranked

5715
citing authors

#	ARTICLE	IF	CITATIONS
1	The fate of human malignant melanoma cells transplanted into zebrafish embryos: Assessment of migration and cell division in the absence of tumor formation. <i>Developmental Dynamics</i> , 2005, 233, 1560-1570.	1.8	270
2	Dominant Mutations in GRHL3 Cause Van der Woude Syndrome and Disrupt Oral Periderm Development. <i>American Journal of Human Genetics</i> , 2014, 94, 23-32.	6.2	195
3	A Polymorphism in IRF4 Affects Human Pigmentation through a Tyrosinase-Dependent MITF/TFAP2A Pathway. <i>Cell</i> , 2013, 155, 1022-1033.	28.9	184
4	Defective Skeletogenesis with Kidney Stone Formation in Dwarf Zebrafish Mutant for <i>trpm7</i> . <i>Current Biology</i> , 2005, 15, 667-671.	3.9	183
5	<i>Vnd/nkx</i> , <i>ind/gsh</i> , and <i>msh/msx</i> : conserved regulators of dorsoventral neural patterning?. <i>Current Opinion in Neurobiology</i> , 2000, 10, 63-71.	4.2	151
6	Identification of Functional Variants for Cleft Lip with or without Cleft Palate in or near PAX7, FGFR2, and NOG by Targeted Sequencing of GWAS Loci. <i>American Journal of Human Genetics</i> , 2015, 96, 397-411.	6.2	150
7	Transcription factor MITF and remodeller BRG1 define chromatin organisation at regulatory elements in melanoma cells. <i>ELife</i> , 2015, 4, .	6.0	147
8	A Genome-wide Association Study of Nonsyndromic Cleft Palate Identifies an Etiologic Missense Variant in GRHL3. <i>American Journal of Human Genetics</i> , 2016, 98, 744-754.	6.2	146
9	Delta/Notch signaling promotes formation of zebrafish neural crest by repressing Neurogenin 1 function. <i>Development (Cambridge)</i> , 2002, 129, 2639-2648.	2.5	144
10	Redundant activities of <i>Tfap2a</i> and <i>Tfap2c</i> are required for neural crest induction and development of other non-neural ectoderm derivatives in zebrafish embryos. <i>Developmental Biology</i> , 2007, 304, 338-354.	2.0	138
11	Identification of Early Requirements for Preplacodal Ectoderm and Sensory Organ Development. <i>PLoS Genetics</i> , 2010, 6, e1001133.	3.5	136
12	Notch in the pathway: The roles of Notch signaling in neural crest development. <i>Seminars in Cell and Developmental Biology</i> , 2005, 16, 663-672.	5.0	121
13	Interferon Regulatory Factor 6 Promotes Differentiation of the Periderm by Activating Expression of Grainyhead-Like 3. <i>Journal of Investigative Dermatology</i> , 2013, 133, 68-77.	0.7	114
14	Cell Death of Melanophores in Zebrafish <i>trpm7</i> Mutant Embryos Depends on Melanin Synthesis. <i>Journal of Investigative Dermatology</i> , 2007, 127, 2020-2030.	0.7	97
15	Requirements for Endothelin type-A receptors and Endothelin-1 signaling in the facial ectoderm for the patterning of skeletogenic neural crest cells in zebrafish. <i>Development (Cambridge)</i> , 2007, 134, 335-345.	2.5	87
16	Beyond <i>MITF</i> : Multiple transcription factors directly regulate the cellular phenotype in melanocytes and melanoma. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 454-466.	3.3	87
17	Distinct requirements for <i>wnt9a</i> and <i>irf6</i> in extension and integration mechanisms during zebrafish palate morphogenesis. <i>Development (Cambridge)</i> , 2013, 140, 76-81.	2.5	81
18	TFAP2 paralogs regulate melanocyte differentiation in parallel with MITF. <i>PLoS Genetics</i> , 2017, 13, e1006636.	3.5	78

