Lionel A Christiaen

List of Publications by Year
in descending order

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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	GATA4/5/6 family transcription factors are conserved determinants of cardiac versus pharyngeal mesoderm fate. Science Advances, 2022, 8, eabg0834.	10.3	14
2	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. PLoS Computational Biology, 2021, 17, e1008569.	3.2	19
3	A cis â€regulatory change underlying the motor neuronâ€specific loss of Ebf expression in immotile tunicate larvae. Evolution & Development, 2021, 23, 72-85.	2.0	4
4	Supracellular organization confers directionality and mechanical potency to migrating pairs of cardiopharyngeal progenitor cells. ELife, 2021, 10, .	6.0	3
5	Single cell multi-omic analysis identifies a Tbx1-dependent multilineage primed population in murine cardiopharyngeal mesoderm. Nature Communications, 2021, 12, 6645.	12.8	31
6	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
7	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
8	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
9	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
10	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
11	Optimal tuning of weighted kNN- and diffusion-based methods for denoising single cell genomics data. , 2021, 17, e1008569.		0
12	Conserved Epigenetic Regulatory Logic Infers Genes Governing Cell Identity. Cell Systems, 2020, 11, 625-639.e13.	6.2	31
13	Asymmetric Fitness of Second-Generation Interspecific Hybrids BetweenCiona robustaandCiona intestinalis. G3: Genes, Genomes, Genetics, 2020, 10, 2697-2711.	1.8	5
14	Simple Method to Quantify Protein Abundances from 1000 Cells. ACS Omega, 2020, 5, 15537-15546.	3.5	6
15	A conserved regulatory program initiates lateral plate mesoderm emergence across chordates. Nature Communications, 2019, 10, 3857.	12.8	51
16	Initial characterization of Wnt-Tcf functions during Ciona heart development. Developmental Biology, 2019, 448, 199-209.	2.0	5
17	Discoidin-domain receptor coordinates cell-matrix adhesion and collective polarity in migratory cardiopharyngeal progenitors. Nature Communications, 2019, 10, 57.	12.8	27
18	A single-cell transcriptional roadmap for cardiopharyngeal fate diversification. Nature Cell Biology, 2019, 21, 674-686.	10.3	78

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19	A complete statistical model for calibration of RNA-seq counts using external spike-ins and maximum likelihood theory. PLoS Computational Biology, 2019, 15, e1006794.	3.2	9
20	Combinatorial chromatin dynamics foster accurate cardiopharyngeal fate choices. ELife, 2019, 8, .	6.0	23
21	ANISEED 2017: extending the integrated ascidian database to the exploration and evolutionary comparison of genome-scale datasets. Nucleic Acids Research, 2018, 46, D718-D725.	14.5	90
22	CRISPR Knockouts in Ciona Embryos. Advances in Experimental Medicine and Biology, 2018, 1029, 141-152.	1.6	38
23	Purification of Fluorescent Labeled Cells from Dissociated Ciona Embryos. Advances in Experimental Medicine and Biology, 2018, 1029, 101-107.	1.6	26
24	An FGF-driven feed-forward circuit patterns the cardiopharyngeal mesoderm in space and time. ELife, 2018, 7, .	6.0	30
25	Evaluation and rational design of guide RNAs for efficient CRISPR/Cas9-mediated mutagenesis in Ciona. Developmental Biology, 2017, 425, 8-20.	2.0	69
26	Evolutionary recruitment of flexible Esrp-dependent splicing programs into diverse embryonic morphogenetic processes. Nature Communications, 2017, 8, 1799.	12.8	40
27	Evolutionary loss of melanogenesis in the tunicate Molgula occulta. EvoDevo, 2017, 8, 11.	3.2	38
28	Ciona as a Simple Chordate Model for Heart Development and Regeneration. Journal of Cardiovascular Development and Disease, 2016, 3, 25.	1.6	34
29	Transcriptional Control of Developmental Cell Behaviors. Annual Review of Cell and Developmental Biology, 2016, 32, 77-101.	9.4	29
30	Rewiring of an ancestral Tbx1/10-Ebf-Mrf network for pharyngeal muscle specification in distinct embryonic lineages. Development (Cambridge), 2016, 143, 3852-3862.	2.5	28
31	Guidelines for the nomenclature of genetic elements in tunicate genomes. Genesis, 2015, 53, 1-14.	1.6	59
32	Surrounding tissues canalize motile cardiopharyngeal progenitors towards collective polarity and directed migration. Development (Cambridge), 2015, 142, 544-54.	2.5	22
33	A new heart for a new head in vertebrate cardiopharyngeal evolution. Nature, 2015, 520, 466-473.	27.8	201
34	Regulation and evolution of cardiopharyngeal cell identity and behavior: insights from simple chordates. Current Opinion in Genetics and Development, 2015, 32, 119-128.	3.3	38
35	Migratory neuronal progenitors arise from the neural plate borders in tunicates. Nature, 2015, 527, 371-374.	27.8	133
36	Fibroblast growth factor signalling controls nervous system patterning and pigment cell formation in Ciona intestinalis. Nature Communications, 2014, 5, 4830.	12.8	58

