

# Lennart Olsson

## List of Publications by Year in descending order

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79  
papers

1,757  
citations

304743

22  
h-index

330143

37  
g-index

85  
all docs

85  
docs citations

85  
times ranked

975  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Î²1 Integrin-mediated collagen gel contraction is stimulated by PDGF. <i>Experimental Cell Research</i> , 1990, 186, 264-272.  | 2.6  | 260       |
| 2  | Cranial neural-crest migration and chondrogenic fate in the oriental fire-bellied toad <i>Bombina orientalis</i> : Defining the ancestral pattern of head development in anuran amphibians. , 1996, 229, 105-120.  |      | 83        |
| 3  | Cranial Neural Crest Cells Contribute to Connective Tissue in Cranial Muscles in the Anuran Amphibian, <i>Bombina orientalis</i> . <i>Developmental Biology</i> , 2001, 237, 354-367.  | 2.0  | 80        |
| 4  | Role of cranial neural crest cells in visceral arch muscle positioning and morphogenesis in the Mexican axolotl, <i>Ambystoma mexicanum</i> . <i>Developmental Dynamics</i> , 2004, 231, 237-247.  | 1.8  | 63        |
| 5  | From the "Modern Synthesis" to cybernetics: Ivan Ivanovich Schmalhausen (1884-1963) and his research program for a synthesis of evolutionary and developmental biology. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2006, 306B, 89-106. | 1.3  | 62        |
| 6  | PORTRAITS OF SCIENCE: From the Modern Synthesis to Lysenkoism, and Back?. <i>Science</i> , 2002, 297, 55-56.   | 12.6 | 55        |
| 7  | The Road from Haeckel: The Jena Tradition in Evolutionary Morphology and the Origins of "Evo-Devo" Biology and Philosophy, 2003, 18, 285-307.  | 1.4  | 55        |
| 8  | Mechanistic Basis of Life-History Evolution in Anuran Amphibians: Direct Development. <i>American Zoologist</i> , 1997, 37, 160-171.   | 0.7  | 53        |
| 9  | The history of the homology concept and the "Phylogenetisches Symposium". <i>Theory in Biosciences</i> , 2005, 124, 243-253.   | 1.4  | 48        |
| 10 | Muscular derivatives of the cranialmost somites revealed by long-term fate mapping in the Mexican axolotl ( <i>Ambystoma mexicanum</i> ). <i>Evolution &amp; Development</i> , 2007, 9, 566-578.   | 2.0  | 48        |
| 11 | Limb development in a "nonmodel" vertebrate, the direct-developing frog <i>Eleutherodactylus coqui</i> . <i>The Journal of Experimental Zoology</i> , 2001, 291, 375-388.  | 1.4  | 44        |
| 12 | The history of the oldest self-sustaining laboratory animal: 150 years of axolotl research. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2015, 324, 393-404.   | 1.3  | 42        |
| 13 | Evolutionary developmental biology: its concepts and history with a focus on Russian and German contributions. <i>Die Naturwissenschaften</i> , 2010, 97, 951-969.   | 1.6  | 40        |
| 14 | Vertebrate head development: Segmentation, novelties, and homology. <i>Theory in Biosciences</i> , 2005, 124, 145-163.   | 1.4  | 39        |
| 15 | The "Biogenetic Law" in zoology: from Ernst Haeckel's formulation to current approaches. <i>Theory in Biosciences</i> , 2017, 136, 19-29.  | 1.4  | 34        |
| 16 | Editorial: a renaissance for evolutionary morphology. <i>Acta Zoologica</i> , 2006, 88, 1-1.   | 0.8  | 33        |
| 17 | Patterns of spatial and temporal visceral arch muscle development in the Mexican axolotl ( <i>Ambystoma</i> ) Tj ETQq1 1.0,784314,rgBT/Ole   | 1.2  | 32        |
| 18 | The integration of Darwinism and evolutionary morphology: Alexej Nikolajevich Sewertzoff (1866-1936) and the developmental basis of evolutionary change. <i>The Journal of Experimental Zoology</i> , 2004, 302B, 343-354.   | 1.4  | 31        |

