

Linda Z Holland

List of Publications by Citations

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107
papers

6,249
citations

41
h-index

76
g-index

111
ext. papers

6,862
ext. citations

5.2
avg. IF

5.77
L-index

#	Paper	IF	Citations
107	The amphioxus genome and the evolution of the chordate karyotype. <i>Nature</i> , 2008 , 453, 1064-71	50.4	1266
106	The amphioxus genome illuminates vertebrate origins and cephalochordate biology. <i>Genome Research</i> , 2008 , 18, 1100-11	9.7	387
105	Axial patterning in cephalochordates and the evolution of the organizer. <i>Nature</i> , 2007 , 445, 613-7	50.4	203
104	Pax-Six-Eya-Dach network during amphioxus development: conservation in vitro but context specificity in vivo. <i>Developmental Biology</i> , 2007 , 306, 143-59	3.1	137
103	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, 262-73	3.1	125
102	Evolution of neural crest and placodes: amphioxus as a model for the ancestral vertebrate?. <i>Journal of Anatomy</i> , 2001 , 199, 85-98	2.9	114
101	Evolution of bilaterian central nervous systems: a single origin?. <i>EvoDevo</i> , 2013 , 4, 27	3.2	110
100	AmphiPax3/7, 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, 153-65	2.6	109
99	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	3.1	107
98	Chordate origins of the vertebrate central nervous system. <i>Current Opinion in Neurobiology</i> , 1999 , 9, 596-602	7.6	103
97	Evolution of lactate dehydrogenase-A homologs of barracuda fishes (genus <i>Sphyraena</i>) from different thermal environments: differences in kinetic properties and thermal stability are due to amino acid substitutions outside the active site. <i>Biochemistry</i> , 1997 , 36, 3207-15	3.2	101
96	Retinoic acid signaling and the evolution of chordates. <i>International Journal of Biological Sciences</i> , 2006 , 2, 38-47	11.2	99
95	Chordate roots of the vertebrate nervous system: expanding the molecular toolkit. <i>Nature Reviews Neuroscience</i> , 2009 , 10, 736-46	13.5	93
94	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	6.6	91
93	The <i>Ciona intestinalis</i> genome: when the constraints are off. <i>BioEssays</i> , 2003 , 25, 529-32	4.1	87
92	Heads or tails? Amphioxus and the evolution of anterior-posterior patterning in deuterostomes. <i>Developmental Biology</i> , 2002 , 241, 209-28	3.1	81
91	An amphioxus winged helix/forkhead gene, AmphiFoxD: insights into vertebrate neural crest evolution. <i>Developmental Dynamics</i> , 2002 , 225, 289-97	2.9	79

