

Gary C Schoenwolf

List of Publications by Year in descending order

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103
papers

5,983
citations

71102

41
h-index

74163

75
g-index

110
all docs

110
docs citations

110
times ranked

2758
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Improved method for chick whole-embryo culture using a filter paper carrier. <i>Developmental Dynamics</i> , 2001, 220, 284-289. | 1.8 | 446 |
| 2 | Towards a cellular and molecular understanding of neurulation. <i>Developmental Dynamics</i> , 2001, 221, 117-145. | 1.8 | 391 |
| 3 | Primitive-Streak Origin of the Cardiovascular System in Avian Embryos. <i>Developmental Biology</i> , 1993, 159, 706-719. | 2.0 | 343 |
| 4 | Identification of Synergistic Signals Initiating Inner Ear Development. <i>Science</i> , 2000, 290, 1965-1967. | 12.6 | 238 |
| 5 | Mesoderm movement and fate during avian gastrulation and neurulation. <i>Developmental Dynamics</i> , 1992, 193, 235-248. | 1.8 | 207 |
| 6 | Histological and ultrastructural studies of secondary neurulation in mouse embryos. <i>American Journal of Anatomy</i> , 1984, 169, 361-376. | 1.0 | 205 |
| 7 | Notochordal induction of cell wedging in the chick neural plate and its role in neural tube formation. <i>The Journal of Experimental Zoology</i> , 1989, 250, 49-62. | 1.4 | 205 |
| 8 | Analysis of Spatial and Temporal Gene Expression Patterns in Blastula and Gastrula Stage Chick Embryos. <i>Developmental Biology</i> , 2002, 245, 187-199. | 2.0 | 178 |
| 9 | Quantitative analyses of changes in cell shapes during bending of the avian neural plate. <i>Developmental Biology</i> , 1984, 105, 257-272. | 2.0 | 150 |
| 10 | Ultrastructure of secondary neurulation in the chick embryo. <i>American Journal of Anatomy</i> , 1980, 158, 43-63. | 1.0 | 142 |
| 11 | Locations of the ectodermal and nonectodermal subdivisions of the epiblast at stages 3 and 4 of avian gastrulation and neurulation. <i>The Journal of Experimental Zoology</i> , 1993, 267, 431-446. | 1.4 | 138 |
| 12 | Ubiquitous GFP expression in transgenic chickens using a lentiviral vector. <i>Development (Cambridge)</i> , 2005, 132, 935-940. | 2.5 | 119 |
| 13 | Cell cycle and neuroepithelial cell shape during bending of the chick neural plate. <i>The Anatomical Record</i> , 1987, 218, 196-206. | 1.8 | 115 |
| 14 | Role of nonrandomly oriented cell division in shaping and bending of the neural plate. <i>Journal of Comparative Neurology</i> , 1997, 381, 473-488. | 1.6 | 100 |
| 15 | Fate mapping the avian epiblast with focal injections of a fluorescent-histochemical marker: Ectodermal derivatives. <i>The Journal of Experimental Zoology</i> , 1990, 255, 323-339. | 1.4 | 97 |
| 16 | Expansion of surface epithelium provides the major extrinsic force for bending of the neural plate. <i>The Journal of Experimental Zoology</i> , 1992, 261, 340-348. | 1.4 | 97 |
| 17 | Shaping and bending of the avian neuroepithelium: Morphometric analyses. <i>Developmental Biology</i> , 1985, 109, 127-139. | 2.0 | 92 |
| 18 | Formation of ectopic neurepithelium in chick blastoderms: Age-related capacities for induction and self-differentiation following transplantation of quail Hensen's nodes. <i>The Anatomical Record</i> , 1990, 228, 437-448. | 1.8 | 92 |

