

Olivier Pourquie

List of Publications by Year in descending order

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Version: 2024-02-01

150
papers

14,335
citations

20797

60
h-index

22147

113
g-index

188
all docs

188
docs citations

188
times ranked

9941
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinks and Bioprinting Strategies for Skeletal Muscle Tissue Engineering. <i>Advanced Materials</i> , 2022, 34, e2105883.	11.1	53
2	Paraxial mesoderm organoids model development of human somites. <i>ELife</i> , 2022, 11, .	2.8	27
3	Rectified random cell motility as a mechanism for embryo elongation. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	14
4	A brief history of the segmentation clock. <i>Developmental Biology</i> , 2022, 485, 24-36.	0.9	14
5	In vitro systems: A new window to the segmentation clock. <i>Development Growth and Differentiation</i> , 2021, 63, 140-153.	0.6	15
6	Human muscle production in vitro from pluripotent stem cells: Basic and clinical applications. <i>Seminars in Cell and Developmental Biology</i> , 2021, 119, 39-48.	2.3	9
7	Prednisolone rescues Duchenne muscular dystrophy phenotypes in human pluripotent stem cell-derived skeletal muscle in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	32
8	Dynamics of primitive streak regression controls the fate of neuromesodermal progenitors in the chicken embryo. <i>ELife</i> , 2021, 10, .	2.8	31
9	Metabolic decisions in development and disease—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 55-73.	1.8	6
10	Optogenetic modeling of human neuromuscular circuits in Duchenne muscular dystrophy with CRISPR and pharmacological corrections. <i>Science Advances</i> , 2021, 7, eabi8787.	4.7	14
11	Patterning with clocks and genetic cascades: Segmentation and regionalization of vertebrate versus insect body plans. <i>PLoS Genetics</i> , 2021, 17, e1009812.	1.5	27
12	In vitro characterization of the human segmentation clock. <i>Nature</i> , 2020, 580, 113-118.	13.7	152
13	<i>In Situ</i> Printing of Adhesive Hydrogel Scaffolds for the Treatment of Skeletal Muscle Injuries. <i>ACS Applied Bio Materials</i> , 2020, 3, 1568-1579.	2.3	86
14	Exploring the Influence of Cell Metabolism on Cell Fate through Protein Post-translational Modifications. <i>Developmental Cell</i> , 2020, 54, 282-292.	3.1	42
15	Mechanical Coupling Coordinates the Co-elongation of Axial and Paraxial Tissues in Avian Embryos. <i>Developmental Cell</i> , 2020, 55, 354-366.e5.	3.1	65
16	Differentiation of the human PAX7-positive myogenic precursors/satellite cell lineage <i>in vitro</i> . <i>Development (Cambridge)</i> , 2020, 147, .	1.2	37
17	Intracellular pH controls WNT downstream of glycolysis in amniote embryos. <i>Nature</i> , 2020, 584, 98-101.	13.7	95
18	Bioelectrical domain walls in homogeneous tissues. <i>Nature Physics</i> , 2020, 16, 357-364.	6.5	35

