

Abigail S. Tucker

List of Publications by Year in descending order

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145
papers

6,959
citations

66343

42
h-index

69250

77
g-index

152
all docs

152
docs citations

152
times ranked

5464
citing authors

#	ARTICLE	IF	CITATIONS
1	The cutting-edge of mammalian development; how the embryo makes teeth. <i>Nature Reviews Genetics</i> , 2004, 5, 499-508.	16.3	525
2	Transformation of Tooth Type Induced by Inhibition of BMP Signaling. <i>Science</i> , 1998, 282, 1136-1138.	12.6	392
3	Gene defect in ectodermal dysplasia implicates a death domain adapter in development. <i>Nature</i> , 2001, 414, 913-916.	27.8	342
4	Salivary gland development. <i>Seminars in Cell and Developmental Biology</i> , 2007, 18, 237-244.	5.0	290
5	Molecular Genetics of Tooth Morphogenesis and Patterning: The Right Shape in the Right Place. <i>Journal of Dental Research</i> , 1999, 78, 826-834.	5.2	194
6	Activin is an essential early mesenchymal signal in tooth development that is required for patterning of the murine dentition. <i>Genes and Development</i> , 1998, 12, 2636-2649.	5.9	181
7	Tooth Agenesis: from Molecular Genetics to Molecular Dentistry. <i>Journal of Dental Research</i> , 2008, 87, 617-623.	5.2	179
8	Interactions between Bmp-4 and Msx-1 act to restrict gene expression to odontogenic mesenchyme. <i>Developmental Dynamics</i> , 1998, 212, 533-539.	1.8	150
9	Current knowledge of tooth development: patterning and mineralization of the murine dentition. <i>Journal of Anatomy</i> , 2009, 214, 502-515.	1.5	138
10	The activation level of the TNF family receptor, Edar, determines cusp number and tooth number during tooth development. <i>Developmental Biology</i> , 2004, 268, 185-194.	2.0	135
11	Evolution of the mammalian middle ear and jaw: adaptations and novel structures. <i>Journal of Anatomy</i> , 2013, 222, 147-160.	1.5	117
12	The pharyngeal pouches and clefts: Development, evolution, structure and derivatives. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 325-332.	5.0	114
13	Ror2 knockout mouse as a model for the developmental pathology of autosomal recessive Robinow syndrome. <i>Developmental Dynamics</i> , 2004, 229, 400-410.	1.8	113
14	Embryonic bauplans and the developmental origins of facial diversity and constraint. <i>Development (Cambridge)</i> , 2014, 141, 1059-1063.	2.5	112
15	Fgf and Bmp signals repress the expression of Bapx1 in the mandibular mesenchyme and control the position of the developing jaw joint. <i>Developmental Biology</i> , 2004, 266, 138-150.	2.0	109
16	Loss of teeth and enamel in tetrapods: fossil record, genetic data and morphological adaptations. <i>Journal of Anatomy</i> , 2009, 214, 477-501.	1.5	109
17	Bapx1 regulates patterning in the middle ear: altered regulatory role in the transition from the proximal jaw during vertebrate evolution. <i>Development (Cambridge)</i> , 2004, 131, 1235-1245.	2.5	108
18	Expression of Axin2 indicates a role for canonical Wnt signaling in development of the crown and root during pre- and postnatal tooth development. <i>Developmental Dynamics</i> , 2010, 239, 160-167.	1.8	95