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|----|--|-----|-----------|
| 19 | A reexamination of the role of microfilaments in neurulation in the chick embryo. <i>The Anatomical Record</i> , 1988, 220, 87-102. | 1.8 | 91 |
| 20 | Islet-1 marks the early heart rudiments and is asymmetrically expressed during early rotation of the foregut in the chick embryo. <i>The Anatomical Record</i> , 2000, 260, 204-207. | 1.8 | 87 |
| 21 | Cooperative model of epithelial shaping and bending during avian neurulation: Autonomous movements of the neural plate, autonomous movements of the epidermis, and interactions in the neural plate/epidermis transition zone. <i>Developmental Dynamics</i> , 1995, 204, 323-337. | 1.8 | 83 |
| 22 | Positional control of mesoderm movement and fate during avian gastrulation and neurulation. <i>Developmental Dynamics</i> , 1992, 193, 249-256. | 1.8 | 82 |
| 23 | Microsurgical analyses of avian neurulation: Separation of medial and lateral tissues. <i>Journal of Comparative Neurology</i> , 1988, 276, 498-507. | 1.6 | 81 |
| 24 | Regulative ability of the prospective cardiogenic and vasculogenic areas of the primitive streak during avian gastrulation. <i>Developmental Dynamics</i> , 1993, 197, 57-68. | 1.8 | 74 |
| 25 | Observations on closure of the neuropores in the chick embryo. <i>American Journal of Anatomy</i> , 1979, 155, 445-465. | 1.0 | 73 |
| 26 | Prospective fate map of the mouse primitive streak at 7.5 days of gestation. <i>Developmental Dynamics</i> , 1994, 201, 279-289. | 1.8 | 71 |
| 27 | Expression of mouse fibroblast growth factor and fibroblast growth factor receptor genes during early inner ear development. <i>Developmental Dynamics</i> , 2003, 228, 267-272. | 1.8 | 70 |
| 28 | Fate mapping the avian neural plate with quail/chick chimeras: Origin of prospective median wedge cells. <i>The Journal of Experimental Zoology</i> , 1989, 249, 271-278. | 1.4 | 67 |
| 29 | Comparison of the expression patterns of several fibroblast growth factors during chick gastrulation and neurulation. <i>Anatomy and Embryology</i> , 2002, 205, 365-370. | 1.5 | 65 |
| 30 | Epiblast and primitive-streak origins of the endoderm in the gastrulating chick embryo. <i>Development (Cambridge)</i> , 2003, 130, 3491-3501. | 2.5 | 63 |
| 31 | Cell populations and morphogenetic movements underlying formation of the avian primitive streak and organizer. <i>Genesis</i> , 2001, 29, 188-195. | 1.6 | 58 |
| 32 | Quantitative analyses of neuroepithelial cell shapes during bending of the mouse neural plate. <i>Journal of Comparative Neurology</i> , 1994, 342, 144-151. | 1.6 | 55 |
| 33 | Evidence that translation of smooth muscle alpha-actin mRNA is delayed in the chick promyocardium until fusion of the bilateral heart-forming regions. <i>Developmental Dynamics</i> , 2000, 218, 316-330. | 1.8 | 53 |
| 34 | The use of early chick embryos in experimental embryology and teratology: Improvements in standard procedures. <i>Teratology</i> , 1983, 27, 65-72. | 1.6 | 52 |
| 35 | Localization of Cells of the Prospective Neural Plate, Heart and Somites within the Primitive Streak and Epiblast of Avian Embryos at Intermediate Primitive-Streak Stages. <i>Cells Tissues Organs</i> , 2001, 169, 334-346. | 2.3 | 52 |
| 36 | A combined series of Fgf9 and Fgf18 mutant alleles identifies unique and redundant roles in skeletal development. <i>Developmental Biology</i> , 2016, 411, 72-84. | 2.0 | 52 |

