

Lee Niswander

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7161547/publications.pdf>

Version: 2024-02-01

121
papers

12,790
citations

34016

52
h-index

24179

110
g-index

132
all docs

132
docs citations

132
times ranked

12482
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathogenesis of neural tube defects: The regulation and disruption of cellular processes underlying neural tube closure. <i>WIREs Mechanisms of Disease</i> , 2022, 14, e1559.	1.5	7
2	Micronutrient Balance Related to Neural Tube Defects and Prevention. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
3	MusMorph, a database of standardized mouse morphology data for morphometric meta-analyses. <i>Scientific Data</i> , 2022, 9, .	2.4	3
4	Loss of Grhl3 is correlated with altered cellular protrusions in the non-neural ectoderm during neural tube closure. <i>Developmental Dynamics</i> , 2021, 250, 732-744.	0.8	6
5	Micronutrient imbalance and common phenotypes in neural tube defects. <i>Genesis</i> , 2021, 59, e23455.	0.8	14
6	Low folate concentration impacts mismatch repair deficiency in neural tube defects. <i>Epigenomics</i> , 2020, 12, 5-18.	1.0	10
7	Association between rare variants in specific functional pathways and human neural tube defects multiple subphenotypes. <i>Neural Development</i> , 2020, 15, 8.	1.1	14
8	Snx3 is important for mammalian neural tube closure via its role in canonical and non-canonical WNT signaling. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	10
9	Neural tube defects. , 2020, , 179-199.		0
10	GCN5 acetylation is required for craniofacial chondrocyte maturation. <i>Developmental Biology</i> , 2020, 464, 24-34.	0.9	8
11	An Injectable Reverse Thermal Gel for Minimally Invasive Coverage of Mouse Myelomeningocele. <i>Journal of Surgical Research</i> , 2019, 235, 227-236.	0.8	17
12	Genetic contribution of retinoid-related genes to neural tube defects. <i>Human Mutation</i> , 2018, 39, 550-562.	1.1	24
13	Kat2a and Kat2b Acetyltransferase Activity Regulates Craniofacial Cartilage and Bone Differentiation in Zebrafish and Mice. <i>Journal of Developmental Biology</i> , 2018, 6, 27.	0.9	32
14	Intratumoral heterogeneity of endogenous tumor cell invasive behavior in human glioblastoma. <i>Scientific Reports</i> , 2018, 8, 18002.	1.6	29
15	Zinc deficiency causes neural tube defects through attenuation of p53 ubiquitylation. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	35
16	Does DNA methylation provide a link between folate and neural tube closure?. <i>Epigenomics</i> , 2018, 10, 1263-1265.	1.0	8
17	Forming and shaping the field of limb development: A tribute to Dr. John Saunders. <i>Developmental Biology</i> , 2017, 429, 373.	0.9	1
18	Defects in Stratum Corneum Desquamation Are the Predominant Effect of Impaired ABCA12 Function in a Novel Mouse Model of Harlequin Ichthyosis. <i>PLoS ONE</i> , 2016, 11, e0161465.	1.1	25