90	An amphioxus nodal gene (AmphiNodal) 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, 418-25	2.6	79
89	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	6.6	78
88	Cephalochordate (amphioxus) embryos: procurement, culture, and basic methods. <i>Methods in Cell Biology</i> , 2004 , 74, 195-215	1.8	77
87	Evolutionary conservation of the presumptive neural plate markers AmphiSox1/2/3 and AmphiNeurogenin in the invertebrate chordate amphioxus. <i>Developmental Biology</i> , 2000 , 226, 18-33	3.1	75
86	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	3.1	73
85	Sequence and developmental expression of amphioxus AmphiNk2-1: insights into the evolutionary origin of the vertebrate thyroid gland and forebrain. <i>Development Genes and Evolution</i> , 1999 , 209, 254-9	1.8	72
84	AmphiBMP2/4, an amphioxus bone morphogenetic protein closely related to Drosophila decapentaplegic and vertebrate BMP2 and BMP4: insights into evolution of dorsoventral axis specification. <i>Developmental Dynamics</i> , 1998 , 213, 130-9	2.9	71
83	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, 10320-5	11.5	71
82	Opposing Nodal/Vg1 and BMP signals mediate axial patterning in embryos of the basal chordate amphioxus. <i>Developmental Biology</i> , 2010 , 344, 377-89	3.1	70
81	Retinoic acid and Wnt/beta-catenin have complementary roles in anterior/posterior patterning embryos of the basal chordate amphioxus. <i>Developmental Biology</i> , 2009 , 332, 223-33	3.1	63
80	Asymmetric localization of germline markers Vasa and Nanos during early development in the amphioxus <i>Branchiostoma floridae</i> . <i>Developmental Biology</i> , 2011 , 353, 147-59	3.1	60
79	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, 223-33	2.6	57
78	Characterization of amphioxus AmphiWnt8: insights into the evolution of patterning of the embryonic dorsoventral axis. <i>Evolution & Development</i> , 2000 , 2, 85-92	2.6	57
77	Sequence and expression of amphioxus alkali myosin light chain (AmphiMLC-alk) throughout development: implications for vertebrate myogenesis. <i>Developmental Biology</i> , 1995 , 171, 665-76	3.1	55
76	The transcriptome of an amphioxus, <i>Asymmetron lucayanum</i> , from the Bahamas: a window into chordate evolution. <i>Genome Biology and Evolution</i> , 2014 , 6, 2681-96	3.9	52
75	Tissue-specific expression of FoxD reporter constructs in amphioxus embryos. <i>Developmental Biology</i> , 2004 , 274, 452-61	3.1	52
74	Fertilization in <i>Oikopleura dioica</i> (Tunicata, Appendicularia): Acrosome reaction, cortical reaction and sperm-egg fusion. <i>Zoomorphology</i> , 1988 , 108, 229-243	1	52
73	A cDNA resource for the cephalochordate amphioxus <i>Branchiostoma floridae</i> . <i>Development Genes and Evolution</i> , 2008 , 218, 723-7	1.8	51

72	Body-plan evolution in the Bilateria: early antero-posterior patterning and the deuterostome-protostome dichotomy. <i>Current Opinion in Genetics and Development</i> , 2000 , 10, 434-42	4.9	50
71	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	3.1	50
70	Serotonin-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	50
69	Tunicates. <i>Current Biology</i> , 2016 , 26, R146-52	6.3	48
68	Retinoic acid signaling targets Hox genes during the amphioxus gastrula stage: insights into early anterior-posterior patterning of the chordate body plan. <i>Developmental Biology</i> , 2010 , 338, 98-106	3.1	44
67	Nuclear beta-catenin promotes non-neural ectoderm and posterior cell fates in amphioxus embryos. <i>Developmental Dynamics</i> , 2005 , 233, 1430-43	2.9	44
66	Amphioxus AmphiDelta: evolution of Delta protein structure, segmentation, and neurogenesis. <i>Genesis</i> , 2007 , 45, 113-22	1.9	40
65	Expression of somite segmentation genes in amphioxus: a clock without a wavefront?. <i>Development Genes and Evolution</i> , 2008 , 218, 599-611	1.8	40
64	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 , 304, 304-23	1.8	40
63	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>Development Growth and Differentiation</i> , 1993 , 35, 153-160	3	40
62	Fine Structural Study of the Cortical Reaction and Formation of the Egg Coats in a Lancelet (= Amphioxus), <i>Branchiostoma floridae</i> (Phylum Chordata: Subphylum Cephalochordata = Acrania). <i>Biological Bulletin</i> , 1989 , 176, 111-122	1.5	40
61	Amphioxus and the evolution of head segmentation. <i>Integrative and Comparative Biology</i> , 2008 , 48, 630-46		39
60	AmphiFoxQ2, a novel winged helix/forkhead gene, exclusively marks the anterior end of the amphioxus embryo. <i>Development Genes and Evolution</i> , 2003 , 213, 102-5	1.8	39
59	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		39
58	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	1.5	37
57	Characterization of Amphioxus AmphiVent, an evolutionarily conserved marker for chordate ventral mesoderm. <i>Genesis</i> , 2001 , 29, 172-9	1.9	36
56	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		36
55	Characterization of an amphioxus wnt gene, AmphiWnt11, with possible roles in myogenesis and tail outgrowth. <i>Genesis</i> , 2000 , 27, 1-5	1.9	35