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|----|--|-----|-----------|
| 37 | Further evidence of extrinsic forces in bending of the neural plate. <i>Journal of Comparative Neurology</i> , 1991, 307, 225-236. | 1.6 | 51 |
| 38 | Descriptive studies of occlusion and reopening of the spinal canal of the early chick embryo. <i>The Anatomical Record</i> , 1984, 209, 251-263. | 1.8 | 48 |
| 39 | Cellular mechanisms of neural fold formation and morphogenesis in the chick embryo. <i>The Anatomical Record</i> , 2001, 262, 153-168. | 1.8 | 47 |
| 40 | Classification scheme for genes expressed during formation and progression of the avian primitive streak. <i>The Anatomical Record</i> , 2001, 262, 221-226. | 1.8 | 43 |
| 41 | Histological and ultrastructural studies on the origin of caudal neural crest cells in mouse embryos. <i>Journal of Comparative Neurology</i> , 1984, 222, 496-505. | 1.6 | 42 |
| 42 | Shaping of the chick neuroepithelium during primary and secondary neurulation: Role of cell elongation. <i>The Anatomical Record</i> , 1987, 218, 182-195. | 1.8 | 42 |
| 43 | Cell behaviors underlying notochord formation and extension in avian embryos: Quantitative and immunocytochemical studies. <i>The Anatomical Record</i> , 1993, 237, 58-70. | 1.8 | 42 |
| 44 | State of Commitment of Prospective Neural Plate and Prospective Mesoderm in Late Gastrula/Early Neurula Stages of Avian Embryos. <i>Developmental Biology</i> , 1997, 181, 102-115. | 2.0 | 41 |
| 45 | Changes in dorsoventral but not rostrocaudal regionalization of the chick neural tube in the absence of cranial notochord, as revealed by expression of <i>Engrailed-2</i> . <i>Developmental Dynamics</i> , 1992, 193, 389-396. | 1.8 | 40 |
| 46 | Epidermal ectoderm is required for full elevation and for convergence during bending of the avian neural plate. , 1997, 210, 397-406. | | 40 |
| 47 | The heart tube forms and elongates through dynamic cell rearrangement coordinated with foregut extension. <i>Development (Cambridge)</i> , 2018, 145, . | 2.5 | 39 |
| 48 | Survey of fibroblast growth factor expression during chick organogenesis. <i>The Anatomical Record</i> , 2002, 268, 1-6. | 1.8 | 36 |
| 49 | Neural tube occlusion precedes rapid brain enlargement. <i>The Journal of Experimental Zoology</i> , 1984, 230, 405-407. | 1.4 | 35 |
| 50 | Timing and positioning of occlusion of the spinal neurocele in the chick embryo. <i>Journal of Comparative Neurology</i> , 1985, 235, 479-487. | 1.6 | 34 |
| 51 | New insights into critical events of avian gastrulation. <i>The Anatomical Record</i> , 2001, 262, 238-252. | 1.8 | 34 |
| 52 | The ultrastructure of oral (buccopharyngeal) membrane formation and rupture in the chick embryo. <i>The Anatomical Record</i> , 1980, 197, 441-470. | 1.8 | 33 |
| 53 | Neural plate- and neural tube-forming potential of isolated epiblast areas in avian embryos. <i>Anatomy and Embryology</i> , 1989, 179, 541-549. | 1.5 | 33 |
| 54 | Quantification of the initial phases of rapid brain enlargement in the chick embryo. <i>American Journal of Anatomy</i> , 1986, 175, 403-411. | 1.0 | 31 |

