

Linda Z Holland

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8598765/publications.pdf>

Version: 2024-02-01

109
papers

7,343
citations

53794

45
h-index

58581

82
g-index

111
all docs

111
docs citations

111
times ranked

4377
citing authors

#	ARTICLE	IF	CITATIONS
1	The amphioxus genome and the evolution of the chordate karyotype. <i>Nature</i> , 2008, 453, 1064-1071.	27.8	1,496
2	The amphioxus genome illuminates vertebrate origins and cephalochordate biology. <i>Genome Research</i> , 2008, 18, 1100-1111.	5.5	456
3	Axial patterning in cephalochordates and the evolution of the organizer. <i>Nature</i> , 2007, 445, 613-617.	27.8	242
4	Pax6 Six3 Eya Dach network during amphioxus development: Conservation in vitro but context specificity in vivo. <i>Developmental Biology</i> , 2007, 306, 143-159.	2.0	158
5	Three Amphioxus Wnt Genes (AmphiWnt3, AmphiWnt5, and AmphiWnt6) Associated with the Tail Bud: the Evolution of Somitogenesis in Chordates. <i>Developmental Biology</i> , 2001, 240, 262-273.	2.0	139
6	Evolution of bilaterian central nervous systems: a single origin?. <i>EvoDevo</i> , 2013, 4, 27.	3.2	139
7	Retinoic acid signaling and the evolution of chordates. <i>International Journal of Biological Sciences</i> , 2006, 2, 38-47.	6.4	136
8	Evolution of neural crest and placodes: amphioxus as a model for the ancestral vertebrate?. <i>Journal of Anatomy</i> , 2001, 199, 85-98.	1.5	127
9	<i>AmphiPax3/7</i> , an amphioxus paired box gene: insights into chordate myogenesis, neurogenesis, and the possible evolutionary precursor of definitive vertebrate neural crest. <i>Evolution & Development</i> , 1999, 1, 153-165.	2.0	118
10	A retinoic acid-Hox hierarchy controls both anterior/posterior patterning and neuronal specification in the developing central nervous system of the cephalochordate amphioxus. <i>Developmental Biology</i> , 2006, 296, 190-202.	2.0	116
11	Evolution of Lactate Dehydrogenase-A Homologs of Barracuda Fishes (Genus <i>Sphyraena</i>) from Different Thermal Environments: A Differences in Kinetic Properties and Thermal Stability Are Due to Amino Acid Substitutions Outside the Active Site. <i>Biochemistry</i> , 1997, 36, 3207-3215.	2.5	115
12	Chordate origins of the vertebrate central nervous system. <i>Current Opinion in Neurobiology</i> , 1999, 9, 596-602.	4.2	114
13	The retinoic acid signaling pathway regulates anterior/posterior patterning in the nerve cord and pharynx of amphioxus, a chordate lacking neural crest. <i>Development (Cambridge)</i> , 2002, 129, 2905-2916.	2.5	110
14	Chordate roots of the vertebrate nervous system: expanding the molecular toolkit. <i>Nature Reviews Neuroscience</i> , 2009, 10, 736-746.	10.2	102
15	A Gbx homeobox gene in amphioxus: Insights into ancestry of the ANTP class and evolution of the midbrain/hindbrain boundary. <i>Developmental Biology</i> , 2006, 295, 40-51.	2.0	98
16	Retinoic acid signaling acts via Hox1 to establish the posterior limit of the pharynx in the chordate amphioxus. <i>Development (Cambridge)</i> , 2005, 132, 61-73.	2.5	96
17	Heads or Tails? Amphioxus and the Evolution of Anterior-Posterior Patterning in Deuterostomes. <i>Developmental Biology</i> , 2002, 241, 209-228.	2.0	90
18	The <i>Ciona intestinalis</i> genome: When the constraints are off. <i>BioEssays</i> , 2003, 25, 529-532.	2.5	89