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19	Mechanics of Anteroposterior Axis Formation in Vertebrates. Annual Review of Cell and Developmental Biology, 2019, 35, 259-283.	4.0	43
20	The Lin28/let-7 Pathway Regulates the Mammalian Caudal Body Axis Elongation Program. Developmental Cell, 2019, 48, 396-405.e3.	3.1	60
21	SarcTrack. Circulation Research, 2019, 124, 1172-1183.	2.0	94
22	Timed Collinear Activation of Hox Genes during Gastrulation Controls the Avian Forelimb Position. Current Biology, 2019, 29, 35-50.e4.	1.8	50
23	Introducing preLights: preprint highlights, selected by the biological community. Development (Cambridge), 2018, 145, .	1.2	2
24	And one last thing. Development (Cambridge), 2018, 145, .	1.2	1
25	Recapitulating early development of mouse musculoskeletal precursors of the paraxial mesoderm <i>in vitro</i> . Development (Cambridge), 2018, 145, .	1.2	53
26	Ce n'est qu'un au revoir. Development (Cambridge), 2018, 145, .	1.2	3
27	Human development: recent progress and future prospects. Development (Cambridge), 2018, 145, .	1.2	0
28	Advocating developmental biology. Development (Cambridge), 2018, 145, .	1.2	2
29	The Long Road to Making Muscle In Vitro. Current Topics in Developmental Biology, 2018, 129, 123-142.	1.0	24
30	Somite formation in the chicken embryo. International Journal of Developmental Biology, 2018, 62, 57-62.	0.3	20
31	<i>PAPC</i> couples the segmentation clock to somite morphogenesis by regulating N-cadherin dependent adhesion. Development (Cambridge), 2017, 144, 664-676.	1.2	27
32	A Gradient of Glycolytic Activity Coordinates FGF and Wnt Signaling during Elongation of the Body Axis in Amniote Embryos. Developmental Cell, 2017, 40, 342-353.e10.	3.1	156
33	Making muscle: skeletal myogenesis <i>in vivo</i> and <i>in vitro</i> . Development (Cambridge), 2017, 144, 2104-2122.	1.2	577
34	Going format-free. Development (Cambridge), 2017, 144, 1919-1919.	1.2	0
35	The WHHERE coactivator complex is required for retinoic acid-dependent regulation of embryonic symmetry. Nature Communications, 2017, 8, 728.	5.8	27
36	Excitable Dynamics and Yap-Dependent Mechanical Cues Drive the Segmentation Clock. Cell, 2017, 171, 668-682.e11.	13.5	117

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37	Multiscale quantification of tissue behavior during amniote embryo axis elongation. <i>Development</i> (Cambridge), 2017, 144, 4462-4472.	1.2	60
38	The times they are a-changinâ€™™. <i>Development</i> (Cambridge), 2017, 144, 1-2.	1.2	7
39	Editorial changes. <i>Development</i> (Cambridge), 2017, , .	1.2	0
40	Introducing cross-referee commenting in peer review. <i>Development</i> (Cambridge), 2016, 143, 3035-3036.	1.2	3
41	Generation of human muscle fibers and satellite-like cells from human pluripotent stem cells in vitro. <i>Nature Protocols</i> , 2016, 11, 1833-1850.	5.5	215
42	Future developments: your thoughts and our plans. <i>Development</i> (Cambridge), 2016, 143, 1-2.	1.2	8
43	Standing Up for Sticklebacks. <i>Cell</i> , 2016, 164, 9-10.	13.5	0
44	Human development: a Special Issue. <i>Development</i> (Cambridge), 2015, 142, 3071-3072.	1.2	2
45	Developing peer review. <i>Development</i> (Cambridge), 2015, 142, 1389-1389.	1.2	3
46	Developing a new look. <i>Development</i> (Cambridge), 2015, 142, 3803-3804.	1.2	1
47	Differentiation of pluripotent stem cells to muscle fiber to model Duchenne muscular dystrophy. <i>Nature Biotechnology</i> , 2015, 33, 962-969.	9.4	339
48	Independent regulation of vertebral number and vertebral identity by microRNA-196 paralogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4884-93.	3.3	60
49	Looking inwards: opening a window onto human development. <i>Development</i> (Cambridge), 2015, 142, 1-2.	1.2	13
50	Hox genes control vertebrate body elongation by collinear Wnt repression. <i>ELife</i> , 2015, 4, .	2.8	106
51	Integrative Data Mining Highlights Candidate Genes for Monogenic Myopathies. <i>PLoS ONE</i> , 2014, 9, e110888.	1.1	16
52	Ethical development. <i>Development</i> (Cambridge), 2014, 141, 3439-3440.	1.2	1
53	Developing with the community. <i>Development</i> (Cambridge), 2014, 141, 3-4.	1.2	0
54	A relative shift in cloacal location repositions external genitalia in amniote evolution. <i>Nature</i> , 2014, 516, 391-394.	13.7	70