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|----|--|------|-----------|
| 55 | Morphological and mapping studies of the paranodal and postnodal levels of the neural plate during chick neurulation. <i>The Anatomical Record</i> , 1992, 233, 281-290. | 1.8 | 31 |
| 56 | Mesodermal patterning during avian gastrulation and neurulation: Experimental induction of notochord from non-notochordal precursor cells. <i>Genesis</i> , 1995, 17, 38-54. | 2.1 | 31 |
| 57 | Evidence that secondary neurulation occurs autonomously in the chick embryo. <i>The Journal of Experimental Zoology</i> , 1982, 219, 233-240. | 1.4 | 30 |
| 58 | Optimized cationic lipid-based gene delivery reagents for use in developing vertebrate embryos. <i>Developmental Dynamics</i> , 2006, 235, 2210-2219. | 1.8 | 30 |
| 59 | A three-dimensional atlas of pituitary gland development in the zebrafish. <i>Journal of Comparative Neurology</i> , 2005, 487, 428-440. | 1.6 | 29 |
| 60 | Identification of differentially expressed genes in early inner ear development. <i>Gene Expression Patterns</i> , 2010, 10, 31-43. | 0.8 | 29 |
| 61 | Cell movements driving neurulation in avian embryos. <i>Development (Cambridge)</i> , 1991, 113, 157-168. | 2.5 | 28 |
| 62 | Anterior identity is established in chick epiblast by hypoblast and anterior definitive endoderm. <i>Development (Cambridge)</i> , 2003, 130, 5091-5101. | 2.5 | 27 |
| 63 | BMP regulates regional gene expression in the dorsal otocyst through canonical and non-canonical intracellular pathways. <i>Development (Cambridge)</i> , 2016, 143, 2228-37. | 2.5 | 27 |
| 64 | Timing and positioning of reopening of the occluded spinal neurocele in the chick embryo. <i>Journal of Comparative Neurology</i> , 1986, 246, 459-466. | 1.6 | 25 |
| 65 | Cutting, pasting and painting: experimental embryology and neural development. <i>Nature Reviews Neuroscience</i> , 2001, 2, 763-771. | 10.2 | 25 |
| 66 | Characterization of intercellular junctions in the caudal portion of the developing neural tube of the chick embryo. <i>American Journal of Anatomy</i> , 1980, 158, 29-41. | 1.0 | 24 |
| 67 | Animal Model: Causes of windowing-induced dysmorphogenesis (neural tube defects and early amnion) Tj ETQq1 1,0,784314,rgBT /O 2,4 235 | 2.4 | 23 |
| 68 | Improving the efficacy of fluorescent labeling for histological tracking of cells in early mammalian and avian embryos. , 1996, 244, 112-117. | | 23 |
| 69 | BMP/SMAD signaling regulates the cell behaviors that drive the initial dorsal-specific regional morphogenesis of the otocyst. <i>Developmental Biology</i> , 2010, 347, 369-381. | 2.0 | 20 |
| 70 | Hearing crosstalk: the molecular conversation orchestrating inner ear dorsoventral patterning. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2018, 7, e302. | 5.9 | 20 |
| 71 | Vertical induction of engrailed-2 and other region-specific markers in the early chick embryo. <i>Developmental Dynamics</i> , 1997, 209, 45-58. | 1.8 | 18 |
| 72 | Dynamic Labeling Techniques for Fate Mapping, Testing Cell Commitment, and Following Living Cells in Avian Embryos. , 2000, 135, 305-321. | | 17 |

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|----|---|-----|-----------|
| 73 | Culture of Avian Embryos. , 2000, 135, 31-38. | | 16 |
| 74 | Wrinkle-Free Plastic Sections for Light Microscopy. Biotechnic & Histochemistry, 1983, 58, 238-240. | 0.4 | 15 |
| 75 | The Chick Embryo as a Model System for Analyzing Mechanisms of Development. , 2000, 135, 25-29. | | 15 |
| 76 | A novel sectioning technique for use in descriptive embryology: Bridging the gap between paraffin and plastic serial sections. The Anatomical Record, 1983, 206, 221-225. | 1.8 | 14 |
| 77 | Animal model: Dymorphogenesis and death in a chicken embryo model. American Journal of Medical Genetics Part A, 1987, 27, 543-552. | 2.4 | 14 |
| 78 | Fgf3 and Fgf16 expression patterns define spatial and temporal domains in the developing chick inner ear. Brain Structure and Function, 2017, 222, 131-149. | 2.3 | 14 |
| 79 | Programmed cell death and the morphogenesis of the hindbrain roof plate in the chick embryo. Anatomy and Embryology, 1999, 200, 509-519. | 1.5 | 13 |
| 80 | Rapid triple-labeling method combining in situ hybridization and double immunocytochemistry. Developmental Dynamics, 2004, 230, 309-315. | 1.8 | 12 |
| 81 | Distinct functions for Netrin-1 in chicken and murine semicircular canal morphogenesis. Development (Cambridge), 2017, 144, 3349-3360. | 2.5 | 11 |
| 82 | Molecular Genetic Control of Axis Patterning during Early Embryogenesis of Vertebrates. Annals of the New York Academy of Sciences, 2000, 919, 246-260. | 3.8 | 10 |
| 83 | SHH ventralizes the otocyst by maintaining basal PKA activity and regulating GLI3 signaling. Developmental Biology, 2016, 420, 100-109. | 2.0 | 10 |
| 84 | Dorsoventral patterning of the avian mesencephalon/metencephalon: Role of the notochord and floor plate in suppressing Engrailed-2. Journal of Neurobiology, 1995, 26, 62-74. | 3.6 | 9 |
| 85 | Assessing the contributions of gene products to the form-shaping events of neurulation: A transgenic approach in chick. Genesis, 2003, 37, 64-75. | 1.6 | 9 |
| 86 | Detection of isoform-specific fibroblast growth factor receptors by whole-mount in situ hybridization in early chick embryos. Developmental Dynamics, 2011, 240, 1537-1547. | 1.8 | 9 |
| 87 | Formation and Patterning of the Avian Neuraxis: One Dozen Hypotheses. Novartis Foundation Symposium, 1994, 181, 25-50. | 1.1 | 9 |
| 88 | Early expression of Osteopontin in the chick is restricted to rhombomeres 5 and 6 and to a subpopulation of neural crest cells that arise from these segments. , 1998, 250, 199-209. | | 8 |
| 89 | Contributions of the chick embryo and experimental embryology to understanding the cellular mechanisms of neurulation. International Journal of Developmental Biology, 2018, 62, 49-55. | 0.6 | 8 |
| 90 | Changes in the surface morphologies of the cells in the bursa cloacalis (bursa of Fabricius) and thymus during ontogeny of the chick embryo. The Anatomical Record, 1981, 201, 303-316. | 1.8 | 7 |