#	ARTICLE	IF	CITATIONS
19	Cephalochordate (Amphioxus) Embryos: Procurement, Culture, and Basic Methods. <i>Methods in Cell Biology</i> , 2004, 74, 195-215.	1.1	86
20	Sequence and developmental expression of amphioxus <i>AmphiNk2-1</i> : insights into the evolutionary origin of the vertebrate thyroid gland and forebrain. <i>Development Genes and Evolution</i> , 1999, 209, 254-259.	0.9	85
21	Evolutionary Conservation of the Presumptive Neural Plate Markers <i>AmphiSox1/2/3</i> and <i>AmphiNeurogenin</i> in the Invertebrate Chordate <i>Amphioxus</i> . <i>Developmental Biology</i> , 2000, 226, 18-33.	2.0	85
22	An amphioxus nodal gene (<i>AmphiNodal</i>) with early symmetrical expression in the organizer and mesoderm and later asymmetrical expression associated with left-right axis formation. <i>Evolution & Development</i> , 2002, 4, 418-425.	2.0	83
23	An amphioxus winged helix/forkhead gene, <i>AmphiFoxD</i> : Insights into vertebrate neural crest evolution. <i>Developmental Dynamics</i> , 2002, 225, 289-297.	1.8	82
24	Opposing <i>Nodal/Vg1</i> and <i>BMP</i> signals mediate axial patterning in embryos of the basal chordate amphioxus. <i>Developmental Biology</i> , 2010, 344, 377-389.	2.0	81
25	<i>AmphiBMP2/4</i> , an amphioxus bone morphogenetic protein closely related to <i>Drosophila</i> <i>decapentaplegic</i> and vertebrate <i>BMP2</i> and <i>BMP4</i> : Insights into evolution of dorsoventral axis specification. <i>Developmental Dynamics</i> , 1998, 213, 130-139.	1.8	76
26	Retinoic acid influences anteroposterior positioning of epidermal sensory neurons and their gene expression in a developing chordate (amphioxus). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10320-10325.	7.1	75
27	The Transcriptome of an <i>Amphioxus</i> , <i>Asymmetron lucayanum</i> , from the Bahamas: A Window into Chordate Evolution. <i>Genome Biology and Evolution</i> , 2014, 6, 2681-2696.	2.5	72
28	Retinoic acid and <i>Wnt/β2-catenin</i> have complementary roles in anterior/posterior patterning embryos of the basal chordate amphioxus. <i>Developmental Biology</i> , 2009, 332, 223-233.	2.0	70
29	Tunicates. <i>Current Biology</i> , 2016, 26, R146-R152.	3.9	70
30	Fertilization in <i>Oikopleura dioica</i> (Tunicata, Appendicularia): Acrosome reaction, cortical reaction and sperm-egg fusion. <i>Zoomorphology</i> , 1988, 108, 229-243.	0.8	68
31	Asymmetric localization of germline markers <i>Vasa</i> and <i>Nanos</i> during early development in the amphioxus <i>Branchiostoma floridae</i> . <i>Developmental Biology</i> , 2011, 353, 147-159.	2.0	66
32	A new look at an old question: when did the second whole genome duplication occur in vertebrate evolution?. <i>Genome Biology</i> , 2018, 19, 209.	8.8	63
33	Characterization of amphioxus <i>AmphiWnt8</i> : insights into the evolution of patterning of the embryonic dorsoventral axis. <i>Evolution & Development</i> , 2000, 2, 85-92.	2.0	62
34	Sequence and Expression of Amphioxus Alkali Myosin Light Chain (<i>AmphiMLC-alk</i>) Throughout Development: Implications for Vertebrate Myogenesis. <i>Developmental Biology</i> , 1995, 171, 665-676.	2.0	61
35	Expression of estrogen receptor related receptors in amphioxus and zebrafish: implications for the evolution of posterior brain segmentation at the invertebrate to vertebrate transition. <i>Evolution & Development</i> , 2005, 7, 223-233.	2.0	59
36	Tissue-specific expression of <i>FoxD</i> reporter constructs in amphioxus embryos. <i>Developmental Biology</i> , 2004, 274, 452-461.	2.0	58

