

Nicholas D Holland

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120
papers

4,452
citations

40
h-index

62
g-index

123
ext. papers

4,849
ext. citations

4.6
avg, IF

5.49
L-index

#	Paper	IF	Citations
120	Axial patterning in cephalochordates and the evolution of the organizer. <i>Nature</i> , 2007 , 445, 613-7	50.4	203
119	Early central nervous system evolution: an era of skin brains?. <i>Nature Reviews Neuroscience</i> , 2003 , 4, 617-25	27.5	193
118	Evolution of genetic networks underlying the emergence of thymopoiesis in vertebrates. <i>Cell</i> , 2009 , 138, 186-97	56.2	149
117	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
116	Origin and early evolution of the vertebrates: new insights from advances in molecular biology, anatomy, and palaeontology. <i>BioEssays</i> , 2001 , 23, 142-51	4.1	133
115	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
114	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
113	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
112	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
111	Chordate origins of the vertebrate central nervous system. <i>Current Opinion in Neurobiology</i> , 1999 , 9, 596-602	7.6	103
110	The Fine Structure of the Echinoderm Cuticle and the Subcuticular Bacteria of Echinoderms. <i>Acta Zoologica</i> , 1978 , 59, 169-185	0.8	93
109	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
108	Insights into spawning behavior and development of the European amphioxus (<i>Branchiostoma lanceolatum</i>). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007 , 308, 484-93	1.8	85
107	Embryos and Larvae of a Lancelet, <i>Branchiostoma floridae</i> , from Hatching through Metamorphosis: Growth in the Laboratory and External Morphology. <i>Acta Zoologica</i> , 1995 , 76, 105-120	0.8	84
106	An amphioxus winged helix/forkhead gene, AmphiFoxD: insights into vertebrate neural crest evolution. <i>Developmental Dynamics</i> , 2002 , 225, 289-97	2.9	79
105	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
104	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

103	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
102	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
101	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
100	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
99	AmphiNk2-tin, an amphioxus homeobox gene expressed in myocardial progenitors: insights into evolution of the vertebrate heart. <i>Developmental Biology</i> , 2003 , 255, 128-37	3.1	67
98	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
97	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
96	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
95	Expression of AmphiCoe, an amphioxus COE/EBF gene, in the developing central nervous system and epidermal sensory neurons. <i>Genesis</i> , 2004 , 38, 58-65	1.9	53
94	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
93	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
92	'Lophenteropneust' hypothesis refuted by collection and photos of new deep-sea hemichordates. <i>Nature</i> , 2005 , 434, 374-6	50.4	49
91	Epidermal receptor development and sensory pathways in vitally stained amphioxus (<i>Branchiostoma floridae</i>). <i>Acta Zoologica</i> , 2002 , 83, 309-319	0.8	45
90	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
89	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
88	The Lancelet. <i>American Scientist</i> , 1998 , 86, 552	2.7	44
87	Topographic changes in nascent and early mesoderm in amphioxus embryos studied by Dil labeling and by in situ hybridization for a Brachyury gene. <i>Development Genes and Evolution</i> , 1997 , 206, 532-535	1.8	43
86	Fine structure of the cirri and a possible mechanism for their motility in stalkless crinoids (<i>Echinodermata</i>). <i>Cell and Tissue Research</i> , 1981 , 214, 207-17	4.2	41