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|-----|--|-----|-----------|
| 91 | Getting published well requires fulfilling editors' and reviewers' needs and desires. <i>Development Growth and Differentiation</i> , 2013, 55, 735-743. | 1.5 | 6 |
| 92 | Cell interactions underlying notochord induction and formation in the chick embryo. <i>Developmental Dynamics</i> , 2001, 222, 165-177. | 1.8 | 4 |
| 93 | Improved method for chick whole-embryo culture using a filter paper carrier. <i>Developmental Dynamics</i> , 2001, 220, 284-289. | 1.8 | 4 |
| 94 | Role of nonrandomly oriented cell division in shaping and bending of the neural plate. <i>Journal of Comparative Neurology</i> , 1997, 381, 473-488. | 1.6 | 3 |
| 95 | Improved method for chick whole-embryo culture using a filter paper carrier. , 2001, 220, 284. | | 3 |
| 96 | Dorsoventral differences in cAMP levels and correlated changes in the subcellular distribution of the PKA catalytic domain, provide further evidence that PKA signaling coordinates dorsoventral patterning of the otocyst. <i>Development Growth and Differentiation</i> , 2018, 60, 431-441. | 1.5 | 2 |
| 97 | Monoclonal antibodies identifying subsets of ectodermal, mesodermal, and endodermal cells in gastrulating and neurulating avian embryos. <i>The Anatomical Record</i> , 1993, 235, 591-603. | 1.8 | 1 |
| 98 | In memory of John F. Fallon. <i>Developmental Dynamics</i> , 2020, 249, 430-440. | 1.8 | 0 |
| 99 | Integration of Embryology and Molecular Biology. <i>FASEB Journal</i> , 2008, 22, 89.4. | 0.5 | 0 |
| 100 | Identification of differentially expressed genes in early inner ear development. <i>FASEB Journal</i> , 2009, 23, 470.2. | 0.5 | 0 |
| 101 | Choosing Your Journal Wisely. <i>FASEB Journal</i> , 2010, 24, 8.2. | 0.5 | 0 |
| 102 | Forming and Patterning the Rudiments of the Inner Ear. <i>FASEB Journal</i> , 2010, 24, 57.1. | 0.5 | 0 |
| 103 | PDGF signaling in the second heart field: combined evidence from human and mouse studies. <i>FASEB Journal</i> , 2011, 25, 305.4. | 0.5 | 0 |