#	ARTICLE	IF	CITATIONS
37	Body-plan evolution in the Bilateria: early antero-posterior patterning and the deuterostomeâ€“protostome dichotomy. <i>Current Opinion in Genetics and Development</i> , 2000, 10, 434-442.	3.3	56
38	A cDNA resource for the cephalochordate amphioxus <i>Branchiostoma floridae</i> . <i>Development Genes and Evolution</i> , 2008, 218, 723-727.	0.9	55
39	Serotoninâ€“containing Cells in the Nervous System and Other Tissues During Ontogeny of a Lancelet, <i>Branchiostoma floridae</i> . <i>Acta Zoologica</i> , 1993, 74, 195-204.	0.8	53
40	Retinoic acid signaling targets Hox genes during the amphioxus gastrula stage: Insights into early anteriorâ€“posterior patterning of the chordate body plan. <i>Developmental Biology</i> , 2010, 338, 98-106.	2.0	53
41	Characterization and Developmental Expression of the Amphioxus Homolog of Notch (AmphiNotch): Evolutionary Conservation of Multiple Expression Domains in Amphioxus and Vertebrates. <i>Developmental Biology</i> , 2001, 232, 493-507.	2.0	52
42	Evolution of neural crest and placodes: amphioxus as a model for the ancestral vertebrate?. <i>Journal of Anatomy</i> , 2001, 199, 85-98.	1.5	52
43	Scenarios for the making of vertebrates. <i>Nature</i> , 2015, 520, 450-455.	27.8	51
44	Fine Structural Study of the Cortical Reaction and Formation of the Egg Coats in a Lancelet (=) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46</i> . <i>Biological Bulletin</i> , 1989, 176, 111-122.	1.8	49
45	Nuclear β -catenin promotes non-neural ectoderm and posterior cell fates in amphioxus embryos. <i>Developmental Dynamics</i> , 2005, 233, 1430-1443.	1.8	49
46	Expression of somite segmentation genes in amphioxus: a clock without a wavefront?. <i>Development Genes and Evolution</i> , 2008, 218, 599-611.	0.9	48
47	Engrailed Expression during Development of a Lamprey, <i>Lampetra japonica</i> : A Possible Clue to Homologies between Agnathan and Gnathostome Muscles of the Mandibular Arch. (<i>lamprey/engrailed/mandibular arch/myogenesis/homology</i>). <i>Development Growth and Differentiation</i> , 1993, 35, 153-160.	1.5	47
48	Non-neural ectoderm is really neural: evolution of developmental patterning mechanisms in the non-neural ectoderm of chordates and the problem of sensory cell homologies. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 304-323.	1.3	46
49	Amphioxus and the Utility of Molecular Genetic Data for Hypothesizing Body Part Homologies between Distantly Related Animals. <i>American Zoologist</i> , 1999, 39, 630-640.	0.7	45
50	AmphiFoxQ2, a novel winged helix/forkhead gene, exclusively marks the anterior end of the amphioxus embryo. <i>Development Genes and Evolution</i> , 2003, 213, 102-105.	0.9	45
51	Developmental Gene Expression in Amphioxus: New Insights into the Evolutionary Origin of Vertebrate Brain Regions, Neural Crest, and Rostrocaudal Segmentation. <i>American Zoologist</i> , 1998, 38, 647-658.	0.7	44
52	AmphioxusAmphiDelta: evolution of delta protein structure, segmentation, and neurogenesis. <i>Genesis</i> , 2007, 45, 113-122.	1.6	43
53	A chordate with a difference. <i>Nature</i> , 2007, 447, 153-154.	27.8	43
54	Gene Duplication, Co-Option and Recruitment during the Origin of the Vertebrate Brain from the Invertebrate Chordate Brain. <i>Brain, Behavior and Evolution</i> , 2008, 72, 91-105.	1.7	43

#	ARTICLE	IF	CITATIONS
55	Amphioxus and the evolution of head segmentation. Integrative and Comparative Biology, 2008, 48, 630-646.	2.0	43
56	Characterization of amphioxus amphivent, an evolutionarily conserved marker for chordate ventral mesoderm. Genesis, 2001, 29, 172-179.	1.6	39
57	Evolution of new characters after whole genome duplications: Insights from amphioxus. Seminars in Cell and Developmental Biology, 2013, 24, 101-109.	5.0	39
58	Characterization of an amphioxus Wnt gene, AmphiWnt11, with possible roles in myogenesis and tail outgrowth. Genesis, 2000, 27, 1-5.	1.6	38
59	Amphioxus Whole-Mount In Situ Hybridization. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5286.	0.3	38
60	The origin and evolution of chordate nervous systems. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20150048.	4.0	38
61	Genomics, evolution and development of amphioxus and tunicates: The Goldilocks principle. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2015, 324, 342-352.	1.3	38
62	Differential mesodermal expression of two amphioxus MyoD family members (AmphiMRF1 and AmphiMRF2). Development, 2010, 137, 1079-1088.	0.8	36
63	A revised fate map for amphioxus and the evolution of axial patterning in chordates. Integrative and Comparative Biology, 2007, 47, 360-372.	2.0	36
64	Stage- and tissue-specific patterns of cell division in embryonic and larval tissues of amphioxus during normal development. Evolution & Development, 2006, 8, 142-149.	2.0	35
65	Laboratory Spawning and Development of the Bahama Lancelet, <i>Asymmetron lucayanum</i> (Cephalochordata): Fertilization Through Feeding Larvae. Biological Bulletin, 2010, 219, 132-141.	1.8	35
66	Essential role of Dkk3 for head formation by inhibiting Wnt/β-catenin and Nodal/Vg1 signaling pathways in the basal chordate amphioxus. Evolution & Development, 2012, 14, 338-350.	2.0	35
67	NSF workshop report: Discovering general principles of nervous system organization by comparing brain maps across species. Journal of Comparative Neurology, 2014, 522, 1445-1453.	1.6	35
68	Characterization of two amphioxus Wnt genes (AmphiWnt4 and AmphiWnt7b) with early expression in the developing central nervous system. , 2000, 217, 205-215.		34
69	The basal chordate amphioxus as a simple model for elucidating developmental mechanisms in vertebrates. Birth Defects Research Part C: Embryo Today Reviews, 2008, 84, 175-187.	3.6	34
70	Characterization and developmental expression of AmphiNk2-2, an NK2 class homeobox gene from amphioxus (Phylum Chordata; Subphylum Cephalochordata). Development Genes and Evolution, 1998, 208, 100-105.	0.9	33
71	Evolution of basal deuterostome nervous systems. Journal of Experimental Biology, 2015, 218, 637-645.	1.7	33
72	The retinoic acid signaling pathway regulates anterior/posterior patterning in the nerve cord and pharynx of amphioxus, a chordate lacking neural crest. Development (Cambridge), 2002, 129, 2905-16.	2.5	32