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|----|---|-----|-----------|
| 19 | Cranial neural crest cell migration in the Australian lungfish, <i>Neoceratodus forsteri</i> . <i>Evolution &amp; Development</i> , 2000, 2, 179-185.   | 2.0 | 30        |
| 20 | Patterns of spatial and temporal cranial muscle development in the African clawed frog, <i>Xenopus laevis</i> (Anura: Pipidae). <i>Journal of Morphology</i> , 2007, 268, 791-804.  | 1.2 | 28        |
| 21 | Cranial neural crest emergence and migration in the Mexican axolotl ( <i>Ambystoma mexicanum</i> ). <i>Zoology</i> , 2002, 105, 195-202.  | 1.2 | 27        |
| 22 | Development of the skull and pectoral girdle in Siberian sturgeon, <i>Acipenser baerii</i> , and Russian sturgeon, <i>Acipenser gueldenstaedtii</i> (Acipenseriformes: Acipenseridae). <i>Journal of Morphology</i> , 2017, 278, 418-442. | 1.2 | 27        |
| 23 | Cranial neural crest-cell migration in the direct-developing frog, <i>Eleutherodactylus coqui</i> : molecular heterogeneity within and among migratory streams. <i>Zoology</i> , 2002, 105, 3-13.   | 1.2 | 24        |
| 24 | Resegmentation in the mexican axolotl, <i>Ambystoma mexicanum</i> . <i>Journal of Morphology</i> , 2014, 275, 141-152.  | 1.2 | 23        |
| 25 | Distribution of Keratan Sulphate and Chondroitin Sulphate in Wild Type and White Mutant Axolotl Embryos During Neural Crest Cell Migration. <i>Pigment Cell &amp; Melanoma Research</i> , 1996, 9, 5-17.                                  | 3.6 | 21        |
| 26 | Cephalic muscle development in the Australian lungfish, <i>Neoceratodus forsteri</i> . <i>Journal of Morphology</i> , 2018, 279, 494-516.   | 1.2 | 21        |
| 27 | Cranial muscles in amphibians: development, novelties and the role of cranial neural crest cells. <i>Journal of Anatomy</i> , 2013, 222, 134-146.   | 1.5 | 20        |
| 28 | Pigment pattern formation in larval ambystomatid salamanders: <i>Ambystoma tigrinum tigrinum</i> . <i>Journal of Morphology</i> , 1992, 211, 73-85.   | 1.2 | 18        |
| 29 | A role for FoxN3 in the development of cranial cartilages and muscles in <i>Xenopus laevis</i> (Amphibia): Tj ETQq1 1 0.784314 rgBT /Overl  | 1.5 | 18        |
| 30 | The Developmental Pattern of the Musculature Associated with the Mandibular and Hyoid Arches in the Longnose Gar, <i>Lepisosteus osseus</i> (Actinopterygii, Ginglymodi, Lepisosteiformes). <i>Copeia</i> , 2015, 103, 920-932.           | 1.3 | 18        |
| 31 | A somitic contribution to the pectoral girdle in the axolotl revealed by long-term fate mapping. <i>Evolution &amp; Development</i> , 2011, 13, 47-57.  | 2.0 | 17        |
| 32 | Heterochronic shifts during early cranial neural crest cell migration in two ranid frogs. <i>Acta Zoologica</i> , 2008, 89, 69-78.  | 0.8 | 15        |
| 33 | The fate of cranial neural crest cells in the Australian lungfish, <i>Neoceratodus forsteri</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2008, 310B, 345-354.                             | 1.3 | 15        |
| 34 | Morphology of the cranial skeleton and musculature in the obligate carnivorous tadpole of <i>Lepidobatrachus laevis</i> (Anura: Ceratophryidae). <i>Acta Zoologica</i> , 2013, 94, 101-112.   | 0.8 | 15        |
| 35 | Pigment pattern formation in the larval salamander <i>Ambystoma maculatum</i> . <i>Journal of Morphology</i> , 1993, 215, 151-163.  | 1.2 | 14        |
| 36 | Sequence and timing of early cranial skeletal development in <i>Xenopus laevis</i> . <i>Journal of Morphology</i> , 2018, 279, 62-74.   | 1.2 | 14        |