85	The origin and migration of the earliest-developing sensory neurons in the peripheral nervous system of amphioxus. <i>Evolution & Development</i> , 2009 , 11, 142-51	2.6	40
84	Amphioxus AmphiDelta: evolution of Delta protein structure, segmentation, and neurogenesis. <i>Genesis</i> , 2007 , 45, 113-22	1.9	40
83	Amphioxus molecular biology: insights into vertebrate evolution and developmental mechanisms. <i>Canadian Journal of Zoology</i> , 2005 , 83, 90-100	1.5	40
82	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
81	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
80	Amphioxus and the evolution of head segmentation. <i>Integrative and Comparative Biology</i> , 2008 , 48, 630-46		39
79	AmphiFoxE4, an amphioxus winged helix/forkhead gene encoding a protein closely related to vertebrate thyroid transcription factor-2: expression during pharyngeal development. <i>Evolution & Development</i> , 2002 , 4, 9-15	2.6	39
78	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
77	Diversification of acorn worms (Hemichordata, Enteropneusta) revealed in the deep sea. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 1646-54	4.4	37
76	Characterization of Amphioxus AmphiVent, an evolutionarily conserved marker for chordate ventral mesoderm. <i>Genesis</i> , 2001 , 29, 172-9	1.9	36
75	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
74	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
73	Scenarios for the making of vertebrates. <i>Nature</i> , 2015 , 520, 450-5	50.4	34
72	Differential mesodermal expression of two amphioxus MyoD family members (AmphiMRF1 and AmphiMRF2). <i>Gene Expression Patterns</i> , 2003 , 3, 199-202	1.5	34
71	AN AUTORADIOGRAPHIC INVESTIGATION OF TOOTH RENEWAL IN THE PURPLE SEA URCHIN (STRONGYLOCENTROTUS PURPURATUS). <i>The Journal of Experimental Zoology</i> , 1965 , 158, 275-81		34
70	AN AUTORADIOGRAPHIC INVESTIGATION OF COELOMOCYTE PRODUCTION IN THE PURPLE SEA URCHIN (STRONGYLOCENTROUS PURPURATUS). <i>Biological Bulletin</i> , 1965 , 128, 259-270	1.5	34
69	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
68	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

67	Enteropneust production of spiral fecal trails on the deep-sea floor observed with time-lapse photography. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005 , 52, 1228-1240	2.5	31
66	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
65	Haemal and coelomic circulatory systems in the arms and pinnules of <i>Florometra serratissima</i> (Echinodermata: Crinoidea). <i>Zoomorphologie</i> , 1979 , 94, 93-109		30
64	Evolution of the notochord. <i>EvoDevo</i> , 2015 , 6, 30	3.2	29
63	The Structure of a Sessile, Stalkless Crinoid (<i>Holopus rangii</i>). <i>Acta Zoologica</i> , 1990 , 71, 61-67	0.8	28
62	The fine structure of the fertilization membrane of the feather star <i>Comanthus japonica</i> (Echinodermata: Crinoidea). <i>Tissue and Cell</i> , 1973 , 5, 209-14	2.7	28
61	Reproduction of the Florida Lancelet (<i>Branchiostoma floridae</i>): Spawning Patterns and Fluctuations in Gonad Indexes and Nutritional Reserves. <i>Invertebrate Biology</i> , 1996 , 115, 349	1	27
60	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
59	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
58	The Fine Structure of the Stalk of the Pentacrinoid Larva of a Feather Star, <i>Comanthus japonica</i> (Echinodermata: Crinoidea). <i>Acta Zoologica</i> , 1984 , 65, 41-58	0.8	25
57	Electron Microscopic Study of Development in a Sea Cucumber, <i>Stichopus tremulus</i> (Holothuroidea), from Unfertilized Egg through Hatched Blastula. <i>Acta Zoologica</i> , 1981 , 62, 89-111	0.8	25
56	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
55	A comparative study of gut mucous cells in thirty-seven species of the class Echinoidea (Echinodermata). <i>Biological Bulletin</i> , 1970 , 138, 286-305	1.5	24
54	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
53	Observations on torquaratorid acorn worms (Hemichordata, Enteropneusta) from the North Atlantic with descriptions of a new genus and three new species. <i>Invertebrate Biology</i> , 2012 , 131, 244-257 ¹		21
52	AN AUTORADIOGRAPHIC AND HISTOCHEMICAL INVESTIGATION OF THE GUT MUCOPOLYSACCHARIDES OF THE PURPLE SEA URCHIN (<i>STRONGYLOCENTROTUS PURPURATUS</i>). <i>Biological Bulletin</i> , 1964 , 127, 280-293	1.5	20
51	The coelomic elements of sea urchins (<i>Strongylocentrotus</i>). <i>Protoplasma</i> , 1970 , 71, 419-442	3.4	19
50	Development of somites and their derivatives in amphioxus, and implications for the evolution of vertebrate somites. <i>EvoDevo</i> , 2015 , 6, 21	3.2	18