#	ARTICLE	IF	CITATIONS
73	Cephalochordates (Amphioxus or Lancelets): A Model for Understanding the Evolution of Chordate Characters: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo130.	0.3	31
74	An amphioxus LIM-homeobox gene, <i>AmphiLim1/5</i> , expressed early in the invaginating organizer region and later in differentiating cells of the kidney and central nervous system. International Journal of Biological Sciences, 2006, 2, 110-116.	6.4	30
75	Differential gene expression and intracellular mRNA localization of amphioxus actin isoforms throughout development: Implications for conserved mechanisms of chordate development. Development Genes and Evolution, 1997, 207, 203-215.	0.9	28
76	Roles of retinoic acid and Tbx1/10 in pharyngeal segmentation: amphioxus and the ancestral chordate condition. EvoDevo, 2014, 5, 36.	3.2	27
77	The Evolution of Alternative Splicing in the Pax Family: The View from the Basal Chordate Amphioxus. Journal of Molecular Evolution, 2008, 66, 605-620.	1.8	26
78	Early development of cephalochordates (amphioxus). Wiley Interdisciplinary Reviews: Developmental Biology, 2012, 1, 167-183.	5.9	26
79	Functional equivalency of amphioxus and vertebrate Pax258 transcription factors suggests that the activation of mid-hindbrain specific genes in vertebrates occurs via the recruitment of Pax regulatory elements. Gene, 2002, 282, 143-150.	2.2	23
80	Conserved Noncoding Elements in the Most Distant Genera of Cephalochordates: The Goldilocks Principle. Genome Biology and Evolution, 2016, 8, 2387-2405.	2.5	23
81	Sequence and developmental expression of <i>AmphiTob</i> , an amphioxus homolog of vertebrate <i>Tob</i> in the PC3/BTG1/ <i>Tob</i> family of tumor suppressor genes. Developmental Dynamics, 1997, 210, 11-18.	1.8	22
82	Developmental expression of the three iroquois genes of amphioxus (<i>BflrxA</i> , <i>BflrxB</i> , and <i>BflrxC</i>) with special attention to the gastrula organizer and anteroposterior boundaries in the central nervous system. Gene Expression Patterns, 2009, 9, 329-334.	0.8	21
83	The amphioxus T-box gene, <i>AmphiTbx15/18/22</i> , illuminates the origins of chordate segmentation. Evolution & Development, 2006, 8, 119-129.	2.0	20
84	The fine structure of the growth stage oocytes of a lancelet (= amphioxus), <i>Branchiostoma lanceolatum</i> . Invertebrate Reproduction and Development, 1991, 19, 107-122.	0.8	19
85	Expression of the <i>AmphiTcf</i> gene in amphioxus: Insights into the evolution of the TCF/LEF gene family during vertebrate evolution. Developmental Dynamics, 2006, 235, 3396-3403.	1.8	19
86	The Florida amphioxus (Cephalochordata) hosts larvae of the tapeworm <i>Acanthobothrium brevis</i> : natural history, anatomy and taxonomic identification of the parasite. Acta Zoologica, 2009, 90, 75-86.	0.8	18
87	COVID-19 microthrombosis: unusually large VWF multimers are a platform for activation of the alternative complement pathway under cytokine storm. International Journal of Hematology, 2022, 115, 457-469.	1.6	18
88	A proposal to sequence the amphioxus genome submitted to the joint genome institute of the US department of energy. The Journal of Experimental Zoology, 2003, 300B, 5-22.	1.4	17
89	Fine Structure of the Mesothelia and Extracellular Materials in the Coelomic Fluid of the Fin Boxes, Myocoels and Sclero-coels of a Lancelet, <i>Branchiostoma floridae</i> (Cephalochordata = Acrania). Acta Zoologica, 1990, 71, 225-234.	0.8	15
90	Cis-regulation of the amphioxus engrailed gene: Insights into evolution of a muscle-specific enhancer. Mechanisms of Development, 2007, 124, 532-542.	1.7	15