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19	Lineage tracing of the endoderm during oral development. <i>Developmental Dynamics</i> , 2012, 241, 1183-1191.	1.8	95
20	Evolution and developmental diversity of tooth regeneration. <i>Seminars in Cell and Developmental Biology</i> , 2014, 25-26, 71-80.	5.0	89
21	Initiation and patterning of the snake dentition are dependent on Sonic Hedgehog signaling. <i>Developmental Biology</i> , 2008, 319, 132-145.	2.0	87
22	Dual Origin of the Epithelium of the Mammalian Middle Ear. <i>Science</i> , 2013, 339, 1453-1456.	12.6	86
23	Neural crest cells provide species-specific patterning information in the developing branchial skeleton. <i>Evolution & Development</i> , 2004, 6, 32-40.	2.0	84
24	Sonic hedgehog in the pharyngeal endoderm controls arch pattern via regulation of Fgf8 in head ectoderm. <i>Developmental Biology</i> , 2007, 303, 244-258.	2.0	81
25	Fgf10-Sox9 are essential for establishment of distal progenitor cells during salivary gland development. <i>Development (Cambridge)</i> , 2017, 144, 2294-2305.	2.5	79
26	Death in the Life of a Tooth. <i>Journal of Dental Research</i> , 2004, 83, 11-16.	5.2	76
27	Tooth-bone morphogenesis during postnatal stages of mouse first molar development. <i>Journal of Anatomy</i> , 2011, 218, 699-716.	1.5	69
28	Early Regression of the Dental Lamina Underlies the Development of Diphyodont Dentitions. <i>Journal of Dental Research</i> , 2012, 91, 491-498.	5.2	68
29	Mouse models of tooth abnormalities. <i>European Journal of Oral Sciences</i> , 2008, 116, 1-10.	1.5	66
30	Cell lineage of primary and secondary enamel knots. <i>Developmental Dynamics</i> , 2005, 233, 754-759.	1.8	62
31	Tail bud determination in the vertebrate embryo. <i>Current Biology</i> , 1995, 5, 807-813.	3.9	59
32	Enamel-free teeth: Tbx1 deletion affects amelogenesis in rodent incisors. <i>Developmental Biology</i> , 2009, 328, 493-505.	2.0	54
33	Evolution of the hypoxia-sensitive cells involved in amniote respiratory reflexes. <i>ELife</i> , 2017, 6, .	6.0	54
34	The origin of the stapes and relationship to the otic capsule and oval window. <i>Developmental Dynamics</i> , 2012, 241, 1396-1404.	1.8	53
35	Odontogenesis in the Veiled Chameleon (<i>Chamaeleo calytratus</i>). <i>Archives of Oral Biology</i> , 2013, 58, 118-133.	1.8	53
36	A role for suppressed incisor cuspal morphogenesis in the evolution of mammalian heterodont dentition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 92-97.	7.1	51

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37	Traf6 is essential for murine tooth cusp morphogenesis. <i>Developmental Dynamics</i> , 2004, 229, 131-135.	1.8	50
38	Contribution of mesoderm to the developing dental papilla. <i>International Journal of Developmental Biology</i> , 2011, 55, 59-64.	0.6	50
39	Contribution of the tooth bud mesenchyme to alveolar bone. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2009, 312B, 510-517.	1.3	49
40	Epithelial stratification and placode invagination are separable functions in early morphogenesis of the molar tooth. <i>Development (Cambridge)</i> , 2016, 143, 670-81.	2.5	48
41	Organized Emergence of Multiple-Generations of Teeth in Snakes Is Dysregulated by Activation of Wnt/Beta-Catenin Signalling. <i>PLoS ONE</i> , 2013, 8, e74484.	2.5	48
42	The development of complex tooth shape in reptiles. <i>Frontiers in Physiology</i> , 2014, 5, 74.	2.8	46
43	Joint formation in the middle ear: Lessons from the mouse and guinea pig. <i>Developmental Dynamics</i> , 2006, 235, 1326-1333.	1.8	45
44	A regulatory relationship between Tbx1 and FGF signaling during tooth morphogenesis and ameloblast lineage determination. <i>Developmental Biology</i> , 2008, 320, 39-48.	2.0	45
45	Interactions of the Tooth and Bone during Development. <i>Journal of Dental Research</i> , 2013, 92, 1129-1135.	5.2	45
46	Multiple Cranial Organ Defects after Conditionally Knocking Out Fgf10 in the Neural Crest. <i>Frontiers in Physiology</i> , 2016, 7, 488.	2.8	45
47	Organized Tooth-specific Cellular Differentiation Stimulated by BMP4. <i>Journal of Dental Research</i> , 2005, 84, 603-606.	5.2	44
48	A new developmental mechanism for the separation of the mammalian middle ear ossicles from the jaw. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162416.	2.6	44
49	Meckel's cartilage breakdown offers clues to mammalian middle ear evolution. <i>Nature Ecology and Evolution</i> , 2017, 1, 93.	7.8	43
50	Major evolutionary transitions and innovations: the tympanic middle ear. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20150483.	4.0	43
51	No evidence for ventrally migrating neural tube cells from the mid- and hindbrain. <i>Developmental Dynamics</i> , 2002, 223, 163-167.	1.8	42
52	Fate map of the dental mesenchyme: Dynamic development of the dental papilla and follicle. <i>Developmental Biology</i> , 2012, 366, 244-254.	2.0	42
53	Dynamic relationship of the epithelium and mesenchyme during salivary gland initiation: the role of Fgf10. <i>Biology Open</i> , 2013, 2, 981-989.	1.2	41
54	Defects in middle ear cavitation cause conductive hearing loss in the Tcof1 mutant mouse. <i>Human Molecular Genetics</i> , 2010, 19, 1551-1560.	2.9	40