54	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	18.3	35
53	Scenarios for the making of vertebrates. <i>Nature</i> , 2015 , 520, 450-5	50.4	34
52	Differential mesodermal expression of two amphioxus MyoD family members (AmphiMRF1 and AmphiMRF2). <i>Gene Expression Patterns</i> , 2003 , 3, 199-202	1.5	34
51	Stage- and tissue-specific patterns of cell division in embryonic and larval tissues of amphioxus during normal development. <i>Evolution & Development</i> , 2006 , 8, 142-9	2.6	33
50	Evolution of neural crest and placodes: amphioxus as a model for the ancestral vertebrate?. <i>Journal of Anatomy</i> , 2001 , 199, 85-98	2.9	32
49	A revised fate map for amphioxus and the evolution of axial patterning in chordates. <i>Integrative and Comparative Biology</i> , 2007 , 47, 360-72	2.8	31
48	Evolution of new characters after whole genome duplications: insights from amphioxus. <i>Seminars in Cell and Developmental Biology</i> , 2013 , 24, 101-9	7.5	30
47	Characterization and developmental expression of AmphiNk2-2, an NK2 class homeobox gene from Amphioxus. (Phylum Chordata; Subphylum Cephalochordata). <i>Development Genes and Evolution</i> , 1998 , 208, 100-5	1.8	30
46	Characterization of two amphioxus Wnt genes (AmphiWnt4 and AmphiWnt7b) with early expression in the developing central nervous system. <i>Developmental Dynamics</i> , 2000 , 217, 205-15	2.9	30
45	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, 2905-16	6.6	30
44	The origin and evolution of chordate nervous systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015 , 370,	5.8	29
43	Genomics, evolution and development of amphioxus and tunicates: The Goldilocks principle. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2015 , 324, 342-52	1.8	29
42	Essential role of Dkk3 for head formation by inhibiting Wnt/βcatenin and Nodal/Vg1 signaling pathways in the basal chordate amphioxus. <i>Evolution & Development</i> , 2012 , 14, 338-50	2.6	29
41	Amphioxus whole-mount in situ hybridization. <i>Cold Spring Harbor Protocols</i> , 2009 , 2009, pdb.prot5286	1.2	29
40	NSF workshop report: discovering general principles of nervous system organization by comparing brain maps across species. <i>Journal of Comparative Neurology</i> , 2014 , 522, 1445-53	3.4	26
39	Differential gene expression and intracellular mRNA localization of amphioxus actin isoforms throughout development: Implications for conserved mechanisms of chordate development. <i>Development Genes and Evolution</i> , 1997 , 207, 203-215	1.8	26
38	Laboratory spawning and development of the Bahama lancelet, <i>Asymmetron lucayanum</i> (cephalochordata): fertilization through feeding larvae. <i>Biological Bulletin</i> , 2010 , 219, 132-41	1.5	25
37	The evolution of alternative splicing in the Pax family: the view from the Basal chordate amphioxus. <i>Journal of Molecular Evolution</i> , 2008 , 66, 605-20	3.1	25