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55	Signalling dynamics in vertebrate segmentation. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 709-721.	16.1	317
56	Managing patterns and proportions over time. <i>Science</i> , 2014, 345, 1565-1566.	6.0	0
57	Manteia, a predictive data mining system for vertebrate genes and its applications to human genetic diseases. <i>Nucleic Acids Research</i> , 2014, 42, D882-D891.	6.5	25
58	Formation and Segmentation of the Vertebrate Body Axis. <i>Annual Review of Cell and Developmental Biology</i> , 2013, 29, 1-26.	4.0	133
59	Making the Clock Tick: Right Time, Right Pace. <i>Developmental Cell</i> , 2013, 24, 115-116.	3.1	5
60	Reprogramming development. <i>Development (Cambridge)</i> , 2013, 140, 1-2.	1.2	3
61	The San Francisco Declaration on Research Assessment. <i>Development (Cambridge)</i> , 2013, 140, 2643-2644.	1.2	2
62	Stem cells and regeneration: a special issue. <i>Development (Cambridge)</i> , 2013, 140, 2445-2445.	1.2	3
63	<i>Development</i>: looking to the future. <i>Development (Cambridge)</i> , 2012, 139, 1893-1894.	1.2	2
64	Evolutionary plasticity of segmentation clock networks. <i>Development (Cambridge)</i> , 2011, 138, 2783-2792.	1.2	166
65	Vertebrate Segmentation: From Cyclic Gene Networks to Scoliosis. <i>Cell</i> , 2011, 145, 650-663.	13.5	306
66	Steering a changing course. <i>Development (Cambridge)</i> , 2011, 138, 1-2.	1.2	2
67	The Node: a place to discuss, debate and deliberate developmental biology. <i>Development (Cambridge)</i> , 2010, 137, 2251-2251.	1.2	2
68	Sex-dimorphic gene expression and ineffective dosage compensation of Z-linked genes in gastrulating chicken embryos. <i>BMC Genomics</i> , 2010, 11, 13.	1.2	61
69	Rere controls retinoic acid signalling and somite bilateral symmetry. <i>Nature</i> , 2010, 463, 953-957.	13.7	103
70	Changes in Hox genesâ€™ structure and function during the evolution of the squamate body plan. <i>Nature</i> , 2010, 464, 99-103.	13.7	160
71	A random cell motility gradient downstream of FGF controls elongation of an amniote embryo. <i>Nature</i> , 2010, 466, 248-252.	13.7	289
72	Spatiotemporal compartmentalization of key physiological processes during muscle precursor differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4224-4229.	3.3	37