#	ARTICLE	IF	CITATIONS
19	MEMO1 drives cranial endochondral ossification and palatogenesis. <i>Developmental Biology</i> , 2016, 415, 278-295.	0.9	16
20	Dynamic behaviors of the non-neural ectoderm during mammalian cranial neural tube closure. <i>Developmental Biology</i> , 2016, 416, 279-285.	0.9	26
21	Novel β -tubulin mutation disrupts neural development and tubulin proteostasis. <i>Developmental Biology</i> , 2016, 409, 406-419.	0.9	36
22	Grainyhead-like 2 downstream targets act to suppress EMT during neural tube closure. <i>Development (Cambridge)</i> , 2016, 143, 1192-204.	1.2	51
23	A hypomorphic allele reveals an important role of <i>inturned</i> in mouse skeletal development. <i>Developmental Dynamics</i> , 2015, 244, 736-747.	0.8	14
24	Rectification of muscle and nerve deficits in paralyzed ryanodine receptor type 1 mutant embryos. <i>Developmental Biology</i> , 2015, 404, 76-87.	0.9	6
25	Lin28 promotes the proliferative capacity of neural progenitor cells in brain development. <i>Development (Cambridge)</i> , 2015, 142, 1616-1627.	1.2	109
26	Potassium dependent rescue of a myopathy with core-like structures in mouse. <i>ELife</i> , 2015, 4, .	2.8	8
27	A Recessive ENU Screen Identifies Memo as a Novel Gene Driving Palatogenesis and Cranial base Development. <i>FASEB Journal</i> , 2015, 29, 872.10.	0.2	0
28	A unique missense allele of BAF155, a core BAF chromatin remodeling complex protein, causes neural tube closure defects in mice. <i>Developmental Neurobiology</i> , 2014, 74, 483-497.	1.5	33
29	Genetic, Epigenetic, and Environmental Contributions to Neural Tube Closure. <i>Annual Review of Genetics</i> , 2014, 48, 583-611.	3.2	192
30	Peripheral nervous system defects in a mouse model for peroxisomal biogenesis disorders. <i>Developmental Biology</i> , 2014, 395, 84-95.	0.9	17
31	An explant muscle model to examine the refinement of the synaptic landscape. <i>Journal of Neuroscience Methods</i> , 2014, 238, 95-104.	1.3	7
32	Editorial overview: Developmental mechanisms, patterning and evolution. <i>Current Opinion in Genetics and Development</i> , 2014, 27, v-vii.	1.5	0
33	Advances in the Care of Children with Spina Bifida. <i>Advances in Pediatrics</i> , 2014, 61, 33-74.	0.5	16
34	Microcephaly disease gene <i>Wdr62</i> regulates mitotic progression of embryonic neural stem cells and brain size. <i>Nature Communications</i> , 2014, 5, 3885.	5.8	130
35	Morphogenetic movements in the neural plate and neural tube: mouse. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2014, 3, 59-68.	5.9	31
36	Exploration of the effects of <i>Doublethumb</i> on neural tube development (541.7). <i>FASEB Journal</i> , 2014, 28, 541.7.	0.2	0

#	ARTICLE	IF	CITATIONS
37	Multiparametric image analysis of lung branching morphogenesis. <i>Developmental Dynamics</i> , 2013, 242, 622-637.	0.8	43
38	<i>In toto</i> live imaging of mouse morphogenesis and new insights into neural tube closure. <i>Development (Cambridge)</i> , 2013, 140, 226-236.	1.2	66
39	Scribble is required for normal epithelial cell-cell contacts and lumen morphogenesis in the mammalian lung. <i>Developmental Biology</i> , 2013, 373, 267-280.	0.9	71
40	The Continuing Challenge of Understanding, Preventing, and Treating Neural Tube Defects. <i>Science</i> , 2013, 339, 1222002.	6.0	375
41	Gefitinib selectively inhibits tumor cell migration in EGFR-amplified human glioblastoma. <i>Neuro-Oncology</i> , 2013, 15, 1048-1057.	0.6	40
42	Zic2 is required for enteric nervous system development and neurite outgrowth: a mouse model of enteric hyperplasia and dysplasia. <i>Neurogastroenterology and Motility</i> , 2013, 25, 538-541.	1.6	6
43	The <i>Ptch1^{DL}</i> mouse: A new model to study lambdoid craniosynostosis and basal cell nevus syndrome-associated skeletal defects. <i>Genesis</i> , 2013, 51, 677-689.	0.8	25
44	Phactr4. <i>Cell Adhesion and Migration</i> , 2012, 6, 419-423.	1.1	10
45	Phactr4 regulates directional migration of enteric neural crest through PPI, integrin signaling, and cofilin activity. <i>Genes and Development</i> , 2012, 26, 69-81.	2.7	63
46	Defects in GPI biosynthesis perturb Cripto signaling during forebrain development in two new mouse models of holoprosencephaly. <i>Biology Open</i> , 2012, 1, 874-883.	0.6	45
47	Mechanisms of tissue fusion during development. <i>Development (Cambridge)</i> , 2012, 139, 1701-1711.	1.2	123
48	The ubiquitin ligase mLin41 temporally promotes neural progenitor cell maintenance through FGF signaling. <i>Genes and Development</i> , 2012, 26, 803-815.	2.7	103
49	Nubp1 Is Required for Lung Branching Morphogenesis and Distal Progenitor Cell Survival in Mice. <i>PLoS ONE</i> , 2012, 7, e44871.	1.1	19
50	Grainyhead-like 2 regulates neural tube closure and adhesion molecule expression during neural fold fusion. <i>Developmental Biology</i> , 2011, 353, 38-49.	0.9	129
51	The coiled-coil domain containing protein CCDC40 is essential for motile cilia function and left-right axis formation. <i>Nature Genetics</i> , 2011, 43, 79-84.	9.4	292
52	Folic acid supplementation can adversely affect murine neural tube closure and embryonic survival. <i>Human Molecular Genetics</i> , 2011, 20, 3678-3683.	1.4	71
53	Developmental Basis of Congenital Limb Differences. , 2011, , 1917-1924.		0
54	The developmental reduction of the marsupial coracoid: A case study in <i>Monodelphis domestica</i> . <i>Journal of Morphology</i> , 2010, 271, 769-776.	0.6	8