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19	Transcription factor Ap-2 \pm is necessary for development of embryonic melanophores, autonomic neurons and pharyngeal skeleton in zebrafish. <i>Developmental Biology</i> , 2004, 265, 246-261.	2.0	77
20	A Mutation in the <i>Srrm4</i> Gene Causes Alternative Splicing Defects and Deafness in the Bronx Waltzer Mouse. <i>PLoS Genetics</i> , 2012, 8, e1002966.	3.5	77
21	New Functional Signatures for Understanding Melanoma Biology from Tumor Cell Lineage-Specific Analysis. <i>Cell Reports</i> , 2015, 13, 840-853.	6.4	76
22	Maternal Interferon Regulatory Factor 6 is required for the differentiation of primary superficial epithelia in <i>Danio</i> and <i>Xenopus</i> embryos. <i>Developmental Biology</i> , 2009, 325, 249-262.	2.0	64
23	A Gene Implicated in Activation of Retinoic Acid Receptor Targets Is a Novel Renal Agenesis Gene in Humans. <i>Genetics</i> , 2017, 207, 215-228.	2.9	62
24	Genomic analyses in African populations identify novel risk loci for cleft palate. <i>Human Molecular Genetics</i> , 2019, 28, 1038-1051.	2.9	61
25	Delta/Notch signaling promotes formation of zebrafish neural crest by repressing Neurogenin 1 function. <i>Development (Cambridge)</i> , 2002, 129, 2639-48.	2.5	57
26	HOMER2, a Stereociliary Scaffolding Protein, Is Essential for Normal Hearing in Humans and Mice. <i>PLoS Genetics</i> , 2015, 11, e1005137.	3.5	52
27	Novel Tfp2-mediated control of <i>soxE</i> expression facilitated the evolutionary emergence of the neural crest. <i>Development (Cambridge)</i> , 2012, 139, 720-730.	2.5	51
28	Exome sequencing provides additional evidence for the involvement of <i>ARHGAP29</i> in Mendelian orofacial clefting and extends the phenotypic spectrum to isolated cleft palate. <i>Birth Defects Research</i> , 2017, 109, 27-37.	1.5	49
29	<i>Irf6</i> directly regulates <i>Klf17</i> in zebrafish periderm and <i>Klf4</i> in murine oral epithelium, and dominant-negative <i>KLF4</i> variants are present in patients with cleft lip and palate. <i>Human Molecular Genetics</i> , 2016, 25, 766-776.	2.9	48
30	Identification of common non-coding variants at 1p22 that are functional for non-syndromic orofacial clefting. <i>Nature Communications</i> , 2017, 8, 14759.	12.8	48
31	Zebrafish models of orofacial clefts. <i>Developmental Dynamics</i> , 2017, 246, 897-914.	1.8	46
32	Differentiation of Zebrafish Melanophores Depends on Transcription Factors AP2 Alpha and AP2 Epsilon. <i>PLoS Genetics</i> , 2010, 6, e1001122.	3.5	45
33	MITF reprograms the extracellular matrix and focal adhesion in melanoma. <i>ELife</i> , 2021, 10, .	6.0	45
34	Drug repositioning in epilepsy reveals novel antiseizure candidates. <i>Annals of Clinical and Translational Neurology</i> , 2019, 6, 295-309.	3.7	40
35	Cooperation between melanoma cell states promotes metastasis through heterotypic cluster formation. <i>Developmental Cell</i> , 2021, 56, 2808-2825.e10.	7.0	37
36	A single nucleotide polymorphism associated with isolated cleft lip and palate, thyroid cancer and hypothyroidism alters the activity of an oral epithelium and thyroid enhancer near <i>FOXE1</i> . <i>Human Molecular Genetics</i> , 2015, 24, 3895-3907.	2.9	36

