Timothy C Cox

List of Publications by Year
in descending order

82 papers	3,245 citations	186265 28 h-index	182427 51 g-index
91 all docs	91 docs citations	91 times ranked	4974 citing authors

#	Article	IF	Citations
1	Microtia: Epidemiology and genetics. American Journal of Medical Genetics, Part A, 2012, 158A, 124-139.	1.2	323
2	Survey of spiking in the mouse visual system reveals functional hierarchy. Nature, 2021, 592, 86-92.	27.8	284
3	Subclassification of the RBCC/TRIM Superfamily Reveals a Novel Motif Necessary for Microtubule Binding. Journal of Biological Chemistry, 2006, 281, 8970-8980.	3.4	264
4	Comparative Computational Modeling of Airflows and Vapor Dosimetry in the Respiratory Tracts of Rat, Monkey, and Human. Toxicological Sciences, 2012, 128, 500-516.	3.1	141
5	MID1 and MID2 homo- and heterodimerise to tether the rapamycin-sensitive PP2A regulatory subunit, alpha 4, to microtubules: implications for the clinical variability of X-linked Opitz GBBB syndrome and other developmental disorders. BMC Cell Biology, 2002, 3, 1.	3.0	109
6	The genetics of auricular development and malformation: New findings in model systems driving future directions for microtia research. European Journal of Medical Genetics, 2014, 57, 394-401.	1.3	100
7	A genome-wide screen for modifiers of transgene variegation identifies genes with critical roles in development. Genome Biology, 2008, 9, R182.	9.6	97
8	Mutations in the Epithelial Cadherin-p120-Catenin Complex Cause Mendelian Non-Syndromic Cleft Lip with or without Cleft Palate. American Journal of Human Genetics, 2018, 102, 1143-1157.	6.2	94
9	New mutations in MID1 provide support for loss of function as the cause of X-linked Opitz syndrome. Human Molecular Genetics, 2000, 9, 2553-2562.	2.9	88
10	Genome-Wide Association Studies in Dogs and Humans Identify ADAMTS20 as a Risk Variant for Cleft Lip and Palate. PLoS Genetics, 2015, 11, e1005059.	3.5	82
11	A Human Homeotic Transformation Resulting from Mutations in PLCB4 and GNAI3 Causes Auriculocondylar Syndrome. American Journal of Human Genetics, 2012, 90, 907-914.	6.2	75
12	Retreatability of two endodontic sealers, EndoSequence BC Sealer and AH Plus: a micro-computed tomographic comparison. Restorative Dentistry & Endodontics, 2017, 42, 19.	1.5	71
13	A dyadic approach to the delineation of diagnostic entities in clinical genomics. American Journal of Human Genetics, 2021, 108, 8-15.	6.2	71
14	Vascular remodeling of the vitelline artery initiates extravascular emergence of hematopoietic clusters. Blood, 2010, 116, 3435-3444.	1.4	68
15	Postnatal Ontogeny of the Cranial Base and Craniofacial Skeleton in Male C57BL/6J Mice: A Reference Standard for Quantitative Analysis. Frontiers in Physiology, 2015, 6, 417.	2.8	61
16	Rapamycin treatment attenuates age-associated periodontitis in mice. GeroScience, 2017, 39, 457-463.	4.6	61
17	Mild phenotypes in a series of patients with Opitz GBBB syndrome withMID1mutations. American Journal of Medical Genetics, Part A, 2005, 132A, 1-7.	1.2	59
18	SLC20A2 Deficiency in Mice Leads to Elevated Phosphate Levels in Cerbrospinal Fluid and Glymphatic Pathwayâ€Associated Arteriolar Calcification, and Recapitulates Human Idiopathic Basal Ganglia Calcification. Brain Pathology, 2017, 27, 64-76.	4.1	59