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55	Craniofacial development: current concepts in the molecular basis of Treacher Collins syndrome. <i>British Journal of Oral and Maxillofacial Surgery</i> , 2013, 51, 384-388.	0.8	40
56	The Impact of the <i>Eda</i> Pathway on Tooth Root Development. <i>Journal of Dental Research</i> , 2017, 96, 1290-1297.	5.2	39
57	Viperous fangs: Development and evolution of the venom canal. <i>Mechanisms of Development</i> , 2008, 125, 786-796.	1.7	38
58	Tooth development is independent of a Hox patterning programme. <i>Developmental Dynamics</i> , 2002, 225, 332-335.	1.8	36
59	Species-specific modifications of mandible shape reveal independent mechanisms for growth and initiation of the coronoid. <i>EvoDevo</i> , 2015, 6, 35.	3.2	36
60	Independent induction and formation of the dorsal and ventral fins in <i>Xenopus laevis</i> . <i>Developmental Dynamics</i> , 2004, 230, 461-467.	1.8	35
61	Tooth development in a model reptile: functional and null generation teeth in the gecko <i>Paroedura picta</i> . <i>Journal of Anatomy</i> , 2012, 221, 195-208.	1.5	35
62	The buccohypophyseal canal is an ancestral vertebrate trait maintained by modulation in sonic hedgehog signaling. <i>BMC Biology</i> , 2013, 11, 27.	3.8	35
63	Molecular control of odontogenic patterning: positional dependent initiation and morphogenesis. <i>European Journal of Oral Sciences</i> , 1998, 106, 44-47.	1.5	34
64	Amelogenin in craniofacial development: the tooth as a model to study the role of amelogenin during embryogenesis. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2009, 312B, 445-457.	1.3	34
65	Non-apoptotic functions of caspase-7 during osteogenesis. <i>Cell Death and Disease</i> , 2014, 5, e1366-e1366.	6.3	34
66	Revitalising the rudimentary replacement dentition in the mouse. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	33
67	Shh signalling restricts the expression of Gcm2 and controls the position of the developing parathyroids. <i>Developmental Biology</i> , 2011, 353, 194-205.	2.0	32
68	Embryonic development of the monitor lizard, <i>Varanus indicus</i> . <i>Amphibia - Reptilia</i> , 2012, 33, 451-468.	0.5	32
69	The Intertwined Evolution and Development of Sutures and Cranial Morphology. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 653579.	3.7	31
70	Caspase-7 participates in differentiation of cells forming dental hard tissues. <i>Development Growth and Differentiation</i> , 2013, 55, 615-621.	1.5	30
71	Development and Integration of the Ear. <i>Current Topics in Developmental Biology</i> , 2015, 115, 213-232.	2.2	30
72	The role of transforming growth factor- β signalling in the patterning of the proximal processes of the murine dentary. <i>Developmental Dynamics</i> , 2008, 237, 1604-1613.	1.8	28