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37	Craniofacial genetics: Where have we been and where are we going?. PLoS Genetics, 2018, 14, e1007438.	3.5	32
38	Aberrant CpG methylation of the <i>TFAP2A</i> gene constitutes a mechanism for loss of <i>TFAP2A</i> expression in human metastatic melanoma. Epigenetics, 2014, 9, 1641-1647.	2.7	31
39	Abnormal differentiation of dopaminergic neurons in zebrafish <i>trpm7</i> mutant larvae impairs development of the motor pattern. Developmental Biology, 2014, 386, 428-439.	2.0	31
40	Copy number variation analysis implicates the cell polarity gene <i>glypican 5</i> as a human spina bifida candidate gene. Human Molecular Genetics, 2013, 22, 1097-1111.	2.9	29
41	Combinatorial signaling in development. BioEssays, 1994, 16, 577-581.	2.5	26
42	Touchtone promotes survival of embryonic melanophores in zebrafish. Mechanisms of Development, 2004, 121, 1365-1376.	1.7	26
43	Mutations in <i>GDF11</i> and the extracellular antagonist, <i>Follistatin</i> , as a likely cause of Mendelian forms of orofacial clefting in humans. Human Mutation, 2019, 40, 1813-1825.	2.5	26
44	Analysis of zebrafish periderm enhancers facilitates identification of a regulatory variant near human <i>KRT8/18</i> . ELife, 2020, 9, .	6.0	23
45	Identification of <i>Isthmin 1</i> as a Novel Clefting and Craniofacial Patterning Gene in Humans. Genetics, 2018, 208, 283-296.	2.9	18
46	Expression of the zebrafish <i>Staufen</i> gene in the embryo and adult. Gene Expression Patterns, 2004, 5, 273-278.	0.8	17
47	Vesicular monoamine transporter 2 (<i>SLC18A2</i>) regulates monoamine turnover and brain development in zebrafish. Acta Physiologica, 2022, 234, e13725.	3.8	14
48	<i>SLC41A1</i> and <i>TRPM7</i> in magnesium homeostasis and genetic risk for Parkinson's disease. Journal of Neurology and Neuromedicine, 2016, 1, 23-28.	0.9	13
49	<i>TFAP2</i> paralogs facilitate chromatin access for <i>MITF</i> at pigmentation and cell proliferation genes. PLoS Genetics, 2022, 18, e1010207.	3.5	13
50	The opioid antagonist naltrexone decreases seizure-like activity in genetic and chemically induced epilepsy models. Epilepsia Open, 2021, 6, 528-538.	2.4	11
51	<i>BRN2</i> is a non-canonical melanoma tumor-suppressor. Nature Communications, 2021, 12, 3707.	12.8	10
52	Gene regulatory evolution and the origin of macroevolutionary novelties: Insights from the neural crest. Genesis, 2013, 51, 457-470.	1.6	9
53	A Double TRPtych: Six Views of Transient Receptor Potential Channels in Disease and Health. Journal of Neuroscience, 2008, 28, 11778-11784.	3.6	8
54	Investigations of the In Vivo Requirements of Transient Receptor Potential Ion Channels Using Frog and Zebrafish Model Systems. Advances in Experimental Medicine and Biology, 2011, 704, 341-357.	1.6	5

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55	Functional Characterization of a Novel IRF6 Frameshift Mutation From a Van Der Woude Syndrome Family. <i>Frontiers in Genetics</i> , 2020, 11, 562.	2.3	4
56	SLC41A1 and TRPM7 in magnesium homeostasis and genetic risk for Parkinson's disease. <i>Journal of Neurology and Neuromedicine</i> , 2016, 1, 23-28.	0.9	4
57	Motility phenotype in a zebrafish vmat2 mutant. <i>PLoS ONE</i> , 2022, 17, e0259753.	2.5	4
58	Stable expression of the human dopamine transporter in N27 cells as an in vitro model for dopamine cell trafficking and metabolism. <i>Toxicology in Vitro</i> , 2021, 76, 105210.	2.4	2
59	Generating Zebrafish RNA-Less Mutant Alleles by Deleting Gene Promoters with CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2022, 2403, 91-106.	0.9	2
60	Interferon Regulatory Factor 6 Promotes Differentiation of the Periderm by Activating Expression of Grainyhead-Like 3. <i>Journal of Investigative Dermatology</i> , 2013, 133, 859.	0.7	1
61	Investigating Diseases of Dopaminergic Neurons and Melanocytes Using Zebrafish. <i>Methods in Pharmacology and Toxicology</i> , 2012, , 153-166.	0.2	0
62	Zebrafish as models for developmental disease & repair. <i>Developmental Dynamics</i> , 2017, 246, 867-867.	1.8	0
63	Front Cover, Volume 40, Issue 10. <i>Human Mutation</i> , 2019, 40, i.	2.5	0
64	Computational Inference Tuned with Wetâ€bench Results Yields a Model of the Transcriptional Regulatory Network Governing Zebrafish Periderm Differentiation. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
65	Identification of a nonâ€coding SNP associated with risk for nonâ€syndromic orofacial clefting with alleleâ€specific effects on IRF6 expression in vitro. <i>FASEB Journal</i> , 2021, 35, .	0.5	0