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37	Collier/OLF/EBF-Dependent Transcriptional Dynamics Control Pharyngeal Muscle Specification from Primed Cardiopharyngeal Progenitors. Developmental Cell, 2014, 29, 263-276.	7.0	96
38	Tissue-specific genome editing in Ciona embryos by CRISPR/Cas9. Development (Cambridge), 2014, 141, 4115-4120.	2.5	137
39	Divergent mechanisms regulate conserved cardiopharyngeal development and gene expression in distantly related ascidians. ELife, 2014, 3, e03728.	6.0	69
40	NK4 Antagonizes Tbx1/10 to Promote Cardiac versus Pharyngeal Muscle Fate in the Ascidian Second Heart Field. PLoS Biology, 2013, 11, e1001725.	5.6	70
41	Cis-Regulatory Timers for Developmental Gene Expression. PLoS Biology, 2013, 11, e1001698.	5.6	1
42	Genetic and Genomic Toolbox of the Chordate Ciona intestinalis. Genetics, 2012, 192, 55-66.	2.9	63
43	Transcriptional Enhancers in Ascidian Development. Current Topics in Developmental Biology, 2012, 98, 147-172.	2.2	12
44	The ANISEED database: Digital representation, formalization, and elucidation of a chordate developmental program. Genome Research, 2010, 20, 1459-1468.	5.5	105
45	BMP signaling coordinates gene expression and cell migration during precardiac mesoderm development. Developmental Biology, 2010, 340, 179-187.	2.0	39
46	Early Chordate Origins of the Vertebrate Second Heart Field. Science, 2010, 329, 565-568.	12.6	165
47	Isolation of Individual Cells and Tissues from Electroporated Sea Squirt (Ciona) Embryos by Fluorescence-Activated Cell Sorting (FACS). Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5349.	0.3	18
48	Isolation of Sea Squirt (Ciona) Gametes, Fertilization, Dechorionation, and Development: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5344.	0.3	85
49	Microinjection of Morpholino Oligos and RNAs in Sea Squirt (Ciona) Embryos. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5347.	0.3	13
50	The Sea Squirt Ciona intestinalis: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo138.	0.3	21
51	X-gal Staining of Electroporated Sea Squirt (Ciona) Embryos. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5346-pdb.prot5346.	0.3	2
52	Whole-Mount In Situ Hybridization on Sea Squirt (Ciona intestinalis) Embryos. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5348.	0.3	40
53	Spatio-temporal intersection of Lhx3 and Tbx6 defines the cardiac field through synergistic activation of Mesp. Developmental Biology, 2009, 328, 552-560.	2.0	55
54	Electroporation of Transgenic DNAs in the Sea Squirt Ciona. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5345.	0.3	88

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55	The Transcription/Migration Interface in Heart Precursors of Ciona intestinalis. Science, 2008, 320, 1349-1352.	12.6	131
56	FoxFis essential for FGF-induced migration of heart progenitor cells in the ascidianCiona intestinalis. Development (Cambridge), 2007, 134, 3297-3305.	2.5	106
57	Evolutionary modification of mouth position in deuterostomes. Seminars in Cell and Developmental Biology, 2007, 18, 502-511.	5.0	40
58	FGF signaling delineates the cardiac progenitor field in the simple chordate, Ciona intestinalis. Genes and Development, 2006, 20, 2728-2738.	5.9	143
59	A modular cis-regulatory system controls isoform-specific pitx expression in ascidian stomodÃ¦um. Developmental Biology, 2005, 277, 557-566.	2.0	59