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|----|--|-----|-----------|
| 37 | Editorial: Carl Gegenbaur (1826–1903) and his influence on the development of evolutionary morphology. <i>Theory in Biosciences</i> , 2003, 122, 105-108.  | 1.4 | 13        |
| 38 | Preface: From evolutionary morphology to the modern synthesis and ‘evo-devo’. Historical and contemporary perspectives. <i>Theory in Biosciences</i> , 2006, 124, 259-263.   | 1.4 | 13        |
| 39 | Symposium on the evolution and development of the vertebrate head. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2008, 310B, 287-293.   | 1.3 | 13        |
| 40 | Limb chondrogenesis in <i>Graptemys nigrinoda</i> (Emydidae), with comments on the primary axis and the digital arch in turtles. <i>Amphibia - Reptilia</i> , 2008, 29, 85-92.   | 0.5 | 13        |
| 41 | Early embryogenesis in discoglossoid frogs: a study of heterochrony at different taxonomic levels. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2009, 47, 248-257.   | 1.4 | 13        |
| 42 | The development of the cucullaris muscle and the branchial musculature in the Longnose Gar, ( <i>Lepisosteus osseus</i> , Lepisosteiformes, Actinopterygii) and its implications for the evolution and development of the head/trunk interface in vertebrates. <i>Evolution &amp; Development</i> , 2017, 19, 263-276. | 2.0 | 13        |
| 43 | The history of comparative anatomy in Jena – an overview. <i>Theory in Biosciences</i> , 2003, 122, 109-126.   | 1.4 | 12        |
| 44 | Preface. Between Ernst Haeckel and the homeobox: the role of developmental biology in explaining evolution. <i>Theory in Biosciences</i> , 2009, 128, 1-5.   | 1.4 | 12        |
| 45 | Alexei Sewertzoff and Adolf Naef: revising Haeckel’s biogenetic law. <i>History and Philosophy of the Life Sciences</i> , 2015, 36, 357-370.   | 1.1 | 12        |
| 46 | 150 Jahre ‘Biogenetisches Grundgesetz’. <i>Biologie in Unserer Zeit</i> , 2016, 46, 190-194.   | 0.2 | 12        |
| 47 | The biogenetic law and the Gastraea theory: From Ernst Haeckel’s discoveries to contemporary views. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, , .   | 1.3 | 12        |
| 48 | Introduction to the Symposium: Developmental and Evolutionary Perspectives on Major Transformations in Body Organization. <i>American Zoologist</i> , 1999, 39, 612-616.   | 0.7 | 11        |
| 49 | Effects of Extracellular Matrix Molecules on Subepidermal Neural Crest Cell Migration in Wild Type and White Mutant (dd) Axolotl Embryos. <i>Pigment Cell &amp; Melanoma Research</i> , 1996, 9, 18-27.  | 3.6 | 10        |
| 50 | Cell fate and timing in the evolution of neural crest and mesoderm development in the head region of amphibians and lungfishes. <i>Acta Zoologica</i> , 2009, 90, 264-272.   | 0.8 | 10        |
| 51 | Analyzing developmental sequences with Parsimov – A case study of cranial muscle development in anuran larvae. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 586-606.  | 1.3 | 10        |
| 52 | Bapx1 upregulation is associated with ectopic mandibular cartilage development in amphibians. <i>Zoological Letters</i> , 2018, 4, 16.   | 1.3 | 10        |
| 53 | Three-dimensional reconstruction of the cranial and anterior spinal nerves in early tadpoles of <i>Xenopus laevis</i> (Pipidae, Anura). <i>Journal of Comparative Neurology</i> , 2018, 526, 836-857.  | 1.6 | 9         |
| 54 | Pigment pattern formation in larval ambystomatid salamanders: <i>Ambystoma talpoideum</i> , <i>Ambystoma barbouri</i> , and <i>Ambystoma annulatum</i> . <i>Journal of Morphology</i> , 1994, 220, 123-138.  | 1.2 | 8         |