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19	Rapamycin rejuvenates oral health in aging mice. ELife, 2020, 9, .	6.0	59
20	Quantitative trait loci affecting the 3D skull shape and size in mouse and prioritization of candidate genes in-silico. Frontiers in Physiology, 2015, 6, 92.	2.8	52
21	Secreted metalloproteases ADAMTS9 and ADAMTS20 have a non-canonical role in ciliary vesicle growth during ciliogenesis. Nature Communications, 2019, 10, 953.	12.8	51
22	PiT-2, a type III sodium-dependent phosphate transporter, protects against vascular calcification in mice with chronic kidney disease fed a high-phosphate diet. Kidney International, 2018, 94, 716-727.	5.2	42
23	Negative regulation of Endothelin signaling by SIX1 is required for proper maxillary development. Development (Cambridge), 2017, 144, 2021-2031.	2.5	36
24	Facial suture synostosis of newborn Fgfr1P250R/+ and Fgfr2S252W/+ mouse models of Pfeiffer and Apert syndromes. Birth Defects Research Part A: Clinical and Molecular Teratology, 2011, 91, 603-609.	1.6	34
25	FXY2/MID2, a Gene Related to the X-Linked Opitz Syndrome Gene FXY/MID1, Maps to Xq22 and Encodes a FNIII Domain-Containing Protein That Associates with Microtubules. Genomics, 1999, 62, 385-394.	2.9	33
26	The MID1 E3 Ligase Catalyzes the Polyubiquitination of Alpha4 (Î±4), a Regulatory Subunit of Protein Phosphatase 2A (PP2A). Journal of Biological Chemistry, 2013, 288, 21341-21350.	3.4	32
27	Discovery and characterization of spontaneous mouse models of craniofacial dysmorphology. Developmental Biology, 2016, 415, 216-227.	2.0	32
28	A GWAS in Latin Americans identifies novel face shape loci, implicating VPS13B and a Denisovan introgressed region in facial variation. Science Advances, 2021, 7, .	10.3	32
29	Comparing Canal Transportation and Centering Ability of EndoSequence and Vortex Rotary Files by Using Microâ€“Computed Tomography. Journal of Endodontics, 2012, 38, 1121-1125.	3.1	30
30	X-linked microtubule-associated protein, Mid1, regulates axon development. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19131-19136.	7.1	30
31	Full Spectrum of Postnatal Tooth Phenotypes in a Novel Irf6 Cleft Lip Model. Journal of Dental Research, 2016, 95, 1265-1273.	5.2	30
32	Multiethnic GWAS Reveals Polygenic Architecture of Earlobe Attachment. American Journal of Human Genetics, 2017, 101, 913-924.	6.2	29
33	Differences in Oral Structure and Tissue Interactions during Mouse vs. Human Palatogenesis: Implications for the Translation of Findings from Mice. Frontiers in Physiology, 2017, 8, 154.	2.8	29
34	Digging adaptation in insectivorous subterranean eutherians. The enigma ofMesoscalops montanensisunveiled by geometric morphometrics and finite element analysis. Journal of Morphology, 2015, 276, 1157-1171.	1.2	27
35	Mutations in GDF11 and the extracellular antagonist, Follistatin, as a likely cause of Mendelian forms of orofacial clefting in humans. Human Mutation, 2019, 40, 1813-1825.	2.5	26
36	Deletion of a conserved regulatory element required for Hmx1 expression in craniofacial mesenchyme in the dumbo rat: a novel cause of congenital ear malformation. DMM Disease Models and Mechanisms, 2012, 5, 812-22.	2.4	24

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37	Evaluation and integration of disparate classification systems for clefts of the lip. Frontiers in Physiology, 2014, 5, 163.	2.8	24
38	Hmx1 is required for the normal development of somatosensory neurons in the geniculate ganglion. Developmental Biology, 2012, 365, 152-163.	2.0	23
39	Preferential Associated Anomalies in 818 Cases of Microtia in South America. American Journal of Medical Genetics, Part A, 2013, 161, 1051-1057.	1.2	22
40	Impaired myocardial development resulting in neonatal cardiac hypoplasia alters postnatal growth and stress response in the heart. Cardiovascular Research, 2015, 106, 43-54.	3.8	22
41	Inhibition of Notch Signaling During Mouse Incisor Renewal Leads to Enamel Defects. Journal of Bone and Mineral Research, 2016, 31, 152-162.	2.8	21
42	Isolation and characterisation of the chick orthologue of the Opitz syndrome gene, Mid1, supports a conserved role in vertebrate development. International Journal of Developmental Biology, 2002, 46, 441-8.	0.6	18
43	Respiratory tract lung geometry and dosimetry model for male Sprague-Dawley rats. Inhalation Toxicology, 2014, 26, 524-544.	1.6	17
44	Intraâ€•and Intersexual swim bladder dimorphisms in the plainfin midshipman fish (Porichthys) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Journal of Morphology, 2017, 278, 1458-1468.	1.2	17
45	Loss of PiT-2 results in abnormal bone development and decreased bone mineral density and length in mice. Biochemical and Biophysical Research Communications, 2018, 495, 553-559.	2.1	17
46	Oculoauriculofrontonasal syndrome: Case series revealing new bony nasal anomalies in an old syndrome. American Journal of Medical Genetics, Part A, 2013, 161, 1345-1353.	1.2	15
47	In-silico QTL mapping of postpubertal mammary ductal development in the mouse uncovers potential human breast cancer risk loci. Mammalian Genome, 2015, 26, 57-79.	2.2	15
48	Perspectives and challenges in advancing research into craniofacial anomalies. American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, 2013, 163, 213-217.	1.6	14
49	Effects of Cell Grafting on Coronary Remodeling After Myocardial Infarction. Journal of the American Heart Association, 2013, 2, e000202.	3.7	14
50	Isl1 Controls Patterning and Mineralization of Enamel in the Continuously Renewing Mouse Incisor. Journal of Bone and Mineral Research, 2017, 32, 2219-2231.	2.8	14
51	Associations between laterality of orofacial clefts and medical and academic outcomes. American Journal of Medical Genetics, Part A, 2018, 176, 267-276.	1.2	14
52	Automated Detection of 3D Landmarks for the Elimination of Non-Biological Variation in Geometric Morphometric Analyses. , 2015, 2015, 78-83.		13
53	A distal 594bp ECR specifies Hmx1 expression in pinna and lateral facial morphogenesis and is regulated by Hox-Pbx-Meis. Development (Cambridge), 2016, 143, 2582-92.	2.5	13
54	The Microtubule-Associated C-I Subfamily of TRIM Proteins and the Regulation of Polarized Cell Responses. Advances in Experimental Medicine and Biology, 2012, 770, 105-118.	1.6	13

