

Lionel A Christiaen

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,845
citations

201674

27
h-index

206112

48
g-index

77
all docs

77
docs citations

77
times ranked

1899
citing authors

#	ARTICLE	IF	CITATIONS
1	A new heart for a new head in vertebrate cardiopharyngeal evolution. <i>Nature</i> , 2015, 520, 466-473.	27.8	201
2	Early Chordate Origins of the Vertebrate Second Heart Field. <i>Science</i> , 2010, 329, 565-568.	12.6	165
3	FGF signaling delineates the cardiac progenitor field in the simple chordate, <i>Ciona intestinalis</i> . <i>Genes and Development</i> , 2006, 20, 2728-2738.	5.9	143
4	Tissue-specific genome editing in <i>Ciona</i> embryos by CRISPR/Cas9. <i>Development (Cambridge)</i> , 2014, 141, 4115-4120.	2.5	137
5	Migratory neuronal progenitors arise from the neural plate borders in tunicates. <i>Nature</i> , 2015, 527, 371-374.	27.8	133
6	The Transcription/Migration Interface in Heart Precursors of <i>Ciona intestinalis</i> . <i>Science</i> , 2008, 320, 1349-1352.	12.6	131
7	<i>FoxF</i> is essential for FGF-induced migration of heart progenitor cells in the ascidian <i>Ciona intestinalis</i> . <i>Development (Cambridge)</i> , 2007, 134, 3297-3305.	2.5	106
8	The ANISEED database: Digital representation, formalization, and elucidation of a chordate developmental program. <i>Genome Research</i> , 2010, 20, 1459-1468.	5.5	105
9	Collier/OLF/EBF-Dependent Transcriptional Dynamics Control Pharyngeal Muscle Specification from Primed Cardiopharyngeal Progenitors. <i>Developmental Cell</i> , 2014, 29, 263-276.	7.0	96
10	ANISEED 2017: extending the integrated ascidian database to the exploration and evolutionary comparison of genome-scale datasets. <i>Nucleic Acids Research</i> , 2018, 46, D718-D725.	14.5	90
11	Electroporation of Transgenic DNAs in the Sea Squirt <i>Ciona</i> . <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5345.	0.3	88
12	Isolation of Sea Squirt (<i>Ciona</i>) Gametes, Fertilization, Dechoriation, and Development: Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5344.	0.3	85
13	A single-cell transcriptional roadmap for cardiopharyngeal fate diversification. <i>Nature Cell Biology</i> , 2019, 21, 674-686.	10.3	78
14	NK4 Antagonizes Tbx1/10 to Promote Cardiac versus Pharyngeal Muscle Fate in the Ascidian Second Heart Field. <i>PLoS Biology</i> , 2013, 11, e1001725.	5.6	70
15	Evaluation and rational design of guide RNAs for efficient CRISPR/Cas9-mediated mutagenesis in <i>Ciona</i> . <i>Developmental Biology</i> , 2017, 425, 8-20.	2.0	69
16	Divergent mechanisms regulate conserved cardiopharyngeal development and gene expression in distantly related ascidians. <i>ELife</i> , 2014, 3, e03728.	6.0	69
17	Genetic and Genomic Toolbox of the Chordate <i>Ciona intestinalis</i> . <i>Genetics</i> , 2012, 192, 55-66.	2.9	63
18	A modular cis-regulatory system controls isoform-specific pitx expression in ascidian stomodaeum. <i>Developmental Biology</i> , 2005, 277, 557-566.	2.0	59