#	ARTICLE	IF	CITATIONS
55	The PCP genes <i>Celsr1</i> and <i>Vangl2</i> are required for normal lung branching morphogenesis. <i>Human Molecular Genetics</i> , 2010, 19, 2251-2267.	1.4	146
56	The iron exporter ferroportin 1 is essential for development of the mouse embryo, forebrain patterning and neural tube closure. <i>Development (Cambridge)</i> , 2010, 137, 3079-3088.	1.2	44
57	Dynamic imaging of mammalian neural tube closure. <i>Developmental Biology</i> , 2010, 344, 941-947.	0.9	125
58	A mouse model for Meckel syndrome reveals <i>Mks1</i> is required for ciliogenesis and Hedgehog signaling. <i>Human Molecular Genetics</i> , 2009, 18, 4565-4575.	1.4	141
59	<i>C2cd3</i> is required for cilia formation and Hedgehog signaling in mouse. <i>Development (Cambridge)</i> , 2008, 135, 4049-4058.	1.2	84
60	Chapter 7 Methods in Avian Embryology Experimental and Molecular Manipulation of the Embryonic Chick Limb. <i>Methods in Cell Biology</i> , 2008, 87, 135-152.	0.5	3
61	Early Steps in Limb Patterning and Chondrogenesis. <i>Novartis Foundation Symposium</i> , 2008, 232, 23-43.	1.2	27
62	The Evolutionary and Developmental Basis of Parallel Reduction in Mammalian Zeugopod Elements. <i>American Naturalist</i> , 2007, 169, 105-117.	1.0	28
63	The flatiron mutation in mouse ferroportin acts as a dominant negative to cause ferroportin disease. <i>Blood</i> , 2007, 109, 4174-4180.	0.6	93
64	The <i>Hectd1</i> ubiquitin ligase is required for development of the head mesenchyme and neural tube closure. <i>Developmental Biology</i> , 2007, 306, 208-221.	0.9	63
65	Visualization of Cartilage Formation: Insight into Cellular Properties of Skeletal Progenitors and Chondrodysplasia Syndromes. <i>Developmental Cell</i> , 2007, 12, 931-941.	3.1	154
66	<i>Phactr4</i> Regulates Neural Tube and Optic Fissure Closure by Controlling PP1-, Rb-, and E2F1-Regulated Cell-Cycle Progression. <i>Developmental Cell</i> , 2007, 13, 87-102.	3.1	92
67	LDL-receptor-related protein 4 is crucial for formation of the neuromuscular junction. <i>Development (Cambridge)</i> , 2006, 133, 4993-5000.	1.2	282
68	Development of bat flight: Morphologic and molecular evolution of bat wing digits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6581-6586.	3.3	184
69	p38 and a p38-Interacting Protein Are Critical for Downregulation of E-Cadherin during Mouse Gastrulation. <i>Cell</i> , 2006, 125, 957-969.	13.5	217
70	β -catenin activation is necessary and sufficient to specify the dorsal dermal fate in the mouse. <i>Developmental Biology</i> , 2006, 296, 164-176.	0.9	348
71	Interdigital webbing retention in bat wings illustrates genetic changes underlying amniote limb diversification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15103-15107.	3.3	122
72	Molecular signaling in intervertebral disk development. <i>Journal of Orthopaedic Research</i> , 2005, 23, 1112-1119.	1.2	47