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73	Morphogenesis and bone integration of the mouse mandibular third molar. <i>European Journal of Oral Sciences</i> , 2011, 119, 265-274.	1.5	28
74	Diverse Fate of an Enigmatic Structure: 200 Years of Meckel's Cartilage. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 821.	3.7	28
75	Incudomalleal joint formation: the roles of apoptosis, migration and downregulation. <i>BMC Developmental Biology</i> , 2007, 7, 134.	2.1	27
76	Activation of Pro-apoptotic Caspases in Non-apoptotic Cells During Odontogenesis and Related Osteogenesis. <i>Frontiers in Physiology</i> , 2018, 9, 174.	2.8	27
77	Apoptosis of Premigratory Neural Crest Cells in Rhombomeres 3 and 5: Consequences for Patterning of the Branchial Region. <i>Developmental Biology</i> , 2002, 251, 118-128.	2.0	26
78	Apoptotic Signaling in Mouse Odontogenesis. <i>OMICS A Journal of Integrative Biology</i> , 2012, 16, 60-70.	2.0	26
79	Apoptosis in Early Salivary Gland Duct Morphogenesis and Lumen Formation. <i>Journal of Dental Research</i> , 2016, 95, 277-283.	5.2	26
80	Fate of the Molar Dental Lamina in the Monophyodont Mouse. <i>PLoS ONE</i> , 2015, 10, e0127543.	2.5	25
81	Molar tooth development in caspase-3 deficient mice. <i>International Journal of Developmental Biology</i> , 2006, 50, 491-7.	0.6	24
82	Recombinant EDA or Sonic Hedgehog rescue the branching defect in Ectodysplasin A pathway mutant salivary glands in vitro. <i>Developmental Dynamics</i> , 2010, 239, 2674-2684.	1.8	23
83	Hearing Loss in a Mouse Model of 22q11.2 Deletion Syndrome. <i>PLoS ONE</i> , 2013, 8, e80104.	2.5	23
84	A defect in early myogenesis causes Otitis media in two mouse models of 22q11.2 Deletion Syndrome. <i>Human Molecular Genetics</i> , 2015, 24, 1869-1882.	2.9	23
85	Salivary Gland Adaptations: Modification of the Glands for Novel Uses. <i>Frontiers of Oral Biology</i> , 2010, 14, 21-31.	1.5	21
86	Distinct spatiotemporal roles of hedgehog signalling during chick and mouse cranial base and axial skeleton development. <i>Developmental Biology</i> , 2012, 371, 203-214.	2.0	21
87	Root and Eruption Defects in <i>c-Fos</i> Mice Are Driven by Loss of Osteoclasts. <i>Journal of Dental Research</i> , 2015, 94, 1724-1731.	5.2	21
88	Epithelial topography for repetitive tooth formation. <i>Biology Open</i> , 2015, 4, 1625-1634.	1.2	20
89	The Slice Culture Method for Following Development of Tooth Germs In Explant Culture. <i>Journal of Visualized Experiments</i> , 2013, , e50824.	0.3	19
90	Neutron scanning reveals unexpected complexity in the enamel thickness of an herbivorous Jurassic reptile. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180039.	3.4	19