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73	Lighting up developmental mechanisms: how fluorescence imaging heralded a new era. <i>Development</i> (Cambridge), 2010, 137, 373-387.	1.2	47
74	Signaling Gradients during Paraxial Mesoderm Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a000869-a000869.	2.3	205
75	Incomplete penetrance and phenotypic variability characterize Gdf6-attributable oculo-skeletal phenotypes. <i>Human Molecular Genetics</i> , 2009, 18, 1110-1121.	1.4	92
76	Cyclic <i>Nrarp</i> mRNA expression is regulated by the somitic oscillator but Nrarp protein levels do not oscillate. <i>Developmental Dynamics</i> , 2009, 238, 3043-3055.	0.8	16
77	Developmental control of segment numbers in vertebrates. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2009, 312B, 533-544.	0.6	80
78	Progress in the Understanding of the Genetic Etiology of Vertebral Segmentation Disorders in Humans. <i>Annals of the New York Academy of Sciences</i> , 2009, 1151, 38-67.	1.8	70
79	More Than Patterning—Hox Genes and the Control of Posterior Axial Elongation. <i>Developmental Cell</i> , 2009, 17, 439-440.	3.1	4
80	Chapter 7 Establishment of Hox Vertebral Identities in the Embryonic Spine Precursors. <i>Current Topics in Developmental Biology</i> , 2009, 88, 201-234.	1.0	80
81	Modeling the segmentation clock as a network of coupled oscillations in the Notch, Wnt and FGF signaling pathways. <i>Journal of Theoretical Biology</i> , 2008, 252, 574-585.	0.8	162
82	Mutations in the MESP2 Gene Cause Spondylothoracic Dysostosis/Jarcho-Levin Syndrome. <i>American Journal of Human Genetics</i> , 2008, 82, 1334-1341.	2.6	79
83	Control of segment number in vertebrate embryos. <i>Nature</i> , 2008, 454, 335-339.	13.7	398
84	A β -catenin gradient links the clock and wavefront systems in mouse embryo segmentation. <i>Nature Cell Biology</i> , 2008, 10, 186-193.	4.6	286
85	Segmental patterning of the vertebrate embryonic axis. <i>Nature Reviews Genetics</i> , 2008, 9, 370-382.	7.7	331
86	Oscillating signaling pathways during embryonic development. <i>Current Opinion in Cell Biology</i> , 2008, 20, 632-637.	2.6	106
87	Developmental Biology: Cell Intercalation One Step beyond. <i>Current Biology</i> , 2008, 18, R119-R121.	1.8	1
88	Retinoic acid. <i>Current Biology</i> , 2008, 18, R191-R192.	1.8	20
89	Pattern formation and developmental mechanisms. <i>Current Opinion in Genetics and Development</i> , 2008, 18, 285-286.	1.5	0
90	The vertebrate segmentation clock: the tip of the iceberg. <i>Current Opinion in Genetics and Development</i> , 2008, 18, 317-323.	1.5	59

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91	Chapter 13 Manipulation and Electroporation of the Avian Segmental Plate and Somites In Vitro. <i>Methods in Cell Biology</i> , 2008, 87, 257-270.	0.5	25
92	Comparison of Pattern Detection Methods in Microarray Time Series of the Segmentation Clock. <i>PLoS ONE</i> , 2008, 3, e2856.	1.1	38
93	FGF signaling acts upstream of the NOTCH and WNT signaling pathways to control segmentation clock oscillations in mouse somitogenesis. <i>Development (Cambridge)</i> , 2007, 134, 4033-4041.	1.2	161
94	Dual mode of paraxial mesoderm formation during chick gastrulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2744-2749.	3.3	70
95	Abnormal vertebral segmentation and the notch signaling pathway in man. <i>Developmental Dynamics</i> , 2007, 236, 1456-1474.	0.8	143
96	Sharp developmental thresholds defined through bistability by antagonistic gradients of retinoic acid and FGF signaling. <i>Developmental Dynamics</i> , 2007, 236, 1495-1508.	0.8	126
97	Editorial on Segmentation Focus. <i>Developmental Dynamics</i> , 2007, 236, 1377-1378.	0.8	0
98	<i>Hox</i> genes in time and space during vertebrate body formation. <i>Development Growth and Differentiation</i> , 2007, 49, 265-275.	0.6	115
99	A Complex Oscillating Network of Signaling Genes Underlies the Mouse Segmentation Clock. <i>Science</i> , 2006, 314, 1595-1598.	6.0	418
100	Oscillations of the Snail Genes in the Presomitic Mesoderm Coordinate Segmental Patterning and Morphogenesis in Vertebrate Somitogenesis. <i>Developmental Cell</i> , 2006, 10, 355-366.	3.1	138
101	Collinear activation of <i>Hoxb</i> genes during gastrulation is linked to mesoderm cell ingression. <i>Nature</i> , 2006, 442, 568-571.	13.7	196
102	On periodicity and directionality of somitogenesis. <i>Anatomy and Embryology</i> , 2006, 211, 3-8.	1.5	30
103	Retinoic acid coordinates somitogenesis and left-right patterning in vertebrate embryos. <i>Nature</i> , 2005, 435, 215-220.	13.7	239
104	A new canon. <i>Nature</i> , 2005, 433, 208-209.	13.7	20
105	Chicken genome: New tools and concepts. <i>Developmental Dynamics</i> , 2005, 232, 883-886.	0.8	14
106	Synchronised cycling gene oscillations in presomitic mesoderm cells require cell-cell contact. <i>International Journal of Developmental Biology</i> , 2005, 49, 309-315.	0.3	86
107	Control of the segmentation process by graded MAPK/ERK activation in the chick embryo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11343-11348.	3.3	165
108	In vivo analysis of mRNA stability using the Tet-Off system in the chicken embryo. <i>Developmental Biology</i> , 2005, 284, 292-300.	0.9	35