49	Pikaia gracilens Walcott: stem chordate, or already specialized in the Cambrian?. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2013 , 320, 247-71	1.8	18
48	A new deep-sea species of epibenthic acorn worm (Hemichordata, Enteropneusta). <i>Zoosystema</i> , 2009 , 31, 333-346	0.7	18
47	Expression of the AmphiTcf 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
46	The fine structure of the growth stage oocytes of a lancelet (= amphioxus), Branchiostoma lanceolatum. <i>Invertebrate Reproduction and Development</i> , 1991 , 19, 107-122	0.7	18
45	The amphioxus T-box gene, AmphiTbx15/18/22, illuminates the origins of chordate segmentation. <i>Evolution & Development</i> , 2006 , 8, 119-29	2.6	17
44	Morphology of a new deep-sea acorn worm (class Enteropneusta, phylum Hemichordata): a part-time demersal drifter with externalized ovaries. <i>Journal of Morphology</i> , 2012 , 273, 661-71	1.6	15
43	Walter Garstang: a retrospective. <i>Theory in Biosciences</i> , 2011 , 130, 247-58	1.3	14
42	The Florida amphioxus (Cephalochordata) hosts larvae of the tapeworm Acanthobothrium brevisse: natural history, anatomy and taxonomic identification of the parasite. <i>Acta Zoologica</i> , 2009 , 90, 75-86	0.8	14
41	Formation of the initial kidney and mouth opening in larval amphioxus studied with serial blockface scanning electron microscopy (SBSEM). <i>EvoDevo</i> , 2018 , 9, 16	3.2	13
40	Molecular identification of larvae of a tetraphyllidean tapeworm (Platyhelminthes: Eucestoda) in a razor clam as an alternative intermediate host in the life cycle of Acanthobothrium brevisse. <i>Journal of Parasitology</i> , 2009 , 95, 1215-7	0.9	13
39	Nervous systems and scenarios for the invertebrate-to-vertebrate transition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371, 20150047	5.8	12
38	The club-shaped gland of amphioxus: export of secretion to the pharynx in pre-metamorphic larvae and apoptosis during metamorphosis. <i>Acta Zoologica</i> , 2009 , 90, 372-379	0.8	12
37	Fine Structure of the Mesothelia and Extracellular Materials in the Coelomic Fluid of the Fin Boxes, Myocoels and Sclerocoels of a Lancelet, Branchiostoma floridae (Cephalochordata = Acrania). <i>Acta Zoologica</i> , 1990 , 71, 225-234	0.8	12
36	Morphologically Specialized Sperm from the Ovary of Isometra vivipara (Echinodermata □ Crinoidea). <i>Acta Zoologica</i> , 1976 , 57, 147-152	0.8	12
35	The Fine Structure of the Gastric Exocrine Cells of the Purple Sea Urchin, Strongylocentrotus purpuratus. <i>Transactions of the American Microscopical Society</i> , 1968 , 87, 201		10
34	Hybrids between the Florida amphioxus (Branchiostoma floridae) and the Bahamas lancelet (Asymmetron lucayanum): developmental morphology and chromosome counts. <i>Biological Bulletin</i> , 2015 , 228, 13-24	1.5	9
33	Hagfish embryos again: the end of a long drought. <i>BioEssays</i> , 2007 , 29, 833-6	4.1	9
32	The Fine Structure of the Testis of a Lancelet (=Amphioxus), Branchiostoma floridae (Phylum Chordata: Subphylum Cephalochordata= Acrania). <i>Acta Zoologica</i> , 1989 , 70, 211-219	0.8	9