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91	Primary enamel knot cell death in Apaf-1 and caspase-9 deficient mice. Archives of Oral Biology, 2007, 52, 15-19.	1.8	18
92	Developmental aspects of the tympanic membrane: Shedding light on function and disease. Genesis, 2020, 58, e23348.	1.6	18
93	Defects and rescue of the minor salivary glands in Eda pathway mutants. Developmental Biology, 2011, 349, 137-146.	2.0	17
94	Caspase-7 in molar tooth development. Archives of Oral Biology, 2012, 57, 1474-1481.	1.8	17
95	Expression and characterization of c-Myb in prenatal odontogenesis. Development Growth and Differentiation, 2011, 53, 793-803.	1.5	16
96	Complex patterns of tooth replacement revealed in the fruit bat (Eidolon helvum). Journal of Anatomy, 2016, 229, 847-856.	1.5	16
97	Developmental mechanisms driving complex tooth shape in reptiles. Developmental Dynamics, 2020, 249, 441-464.	1.8	16
98	Understanding the development of the respiratory glands. Developmental Dynamics, 2015, 244, 525-539.	1.8	15
99	Developmental mechanisms underlying differential claw expression in the autopodia of geckos. EvoDevo, 2015, 6, 8.	3.2	15
100	Mapping the distribution of stem/progenitor cells across the middle ear during homeostasis and inflammation. Development (Cambridge), 2018, 145, .	2.5	15
101	Transient role of the middle ear as a lower jaw support across mammals. ELife, 2020, 9, .	6.0	15
102	A mesenchymal to epithelial switch in Fgf10 expression specifies an evolutionary-conserved population of ionocytes in salivary glands. Cell Reports, 2022, 39, 110663.	6.4	15
103	Apoptosis-related factors (Fas receptor, Fas ligand, FADD) in early tooth development of the field vole (Microtus agrestis). Archives of Oral Biology, 2005, 50, 165-169.	1.8	14
104	Apoptosis-associated protein expression in human salivary gland morphogenesis. Archives of Oral Biology, 2016, 69, 71-81.	1.8	14
105	High yield expression of biologically active recombinant full length human tuftelin protein in baculovirus-infected insect cells. Protein Expression and Purification, 2009, 68, 90-98.	1.3	12
106	Localization of c-MYB in differentiated cells during postnatal molar and alveolar bone development. European Journal of Oral Sciences, 2012, 120, 495-504.	1.5	12
107	Salivary Gland Dysplasia in Fgf10 Heterozygous Mice: A New Mouse Model of Xerostomia. Current Molecular Medicine, 2015, 15, 674-82.	1.3	12
108	Epithelial dynamics shed light on mechanisms underlying ear canal defects. Development (Cambridge), 2020, 147, .	2.5	11

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109	A comparison of metrics for quantifying cranial suture complexity. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200476.	3.4	10
110	Inhibition of Aurora Kinase B activity disrupts development and differentiation of salivary glands. <i>Cell Death Discovery</i> , 2021, 7, 16.	4.7	10
111	Cell proliferation and apoptosis in the primary enamel knot measured by flow cytometry of laser microdissected samples. <i>Archives of Oral Biology</i> , 2010, 55, 570-575.	1.8	9
112	Getting out of an egg: Merging of tooth germs to create an egg tooth in the snake. <i>Developmental Dynamics</i> , 2020, 249, 199-208.	1.8	9
113	Craniofacial transitions: the role of EMT and MET during head development. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	9
114	Anatomy and Development of the Mammalian External Auditory Canal: Implications for Understanding Canal Disease and Deformity. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 617354.	3.7	9
115	Role of c-Myb in chondrogenesis. <i>Bone</i> , 2015, 76, 97-106.	2.9	8
116	FGF and EDA pathways control initiation and branching of distinct subsets of developing nasal glands. <i>Developmental Biology</i> , 2016, 419, 348-356.	2.0	8
117	Balance Between Tooth Size and Tooth Number Is Controlled by Hyaluronan. <i>Frontiers in Physiology</i> , 2020, 11, 996.	2.8	8
118	Reawakening of Ancestral Dental Potential as a Mechanism to Explain Dental Pathologies. <i>Integrative and Comparative Biology</i> , 2020, 60, 619-629.	2.0	8
119	FGF10 is an essential regulator of tracheal submucosal gland morphogenesis. <i>Developmental Biology</i> , 2019, 451, 158-166.	2.0	7
120	Characteristics of aquaporin 1, 3, and 5 expression during early murine salivary gland development. <i>Journal of Anatomy</i> , 2021, 238, 794-806.	1.5	7
121	Non-apoptotic role for caspase-7 in hair follicles and the surrounding tissue. <i>Journal of Molecular Histology</i> , 2015, 46, 443-455.	2.2	6
122	An Essential Requirement for Fgf10 in Pinna Extension Sheds Light on Auricle Defects in LADD Syndrome. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 609643.	3.7	6
123	The TMJ Disc Is a Common Ancestral Feature in All Mammals, as Evidenced by the Presence of a Rudimentary Disc During Monotreme Development. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 356.	3.7	6
124	Cryptophthalmos, dental anomalies, oral vestibule defect, and a novel FREM2 mutation. <i>Journal of Human Genetics</i> , 2022, 67, 115-118.	2.3	6
125	Interactions between Bmp4 and Msx1 act to restrict gene expression to odontogenic mesenchyme. <i>Developmental Dynamics</i> , 1998, 212, 533-539.	1.8	6
126	The effect of caspase-3 inhibition on interdigital tissue regression in explant cultures of developing mouse limbs. <i>Animal Cells and Systems</i> , 2012, 16, 295-301.	2.2	5