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109	Coupling segmentation to axis formation. <i>Development (Cambridge)</i> , 2004, 131, 5783-5793.	1.2	183
110	fgf8 mRNA decay establishes a gradient that couples axial elongation to patterning in the vertebrate embryo. <i>Nature</i> , 2004, 427, 419-422.	13.7	380
111	The chick embryo: a leading model in somitogenesis studies. <i>Mechanisms of Development</i> , 2004, 121, 1069-1079.	1.7	89
112	Axon fasciculation defects and retinal dysplasias in mice lacking the immunoglobulin superfamily adhesion molecule BEN/ALCAM/SC1. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 59-69.	1.0	100
113	Segmentation clock: insights from computational models. <i>Current Biology</i> , 2003, 13, R632-R634.	1.8	26
114	BEN/DM-GRASP/SC1 expression during mouse facial development: differential expression and regulation in molars and incisors. <i>Gene Expression Patterns</i> , 2003, 3, 255-259.	0.3	3
115	Synthesis of new 3-alkoxy-7-amino-4-chloro-isocoumarin derivatives as new β -amyloid peptide production inhibitors and their activities on various classes of protease. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 3141-3152.	1.4	44
116	Welcome to Syndetome. <i>Developmental Cell</i> , 2003, 4, 611-612.	3.1	13
117	The Segmentation Clock: Converting Embryonic Time into Spatial Pattern. <i>Science</i> , 2003, 301, 328-330.	6.0	487
118	GENETICS: Chicken Genome--Science Nuggets to Come Soon. <i>Science</i> , 2003, 300, 1669-1669.	6.0	61
119	Vertebrate somitogenesis: a novel paradigm for animal segmentation?. <i>International Journal of Developmental Biology</i> , 2003, 47, 597-603.	0.3	53
120	From head to tail: links between the segmentation clock and antero-posterior patterning of the embryo. <i>Current Opinion in Genetics and Development</i> , 2002, 12, 519-523.	1.5	56
121	Vertebrate Segmentation: Lunatic Transcriptional Regulation. <i>Current Biology</i> , 2002, 12, R699-R701.	1.8	4
122	Vertebrate Somitogenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 311-350.	4.0	234
123	A Nomenclature for Prospective Somites and Phases of Cyclic Gene Expression in the Presomitic Mesoderm. <i>Developmental Cell</i> , 2001, 1, 619-620.	3.1	101
124	FGF Signaling Controls Somite Boundary Position and Regulates Segmentation Clock Control of Spatiotemporal Hox Gene Activation. <i>Cell</i> , 2001, 106, 219-232.	13.5	628
125	A molecular clock involved in Somite segmentation. <i>Current Topics in Developmental Biology</i> , 2001, 51, 221-248.	1.0	66
126	The vertebrate segmentation clock. <i>Journal of Anatomy</i> , 2001, 199, 169-175.	0.9	51