#	ARTICLE	IF	CITATIONS
73	Bone morphogenetic protein signalling and vertebrate nervous system development. <i>Nature Reviews Neuroscience</i> , 2005, 6, 945-954.	4.9	285
74	Gli3 and Plzf cooperate in proximal limb patterning at early stages of limb development. <i>Nature</i> , 2005, 436, 277-281.	13.7	89
75	Embryonic staging system for the short-tailed fruit bat, <i>Carollia perspicillata</i> , a model organism for the mammalian order Chiroptera, based upon timed pregnancies in captive-bred animals. <i>Developmental Dynamics</i> , 2005, 233, 721-738.	0.8	116
76	Using genomewide mutagenesis screens to identify the genes required for neural tube closure in the mouse. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2005, 73, 583-590.	1.6	51
77	Tissue morphogenesis and vascular stability require the Frem2 protein, product of the mouse myelencephalic blebs gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11746-11750.	3.3	53
78	Mouse intraflagellar transport proteins regulate both the activator and repressor functions of Gli transcription factors. <i>Development (Cambridge)</i> , 2005, 132, 3103-3111.	1.2	472
79	The Activin signaling pathway promotes differentiation of dl3 interneurons in the spinal neural tube. <i>Developmental Biology</i> , 2005, 285, 1-10.	0.9	25
80	Canonical Wnt signaling negatively regulates branching morphogenesis of the lung and lacrimal gland. <i>Developmental Biology</i> , 2005, 286, 270-286.	0.9	91
81	Plasmid-based short-hairpin RNA interference in the chicken embryo. <i>Genesis</i> , 2004, 39, 73-78.	0.8	53
82	Dlx genes integrate positive and negative signals during feather bud development. <i>Developmental Biology</i> , 2004, 265, 219-233.	0.9	27
83	Coordinate regulation of neural tube patterning and proliferation by TGF β 2 and WNT activity. <i>Developmental Biology</i> , 2004, 274, 334-347.	0.9	130
84	Homozygous WNT3 Mutation Causes Tetra-Amelia in a Large Consanguineous Family. <i>American Journal of Human Genetics</i> , 2004, 74, 558-563.	2.6	262
85	Cell polarity pathways converge and extend to regulate neural tube closure. <i>Trends in Cell Biology</i> , 2003, 13, 451-454.	3.6	25
86	ALC (adjacent to LMX1 in chick) is a novel dorsal limb mesenchyme marker. <i>Gene Expression Patterns</i> , 2003, 3, 735-741.	0.3	7
87	Hedgehog signalling in the mouse requires intraflagellar transport proteins. <i>Nature</i> , 2003, 426, 83-87.	13.7	1,260
88	Pattern formation: old models out on a limb. <i>Nature Reviews Genetics</i> , 2003, 4, 133-143.	7.7	220
89	EGF Signaling Patterns the Feather Array by Promoting the Interbud Fate. <i>Developmental Cell</i> , 2003, 4, 231-240.	3.1	39
90	FGF17b and FGF18 have different midbrain regulatory properties from FGF8b or activated FGF receptors. <i>Development (Cambridge)</i> , 2003, 130, 6175-6185.	1.2	107