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|----|--|------|-----------|
| 55 | The Trabecula cranii: development and homology of an enigmatic vertebrate head structure. <i>Animal Biology</i> , 2006, 56, 503-518.   | 1.0  | 8         |
| 56 | Cell migration, pattern formation and cell fate during head development in lungfishes and amphibians. <i>Theory in Biosciences</i> , 2003, 122, 252-265.   | 1.4  | 7         |
| 57 | Freedom of the mind got Nature banned by the Nazis. <i>Nature</i> , 2006, 443, 271-271.  | 27.8 | 7         |
| 58 | Vertebrate head development: Segmentation, novelties, and homology. <i>Theory in Biosciences</i> , 2005, 124, 145-163.   | 1.4  | 6         |
| 59 | Molecular phylogenetic and scanning electron microscopical analyses places the Choanephoraceae and the Gilbertellaceae in a monophyletic group within the Mucorales (Zygomycetes, Fungi). <i>Acta Biologica Hungarica</i> , 2008, 59, 365-383.                   | 0.7  | 6         |
| 60 | The history of the homology concept and the "Phylogenetisches Symposium". <i>Theory in Biosciences</i> , 2005, 124, 243-253.   | 1.4  | 5         |
| 61 | Introduction to the autobiography of Julius Schaxel. <i>Theory in Biosciences</i> , 2007, 126, 165-175.  | 1.4  | 5         |
| 62 | Creationists attack secular education in Russia. <i>Nature</i> , 2006, 444, 265-265.   | 27.8 | 4         |
| 63 | A clash of traditions: the history of comparative and experimental embryology in Sweden as exemplified by the research of Gösta Jägersten and Sven Hårstadius. <i>Theory in Biosciences</i> , 2007, 126, 117-129.  | 1.4  | 4         |
| 64 | Prosencephalic neural folds give rise to neural crest cells in the Australian lungfish, <i>Neoceratodus forsteri</i> . <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2009, 312B, 83-94.                                 | 1.3  | 4         |
| 65 | The prominent absence of Alfred Russel Wallace at the Darwin anniversaries in Germany in 1909, 1959 and 2009. <i>Theory in Biosciences</i> , 2013, 132, 251-257.   | 1.4  | 4         |
| 66 | Sequence of chondrocranial development in the oriental fire bellied toad <i>Bombina orientalis</i> . <i>Journal of Morphology</i> , 2020, 281, 688-701.  | 1.2  | 4         |
| 67 | Acrofacial dysostosis (AFD) with preaxial limb hypoplasia (Nager AFD) and club foot diagnosed in a fetus from 1812 in the anatomical collections at the University of Halle, Germany. <i>American Journal of Medical Genetics, Part A</i> , 2005, 137A, 263-268. | 1.2  | 3         |
| 68 | Nuchal cystic hygroma in five fetuses from 1819 to 1826 in the Meckel-anatomical collections at the University of Halle, Germany. <i>American Journal of Medical Genetics, Part A</i> , 2007, 143A, 119-128.   | 1.2  | 3         |
| 69 | FoxN3 is necessary for the development of the interatrial septum, the ventricular trabeculae and the muscles at the head/trunk interface in the African clawed frog, <i>Xenopus laevis</i> (Lissamphibia: Anura). <i>Tj ETQq1 1 0.784314 rgBT /Over</i>          |      |           |
| 70 | Das Wandern ist der Zellen Lust. , 1994, , 161-182.  |      | 3         |
| 71 | Ernst Haeckel's embryology in biology textbooks in the German Democratic Republic, 1951-1988. <i>Theory in Biosciences</i> , 2019, 138, 31-48.   | 1.4  | 2         |
| 72 | Evolution's Entwicklungsbiologie (Evo-Devo). , 2011, , 151-179.  |      | 2         |

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|----|--|------|-----------|
| 73 | Haeckel's literary hopes dashed by materialism?. Nature, 2003, 424, 875-875.   | 27.8 | 1         |
| 74 | The Haeckel reception in Sweden. Theory in Biosciences, 2019, 138, 119-125.  | 1.4  | 1         |
| 75 | Documenting Lysenkoism. Science, 2002, 297, 1646-1647.   | 12.6 | 0         |
| 76 | Cell Migration, Cell Fate and Pattern Formation During Head Development in Lungfishes and Amphibians. , 2004, , 335-346.   |      | 0         |
| 77 | Evolutionary Developmental Biology: New challenges to the homology concept? " The 46th Phylogenetisches Symposium held in Jena. Theory in Biosciences, 2005, , . | 1.4  | 0         |
| 78 | Zur Visualisierung von Evo-Devo vor 100 Jahren. Biologie in Unserer Zeit, 2012, 42, 87-88.   | 0.2  | 0         |
| 79 | Preface: Acta Zoologica centennial. Acta Zoologica, 2020, 101, 1-4.  | 0.8  | 0         |