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127	A macho way to make muscles. <i>Nature</i> , 2001, 409, 679-680.	13.7	17
128	New protease inhibitors prevent \hat{I}^3 -secretase-mediated production of $\hat{A}^{240/42}$ without affecting Notch cleavage. <i>Nature Cell Biology</i> , 2001, 3, 507-511.	4.6	181
129	A clock-work somite. <i>BioEssays</i> , 2000, 22, 72-83.	1.2	92
130	Vertebrate segmentation: is cycling the rule?. <i>Current Opinion in Cell Biology</i> , 2000, 12, 747-751.	2.6	15
131	Skin development: Delta laid bare. <i>Current Biology</i> , 2000, 10, R425-R428.	1.8	27
132	Somite formation and patterning. <i>International Review of Cytology</i> , 2000, 198, 1-65.	6.2	61
133	Oscillating Expression of c-Hey2 in the Presomitic Mesoderm Suggests That the Segmentation Clock May Use Combinatorial Signaling through Multiple Interacting bHLH Factors. <i>Developmental Biology</i> , 2000, 227, 91-103.	0.9	139
134	Expression of DM-GRASP/BEN in the developing mouse spinal cord and various epithelia. <i>Mechanisms of Development</i> , 2000, 95, 221-224.	1.7	13
135	3 Segmentation of the Paraxial Mesoderm and Vertebrate Somitogenesis. <i>Current Topics in Developmental Biology</i> , 1999, 47, 81-105.	1.0	48
136	Notch around the clock. <i>Current Opinion in Genetics and Development</i> , 1999, 9, 559-565.	1.5	66
137	The lunatic Fringe gene is a target of the molecular clock linked to somite segmentation in avian embryos. <i>Current Biology</i> , 1998, 8, 979-982.	1.8	247
138	Uncoupling segmentation and somitogenesis in the chick presomitic mesoderm. , 1998, 23, 77-85.		87
139	Somitogenesis: segmenting a vertebrate. <i>Current Opinion in Genetics and Development</i> , 1998, 8, 487-493.	1.5	68
140	Clocks regulating developmental processes. <i>Current Opinion in Neurobiology</i> , 1998, 8, 665-670.	2.0	28
141	Expression of Genes (CAPN3, SGCA, SGCB, and TTN) Involved in Progressive Muscular Dystrophies during Early Human Development. <i>Genomics</i> , 1998, 48, 145-156.	1.3	59
142	Avian hairy Gene Expression Identifies a Molecular Clock Linked to Vertebrate Segmentation and Somitogenesis. <i>Cell</i> , 1997, 91, 639-648.	13.5	880
143	Maintenance of neuroepithelial progenitor cells by Deltaâ€“Notch signalling in the embryonic chick retina. <i>Current Biology</i> , 1997, 7, 661-670.	1.8	394
144	Induction of oligodendrocyte progenitors in the trunk neural tube by ventralizing signals: effects of notochord and floor plate grafts, and of sonic hedgehog. <i>Mechanisms of Development</i> , 1996, 60, 13-32.	1.7	136

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145	Lateral and Axial Signals Involved in Avian Somite Patterning: A Role for BMP4. <i>Cell</i> , 1996, 84, 461-471.	13.5	390
146	BEN As a Presumptive Target Recognition Molecule during the Development of the Olivocerebellar System. <i>Journal of Neuroscience</i> , 1996, 16, 3296-3310.	1.7	86
147	Chapter 1 Cell migrations and establishment of neuronal connections in the developing brain: a study using the quail-chick chimera system. <i>Progress in Brain Research</i> , 1994, 100, 3-18.	0.9	6
148	Identification in the Chicken of GRL1 and GRL2: Two Granule Proteins Expressed on the Surface of Activated Leukocytes. <i>Experimental Cell Research</i> , 1993, 204, 156-166.	1.2	11
149	BEN, a novel surface molecule of the immunoglobulin superfamily on avian hemopoietic progenitor cells shared with neural cells. <i>Experimental Cell Research</i> , 1992, 203, 91-99.	1.2	29
150	An antigen expressed by avian neuronal cells is also expressed by activated T lymphocytes. <i>Cellular Immunology</i> , 1992, 141, 99-110.	1.4	25