#	ARTICLE	IF	CITATIONS
91	Alternative Splicing in Development and Function of Chordate Endocrine Systems: A Focus on Pax Genes. <i>Integrative and Comparative Biology</i> , 2010, 50, 22-34.	2.0	12
92	Analyses of Gene Function in Amphioxus Embryos by Microinjection of mRNAs and Morpholino Oligonucleotides. <i>Methods in Molecular Biology</i> , 2011, 770, 423-438.	0.9	11
93	Tail regression induced by elevated retinoic acid signaling in amphioxus larvae occurs by tissue remodeling, not cell death. <i>Evolution & Development</i> , 2011, 13, 427-435.	2.0	11
94	Hybrids Between the Florida Amphioxus (<i>Branchiostoma floridae</i>) and the Bahamas Lancelet (<i>Asymmetron lucayanum</i>): Developmental Morphology and Chromosome Counts. <i>Biological Bulletin</i> , 2015, 228, 13-24.	1.8	11
95	"Insights of Early Chordate Genomics: Endocrinology and Development in Amphioxus, Tunicates and Lampreys": Introduction to the symposium. <i>Integrative and Comparative Biology</i> , 2010, 50, 17-21.	2.0	10
96	The Function and Developmental Expression of Alternatively Spliced Isoforms of Amphioxus and <i>Xenopus laevis</i> Pax2/5/8 Genes: Revealing Divergence at the Invertebrate to Vertebrate Transition. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2012, 318, 555-571.	1.3	10
97	The Fine Structure of the Testis of a Lancelet (=Amphioxus), <i>Branchiostoma floridae</i> (Phylum Tj ETQq1 1 0.784314 rgBT /Over	0.8	9
98	The ups and downs of amphioxus biology: a history. <i>International Journal of Developmental Biology</i> , 2017, 61, 575-583.	0.6	9
99	Cephalochordates: A window into vertebrate origins. <i>Current Topics in Developmental Biology</i> , 2021, 141, 119-147.	2.2	8
100	A SINE in the genome of the cephalochordate amphioxus is an Alu element. <i>International Journal of Biological Sciences</i> , 2006, 2, 61-65.	6.4	8
101	Amphioxus genomics. <i>Briefings in Functional Genomics</i> , 2012, 11, 87-88.	2.7	6
102	The evolution of genes encoding for green fluorescent proteins: insights from cephalochordates (amphioxus). <i>Scientific Reports</i> , 2016, 6, 28350.	3.3	6
103	AmphiBMP2/4, an amphioxus bone morphogenetic protein closely related to <i>Drosophila</i> decapentaplegic and vertebrate BMP2 and BMP4: Insights into evolution of dorsoventral axis specification. <i>Developmental Dynamics</i> , 1998, 213, 130-139.	1.8	6
104	Cephalochordata. , 2015, , 91-133.		5
105	Nodal and Hedgehog synergize in gill slit formation during development of the cephalochordate <i>Branchiostoma floridae</i> . <i>Development (Cambridge)</i> , 2018, 145, .	2.5	5
106	Laboratory Culture and Mutagenesis of Amphioxus (<i>Branchiostoma floridae</i>). <i>Methods in Molecular Biology</i> , 2021, 2219, 1-29.	0.9	5
107	The invertebrate chordate amphioxus gives clues to vertebrate origins. <i>Current Topics in Developmental Biology</i> , 2022, 147, 563-594.	2.2	3
108	Sequence and developmental expression of AmphiTob, an amphioxus homolog of vertebrate Tob in the PC3/BTG1/Tob family of tumor suppressor genes. <i>Developmental Dynamics</i> , 1997, 210, 11-18.	1.8	2

#	ARTICLE	IF	CITATIONS
109	BIO. Evolution & Development, 2010, 12, 109-112.	2.0	0