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55	No evidence for cumulative effects in a Dnmt3b hypomorph across multiple generations. Mammalian Genome, 2013, 24, 206-217.	2.2	12
56	Genetic evidence for conserved non-coding element function across speciesâ€“the ears have it. Frontiers in Physiology, 2014, 5, 7.	2.8	12
57	CDH1 Mutation Distribution and Type Suggests Genetic Differences between the Etiology of Orofacial Clefting and Gastric Cancer. Genes, 2020, 11, 391.	2.4	11
58	Utility and limitations of animal models for the functional validation of human sequence variants. Molecular Genetics & Genomic Medicine, 2015, 3, 375-382.	1.2	10
59	Effects of Multi-Generational Soft Diet Consumption on Mouse Craniofacial Morphology. Frontiers in Physiology, 2020, 11, 783.	2.8	10
60	GATA3 is essential for separating patterning domains during facial morphogenesis. Development (Cambridge), 2021, 148, .	2.5	10
61	A micro-computed tomography-based comparison of the canal transportation and centering ability of ProTaper Universal rotary and WaveOne reciprocating files. Quintessence International, 2014, 45, 101-8.	0.4	10
62	Microtomographic Analysis of Lower Urinary Tract Obstruction. Pediatric and Developmental Pathology, 2013, 16, 405-414.	1.0	9
63	Altering calcium and phosphorus levels in utero affects adult mouse mandibular morphology. Orthodontics and Craniofacial Research, 2019, 22, 113-119.	2.8	9
64	The E3 ligase TRIM1 ubiquitinates LRRK2 and controls its localization, degradation, and toxicity. Journal of Cell Biology, 2022, 221, .	5.2	8
65	Osseous Characteristics of Mice Lacking Cannabinoid Receptor 2 after Pulp Exposure. Journal of Endodontics, 2015, 41, 853-857.	3.1	6
66	A Synonymous Exonic Splice Silencer Variant in IRF6 as a Novel and Cryptic Cause of Non-Syndromic Cleft Lip and Palate. Genes, 2020, 11, 903.	2.4	6
67	Auriculocondylar syndrome 2 results from the dominant-negative action of PLCB4 variants. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	6
68	p27 kip1 Knockout enhances collateralization in response to hindlimb ischemia. Journal of Vascular Surgery, 2016, 63, 1351-1359.	1.1	4
69	Sonic Hedgehog upregulation does not enhance the survival and engraftment of stem cell-derived cardiomyocytes in infarcted hearts. PLoS ONE, 2020, 15, e0227780.	2.5	4
70	Pathogenic variants in CDH11 impair cell adhesion and cause Teebi hypertelorism syndrome. Human Genetics, 2021, 140, 1061-1076.	3.8	4
71	A likely role for the PH-domain containing protein, PEPP2/ PLEKHA5, at the membrane-microtubule cytoskeleton interface. Biocell, 2013, 37, 55-61.	0.7	4
72	Microcomputed tomography of craniofacial mineralized tissue: A practical user's guide to study planning and generating quality data. Bone, 2020, 137, 115408.	2.9	3

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73	Altering calcium and phosphorus supplementation in pregnancy and lactation affects offspring craniofacial morphology in a sex-specific pattern. American Journal of Orthodontics and Dentofacial Orthopedics, 2022, 161, e446-e455.	1.7	3
74	3-D Imaging of Biomedical Samples. , 0, , 203-221.		2
75	Branchâ€Based Model for the Diameters of the Pulmonary Airways: Accounting for Departures From Selfâ€Consistency and Registration Errors. Anatomical Record, 2012, 295, 1027-1044.	1.4	2
76	Molecular Genetics and Biology of Craniofacial Craniosynostoses. , 2015, , 499-520.		1
77	Front Cover, Volume 40, Issue 10. Human Mutation, 2019, 40, i.	2.5	0
78	Response to Hamosh etÂal.. American Journal of Human Genetics, 2021, 108, 1809-1810.	6.2	0
79	Phenotypic characterization of new mouse model of class III malocclusion. Egyptian Orthodontic Journal, 2013, 44, 21-28.	0.2	0
80	Abstract 167: Doxycycline Inhibits Revascularization After Hindlimb Ischemia. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, .	2.4	0
81	Multi-species Ontologies of the Craniofacial Musculoskeletal System. CEUR Workshop Proceedings, 2016, 1747, .	2.3	0
82	Human Development Domain of the Ontology of Craniofacial Development and Malformation. CEUR Workshop Proceedings, 2013, 1060, 74-77.	2.3	0