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19	Guidelines for the nomenclature of genetic elements in tunicate genomes. <i>Genesis</i> , 2015, 53, 1-14.	1.6	59
20	Fibroblast growth factor signalling controls nervous system patterning and pigment cell formation in <i>Ciona intestinalis</i> . <i>Nature Communications</i> , 2014, 5, 4830.	12.8	58
21	Spatio-temporal intersection of <i>Lhx3</i> and <i>Tbx6</i> defines the cardiac field through synergistic activation of <i>Mesp</i> . <i>Developmental Biology</i> , 2009, 328, 552-560.	2.0	55
22	A conserved regulatory program initiates lateral plate mesoderm emergence across chordates. <i>Nature Communications</i> , 2019, 10, 3857.	12.8	51
23	Evolutionary modification of mouth position in deuterostomes. <i>Seminars in Cell and Developmental Biology</i> , 2007, 18, 502-511.	5.0	40
24	Whole-Mount In Situ Hybridization on Sea Squirt (<i>Ciona intestinalis</i>) Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5348.	0.3	40
25	Evolutionary recruitment of flexible <i>Esrp</i> -dependent splicing programs into diverse embryonic morphogenetic processes. <i>Nature Communications</i> , 2017, 8, 1799.	12.8	40
26	BMP signaling coordinates gene expression and cell migration during precardiac mesoderm development. <i>Developmental Biology</i> , 2010, 340, 179-187.	2.0	39
27	Regulation and evolution of cardiopharyngeal cell identity and behavior: insights from simple chordates. <i>Current Opinion in Genetics and Development</i> , 2015, 32, 119-128.	3.3	38
28	Evolutionary loss of melanogenesis in the tunicate <i>Molgula occulta</i> . <i>EvoDevo</i> , 2017, 8, 11.	3.2	38
29	CRISPR Knockouts in <i>Ciona</i> Embryos. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1029, 141-152.	1.6	38
30	<i>Ciona</i> as a Simple Chordate Model for Heart Development and Regeneration. <i>Journal of Cardiovascular Development and Disease</i> , 2016, 3, 25.	1.6	34
31	Conserved Epigenetic Regulatory Logic Infers Genes Governing Cell Identity. <i>Cell Systems</i> , 2020, 11, 625-639.e13.	6.2	31
32	Single cell multi-omic analysis identifies a <i>Tbx1</i> -dependent multilineage primed population in murine cardiopharyngeal mesoderm. <i>Nature Communications</i> , 2021, 12, 6645.	12.8	31
33	An FGF-driven feed-forward circuit patterns the cardiopharyngeal mesoderm in space and time. <i>ELife</i> , 2018, 7, .	6.0	30
34	Transcriptional Control of Developmental Cell Behaviors. <i>Annual Review of Cell and Developmental Biology</i> , 2016, 32, 77-101.	9.4	29
35	Rewiring of an ancestral <i>Tbx1/10-Ebf-Mrf</i> network for pharyngeal muscle specification in distinct embryonic lineages. <i>Development (Cambridge)</i> , 2016, 143, 3852-3862.	2.5	28
36	Discoidin-domain receptor coordinates cell-matrix adhesion and collective polarity in migratory cardiopharyngeal progenitors. <i>Nature Communications</i> , 2019, 10, 57.	12.8	27

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37	Purification of Fluorescent Labeled Cells from Dissociated Ciona Embryos. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1029, 101-107.	1.6	26
38	Combinatorial chromatin dynamics foster accurate cardiopharyngeal fate choices. <i>ELife</i> , 2019, 8, .	6.0	23
39	Surrounding tissues canalize motile cardiopharyngeal progenitors towards collective polarity and directed migration. <i>Development (Cambridge)</i> , 2015, 142, 544-54.	2.5	22
40	The Sea Squirt <i>Ciona intestinalis</i> : Figure 1.. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.emo138.	0.3	21
41	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. <i>PLoS Computational Biology</i> , 2021, 17, e1008569.	3.2	19
42	Isolation of Individual Cells and Tissues from Electroporated Sea Squirt (<i>Ciona</i>) Embryos by Fluorescence-Activated Cell Sorting (FACS). <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5349.	0.3	18
43	GATA4/5/6 family transcription factors are conserved determinants of cardiac versus pharyngeal mesoderm fate. <i>Science Advances</i> , 2022, 8, eabg0834.	10.3	14
44	Microinjection of Morpholino Oligos and RNAs in Sea Squirt (<i>Ciona</i>) Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5347.	0.3	13
45	Transcriptional Enhancers in Ascidian Development. <i>Current Topics in Developmental Biology</i> , 2012, 98, 147-172.	2.2	12
46	A complete statistical model for calibration of RNA-seq counts using external spike-ins and maximum likelihood theory. <i>PLoS Computational Biology</i> , 2019, 15, e1006794.	3.2	9
47	Simple Method to Quantify Protein Abundances from 1000 Cells. <i>ACS Omega</i> , 2020, 5, 15537-15546.	3.5	6
48	Initial characterization of Wnt-Tcf functions during Ciona heart development. <i>Developmental Biology</i> , 2019, 448, 199-209.	2.0	5
49	Asymmetric Fitness of Second-Generation Interspecific Hybrids Between <i>Ciona robusta</i> and <i>Ciona intestinalis</i> . <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2697-2711.	1.8	5
50	A cis-regulatory change underlying the motor neuron-specific loss of Ebf expression in immotile tunicate larvae. <i>Evolution & Development</i> , 2021, 23, 72-85.	2.0	4
51	Supracellular organization confers directionality and mechanical potency to migrating pairs of cardiopharyngeal progenitor cells. <i>ELife</i> , 2021, 10, .	6.0	3
52	X-gal Staining of Electroporated Sea Squirt (<i>Ciona</i>) Embryos. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5346-pdb.prot5346.	0.3	2
53	Cis-Regulatory Timers for Developmental Gene Expression. <i>PLoS Biology</i> , 2013, 11, e1001698.	5.6	1
54	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0

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55	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
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57	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
58	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
59	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0