#	ARTICLE	IF	CITATIONS
91	BMP signaling patterns the dorsal and intermediate neural tube via regulation of homeobox and helix-loop-helix transcription factors. <i>Development (Cambridge)</i> , 2002, 129, 2459-2472.	1.2	218
92	BMP signaling patterns the dorsal and intermediate neural tube via regulation of homeobox and helix-loop-helix transcription factors. <i>Development (Cambridge)</i> , 2002, 129, 2459-72.	1.2	100
93	Interplay between the molecular signals that control vertebrate limb development. <i>International Journal of Developmental Biology</i> , 2002, 46, 877-81.	0.3	78
94	Expression of slit-2 and slit-3 during chick development. <i>Developmental Dynamics</i> , 2001, 222, 301-307.	0.8	82
95	The use of in ovo electroporation for the rapid analysis of neural-specific murine enhancers. <i>Genesis</i> , 2001, 29, 123-132.	0.8	56
96	BMP controls proximodistal outgrowth, via induction of the apical ectodermal ridge, and dorsoventral patterning in the vertebrate limb. <i>Development (Cambridge)</i> , 2001, 128, 4463-4474.	1.2	154
97	Plzf regulates limb and axial skeletal patterning. <i>Nature Genetics</i> , 2000, 25, 166-172.	9.4	269
98	BMPs Are Required at Two Steps of Limb Chondrogenesis: Formation of Prechondrogenic Condensations and Their Differentiation into Chondrocytes. <i>Developmental Biology</i> , 2000, 219, 237-249.	0.9	280
99	Legs to wings and back again. <i>Nature</i> , 1999, 398, 751-752.	13.7	8
100	Inhibition of NF- κ B activity results in disruption of the apical ectodermal ridge and aberrant limb morphogenesis. <i>Nature</i> , 1998, 392, 615-618.	13.7	163
101	Disruption of Scale Development by Delta-1 Misexpression. <i>Developmental Biology</i> , 1998, 195, 70-74.	0.9	36
102	Expression of a Constitutively Active Type I BMP Receptor Using a Retroviral Vector Promotes the Development of Adrenergic Cells in Neural Crest Cultures. <i>Developmental Biology</i> , 1998, 196, 107-118.	0.9	53
103	Distinct roles of type I bone morphogenetic protein receptors in the formation and differentiation of cartilage. <i>Genes and Development</i> , 1997, 11, 2191-2203.	2.7	465
104	BMP Expression in Duck Interdigital Webbing: A Reanalysis. <i>Science</i> , 1997, 278, 305-305.	6.0	38
105	Limb mutants: what can they tell us about normal limb development?. <i>Current Opinion in Genetics and Development</i> , 1997, 7, 530-536.	1.5	38
106	Growth Factor Interactions in Limb Development. <i>Annals of the New York Academy of Sciences</i> , 1996, 785, 23-26.	1.8	14
107	Requirement for BMP Signaling in Interdigital Apoptosis and Scale Formation. <i>Science</i> , 1996, 272, 738-741.	6.0	533
108	Interaction between the signaling molecules WNT7a and SHH during vertebrate limb development: Dorsal signals regulate anteroposterior patterning. <i>Cell</i> , 1995, 80, 939-947.	13.5	312

#	ARTICLE	IF	CITATIONS
109	Effect of FGF on Gene Expression in Chick Limb Bud Cells in Vivo and in Vitro. <i>Developmental Biology</i> , 1995, 171, 507-520.	0.9	53
110	Function of FGF-4 in limb development. <i>Molecular Reproduction and Development</i> , 1994, 39, 83-89.	1.0	44
111	A positive feedback loop coordinates growth and patterning in the vertebrate limb. <i>Nature</i> , 1994, 371, 609-612.	13.7	665
112	FGF-4 and BMP-2 have opposite effects on limb growth. <i>Nature</i> , 1993, 361, 68-71.	13.7	371
113	FGF-4 replaces the apical ectodermal ridge and directs outgrowth and patterning of the limb. <i>Cell</i> , 1993, 75, 579-587.	13.5	637
114	Chromosome jumping from flanking markers defines the minimal region for <i>alf/hsdr-1</i> within the albino-deletion complex. <i>Genomics</i> , 1992, 14, 288-297.	1.3	18
115	Physical mapping of the albino-deletion complex in the mouse to localize <i>alf/hsdr-1</i> , a locus required for neonatal survival. <i>Genomics</i> , 1992, 14, 275-287.	1.3	36
116	Molecular mapping of albino deletions associated with early embryonic lethality in the mouse. <i>Genomics</i> , 1991, 9, 162-169.	1.3	36
117	Organization and Nucleotide Sequence of the 3' End of the Human CAD Gene. <i>DNA and Cell Biology</i> , 1990, 9, 667-676.	0.9	20
118	Identification and localization of DNA alteration in Chinese hamster ovary cell mutants (Urd?) defective in the first three enzymes of de novo pyrimidine synthesis. <i>Somatic Cell and Molecular Genetics</i> , 1985, 11, 379-390.	0.7	4
119	Expression of Genes on Human Chromosome 21. <i>Annals of the New York Academy of Sciences</i> , 1985, 450, 43-54.	1.8	7
120	Partial cDNA sequence to a hamster gene corrects defect in <i>Escherichia coli</i> <i>pyrB</i> mutant.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983, 80, 6897-6901.	3.3	20
121	Glutathione-S-transferase is present in a variety of microorganisms. <i>Chemosphere</i> , 1980, 9, 565-569.	4.2	44