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127	Molecular biology of the mammalian dentary: insights into how complex skeletal elements can be shaped during development and evolution. , 2012, , 207-229.		5
128	Caspase Inhibition Affects the Expression of Autophagy-Related Molecules in Chondrocytes. Cartilage, 2021, 13, 956S-968S.	2.7	5
129	Comparing development and regeneration in the submandibular gland highlights distinct mechanisms. Journal of Anatomy, 2021, 238, 1371-1385.	1.5	5
130	Expanding genotypic and phenotypic spectrums of <i>LTBP3</i> variants in dental anomalies and short stature syndrome. Clinical Genetics, 2022, 102, 66-71.	2.0	5
131	Development of the Vestibular Lamina in Human Embryos: Morphogenesis and Vestibule Formation. Frontiers in Physiology, 2020, 11, 753.	2.8	4
132	Morphology and regression of the dental lamina. Developmental Biology, 2011, 356, 254-255.	2.0	2
133	Q&A: Morphological insights into evolution. BMC Biology, 2017, 15, 83.	3.8	2
134	Impact of hypofunctional occlusion on upper and lower molars after cessation of root development in adult mice. European Journal of Orthodontics, 2016, 39, cjw051.	2.4	1
135	Editorial: Contemporary Models in Ectodermal Organ Development, Maintenance and Regeneration. Frontiers in Physiology, 2021, 12, 758271.	2.8	1
136	Interactions between Bmp-4 and Msx-1 act to restrict gene expression to odontogenic mesenchyme. , 1998, 212, 533.		1
137	Salivary Gland Development in Culture. Methods in Molecular Biology, 2022, 2403, 277-294.	0.9	1
138	Title Pages / List of Contents / Preface. Frontiers of Oral Biology, 2010, , I-VII.	1.5	0
139	Phenotype variation in Treacher Collins Syndrome: from missense to splice site mutations. British Journal of Oral and Maxillofacial Surgery, 2013, 51, 276-277.	0.8	0
140	A Critique of the Toxicoforan Hypothesis. , 2015, , 1-15.		0
141	Introduction. Journal of Anatomy, 2016, 228, 215-216.	1.5	0
142	Nr2fs Take the Upper Hand in the Upper Jaw. Developmental Cell, 2018, 44, 275-276.	7.0	0
143	B.BerkovitzR. P.ShellisThe Teeth of Mammalian Vertebrates. Elsevier, published 17th August 2018. Hardcover ISBN:9780128028186. eBook ISBN:9780128028193.. Journal of Anatomy, 2021, 238, 215-215.	1.5	0
144	A Critique of the Toxicoforan Hypothesis. Toxinology, 2017, , 69-86.	0.2	0

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145	Identification and characterisation of spontaneous mutations causing deafness from a targeted knockout programme. BMC Biology, 2022, 20, 67.	3.8	0