31	The Role of Ligaments in Arm Extension in Feather Stars (Echinodermata: Crinoidea). <i>Acta Zoologica</i> , 1987 , 68, 79-82	0.8	9
30	Electron microscopic studies of the digestive tract and absorption from the gut lumen of a feather star, <i>oligometra serripinna</i> (Echinodermata). <i>Zoomorphology</i> , 1984 , 104, 252-259	1	9
29	An externally brooding acorn worm (Hemichordata, Enteropneusta, Torquaratoridae) from the Russian arctic. <i>Biological Bulletin</i> , 2013 , 225, 113-23	1.5	8
28	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
27	Epidermal mucus and the reproduction of a crinoid echinoderm. <i>Nature</i> , 1975 , 255, 223-4	50.4	7
26	Digestive System. <i>Developments in Aquaculture and Fisheries Science</i> , 2013 , 38, 119-133	1.1	6
25	Magnetic resonance imaging (MRI) has failed to distinguish between smaller gut regions and larger haemal sinuses in sea urchins (Echinodermata: Echinoidea). <i>BMC Biology</i> , 2009 , 7, 39; author reply 39	7.3	6
24	A new deep-sea species of harrimaniid enteropneust (Hemichordata). <i>Proceedings of the Biological Society of Washington</i> , 2012 , 125, 228-240	0.2	6
23	The Histochemistry and Fine Structure of the Nutritional Reserves in the Fin Rays of a Lancelet, <i>Branchiostoma lanceolatum</i> (Cephalochordata = Acrania). <i>Acta Zoologica</i> , 1991 , 72, 203-207	0.8	6
22	Fine structure of oocyte maturation in a crinoid echinoderm, <i>Oxycomanthus japonicus</i> : A time-lapse study by serial biopsy. <i>Journal of Morphology</i> , 1988 , 198, 205-217	1.6	6
21	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
20	Amphioxus tails: source and fate of larval fin rays and the metamorphic transition from an ectodermal to a predominantly mesodermal tail. <i>Acta Zoologica</i> , 2015 , 96, 117-125	0.8	5
19	The sensory peripheral nervous system in the tail of a cephalochordate studied by serial blockface scanning electron microscopy. <i>Journal of Comparative Neurology</i> , 2020 , 528, 2569-2582	3.4	5
18	The ups and downs of amphioxus biology: a history. <i>International Journal of Developmental Biology</i> , 2017 , 61, 575-583	1.9	5
17	Cholinesterase in larvae of the ascidian, <i>Ciona intestinalis</i> , developing from fragments cut from centrifuged eggs. <i>Development Genes and Evolution</i> , 1974 , 175, 91-102	1.8	5
16	Serial blockface SEM suggests that stem cells may participate in adult notochord growth in an invertebrate chordate, the Bahamas lancelet. <i>EvoDevo</i> , 2020 , 11, 22	3.2	5
15	The evolution of genes encoding for green fluorescent proteins: insights from cephalochordates (amphioxus). <i>Scientific Reports</i> , 2016 , 6, 28350	4.9	4
14	Rediscovery and augmented description of the HMS Challenger acorn worm (Hemichordata, Enteropneusta), <i>Glandiceps abyssicola</i> , in the equatorial Atlantic abyss. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2013 , 93, 2197-2205	1.1	4

13	The long and winding path to understanding kidney structure in amphioxus - a review. <i>International Journal of Developmental Biology</i> , 2017 , 61, 683-688	1.9	4
12	Cephalochordates: A window into vertebrate origins. <i>Current Topics in Developmental Biology</i> , 2021 , 141, 119-147	5.3	4
11	Ran GTPase, an eukaryotic gene novelty, is involved in amphioxus mitosis. <i>PLoS ONE</i> , 2018 , 13, e0196930	3.7	4
10	Siphons and siphonal grooves in the digestive systems of the Echinoidea (Echinodermata). <i>Zoomorphology</i> , 2008 , 127, 259-264	1	3
9	Chordates. <i>Current Biology</i> , 2005 , 15, R911-4	6.3	3
8	Conservation of BMP2/4 expression patterns within the clade Branchiostoma (amphioxus): Resolving interspecific discrepancies. <i>Gene Expression Patterns</i> , 2017 , 25-26, 71-75	1.5	2
7	ELECTRON MICROSCOPIC DEMONSTRATION OF A DITHIOTHREITOL-LABILE VITELLINE COAT SURROUNDING THE UNFERTILIZED EGG OF COMANTHUS JAPONICA (ECHINODERMATA: CRINOIDEA)*. <i>Development Growth and Differentiation</i> , 1976 , 18, 199-204	3	2
6	Digestive system in regular sea urchins. <i>Developments in Aquaculture and Fisheries Science</i> , 2020 , 43, 147-163	1.63	2
5	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
4	Hunting needles in a haystack: Migrating precursors of epidermal sensory neurons in amphioxus found with serial blockface scanning electron microscopy (SBSEM). <i>Acta Zoologica</i> , 2021 , 102, 165-170	0.8	1
3	Tail regeneration in a cephalochordate, the Bahamas lancelet, <i>Asymmetron lucayanum</i> . <i>Journal of Morphology</i> , 2021 , 282, 217-229	1.6	1
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	Vincenzo Colucci's 1886 memoir, <i>Intorno alla rigenerazione degli arti e della coda nei tritoni</i> , annotated and translated into English as: Concerning regeneration of the limbs and tail in salamanders 2021 , 88, 837-890		