36	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. <i>International Journal of Biological Sciences</i> , 2006 , 2, 110-6	11.2	24
35	Evolution of basal deuterostome nervous systems. <i>Journal of Experimental Biology</i> , 2015 , 218, 637-45	3	23
34	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. <i>Gene</i> , 2002 , 282, 143-50	3.8	23
33	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. <i>Developmental Dynamics</i> , 1997 , 210, 11-8	2.9	22
32	Roles of retinoic acid and <i>Tbx1/10</i> in pharyngeal segmentation: amphioxus and the ancestral chordate condition. <i>EvoDevo</i> , 2014 , 5, 36	3.2	21
31	Early development of cephalochordates (amphioxus). <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2012 , 1, 167-83	5.9	21
30	The basal chordate amphioxus as a simple model for elucidating developmental mechanisms in vertebrates. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2008 , 84, 175-87		21
29	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. <i>Gene Expression Patterns</i> , 2009 , 9, 329-34	1.5	19
28	Cephalochordates (amphioxus or lancelets): a model for understanding the evolution of chordate characters. <i>Cold Spring Harbor Protocols</i> , 2009 , 2009, pdb.emo130	1.2	19
27	Expression of the <i>AmphiTcf</i> gene in amphioxus: insights into the evolution of the TCF/LEF gene family during vertebrate evolution. <i>Developmental Dynamics</i> , 2006 , 235, 3396-403	2.9	18
26	The fine structure of the growth stage oocytes of a lancelet (= amphioxus), <i>Branchiostoma lanceolatum</i> . <i>Invertebrate Reproduction and Development</i> , 1991 , 19, 107-122	0.7	18
25	Conserved Noncoding Elements in the Most Distant Genera of Cephalochordates: The Goldilocks Principle. <i>Genome Biology and Evolution</i> , 2016 , 8, 2387-405	3.9	18
24	The amphioxus T-box gene, <i>AmphiTbx15/18/22</i> , illuminates the origins of chordate segmentation. <i>Evolution & Development</i> , 2006 , 8, 119-29	2.6	17
23	Cis-regulation of the amphioxus engrailed gene: insights into evolution of a muscle-specific enhancer. <i>Mechanisms of Development</i> , 2007 , 124, 532-42	1.7	15
22	The Florida amphioxus (Cephalochordata) hosts larvae of the tapeworm <i>Acanthobothrium brevis</i> : natural history, anatomy and taxonomic identification of the parasite. <i>Acta Zoologica</i> , 2009 , 90, 75-86	0.8	14
21	A proposal to sequence the amphioxus genome submitted to the Joint Genome Institute of the US Department of Energy. <i>The Journal of Experimental Zoology</i> , 2003 , 300, 5-22		14
20	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	2.8	12
19	Fine Structure of the Mesothelia and Extracellular Materials in the Coelomic Fluid of the Fin Boxes, Myocoels and Scleroocoels of a Lancelet, <i>Branchiostoma floridae</i> (Cephalochordata = Acrania). <i>Acta Zoologica</i> , 1990 , 71, 225-234	0.8	12

18	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	1.5	9
17	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, 555-71	1.8	9
16	Analyses of gene function in amphioxus embryos by microinjection of mRNAs and morpholino oligonucleotides. <i>Methods in Molecular Biology</i> , 2011 , 770, 423-38	1.4	9
15	"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	2.8	9
14	The Fine Structure of the Testis of a Lancelet (=Amphioxus), <i>Branchiostoma floridae</i> (Phylum Chordata: Subphylum Cephalochordata= Acrania). <i>Acta Zoologica</i> , 1989 , 70, 211-219	0.8	9
13	Tail regression induced by elevated retinoic acid signaling in amphioxus larvae occurs by tissue remodeling, not cell death. <i>Evolution & Development</i> , 2011 , 13, 427-35	2.6	8
12	A SINE in the genome of the cephalochordate amphioxus is an Alu element. <i>International Journal of Biological Sciences</i> , 2006 , 2, 61-5	11.2	7
11	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 1998 , 213, 130		6
10	The ups and downs of amphioxus biology: a history. <i>International Journal of Developmental Biology</i> , 2017 , 61, 575-583	1.9	5
9	Cephalochordata 2015 , 91-133		4
8	The evolution of genes encoding for green fluorescent proteins: insights from cephalochordates (amphioxus). <i>Scientific Reports</i> , 2016 , 6, 28350	4.9	4
7	Nodal and Hedgehog synergize in gill slit formation during development of the cephalochordate. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	4
6	Cephalochordates: A window into vertebrate origins. <i>Current Topics in Developmental Biology</i> , 2021 , 141, 119-147	5.3	4
5	COVID-19 microthrombosis: unusually large VWF multimers are a platform for activation of the alternative complement pathway under cytokine storm.. <i>International Journal of Hematology</i> , 2022 , 115, 457	2.3	4
4	Sequence and developmental expression of AmphiTob, an amphioxus homolog of vertebrate Tob in the PC3/BTG1/Tob family of tumor suppressor genes 1997 , 210, 11		2
3	Laboratory Culture and Mutagenesis of Amphioxus (<i>Branchiostoma floridae</i>). <i>Methods in Molecular Biology</i> , 2021 , 2219, 1-29	1.4	2
2	The invertebrate chordate amphioxus gives clues to vertebrate origins.. <i>Current Topics in Developmental Biology</i> , 2022 , 147, 563-594	5.3	1
1	Bio. <i>Evolution & Development</i> , 2010 , 12, 109-12	2.6	

