

Elly M Tanaka

List of Publications by Year in descending order

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77
papers

7,134
citations

71662

41
h-index

65217

79
g-index

94
all docs

94
docs citations

94
times ranked

5403
citing authors

#	ARTICLE	IF	CITATIONS
1	Cells keep a memory of their tissue origin during axolotl limb regeneration. <i>Nature</i> , 2009, 460, 60-65.	28.3	730
2	The Cellular Basis for Animal Regeneration. <i>Developmental Cell</i> , 2011, 21, 172-185.	7.2	463
3	The axolotl genome and the evolution of key tissue formation regulators. <i>Nature</i> , 2018, 554, 50-55.	28.3	463
4	Single-cell analysis uncovers convergence of cell identities during axolotl limb regeneration. <i>Science</i> , 2018, 362, .	12.9	291
5	Fundamental Differences in Dedifferentiation and Stem Cell Recruitment during Skeletal Muscle Regeneration in Two Salamander Species. <i>Cell Stem Cell</i> , 2014, 14, 174-187.	11.3	271
6	Ectoderm to Mesoderm Lineage Switching During Axolotl Tail Regeneration. <i>Science</i> , 2002, 298, 1993-1996.	12.9	227
7	Newt Myotubes Reenter the Cell Cycle by Phosphorylation of the Retinoblastoma Protein. <i>Journal of Cell Biology</i> , 1997, 136, 155-165.	5.3	194
8	Neural tube morphogenesis in synthetic 3D microenvironments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6831-E6839.	7.3	186
9	The Molecular and Cellular Choreography of Appendage Regeneration. <i>Cell</i> , 2016, 165, 1598-1608.	29.4	185
10	In Vivo Imaging Indicates Muscle Fiber Dedifferentiation Is a Major Contributor to the Regenerating Tail Blastema. <i>Developmental Biology</i> , 2001, 236, 151-164.	2.1	177
11	3D Reconstitution of the Patterned Neural Tube from Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2014, 3, 987-999.	4.9	175
12	A germline GFP transgenic axolotl and its use to track cell fate: Dual origin of the fin mesenchyme during development and the fate of blood cells during regeneration. <i>Developmental Biology</i> , 2006, 290, 386-397.	2.1	155
13	Hedgehog signaling controls dorsoventral patterning, blastema cell proliferation and cartilage induction during axolotl tail regeneration. <i>Development (Cambridge)</i> , 2005, 132, 3243-3253.	2.6	152
14	Limb Regeneration: A New Development?. <i>Annual Review of Cell and Developmental Biology</i> , 2011, 27, 409-440.	9.6	142
15	Giant lungfish genome elucidates the conquest of land by vertebrates. <i>Nature</i> , 2021, 590, 284-289.	28.3	132
16	Proximodistal identity during vertebrate limb regeneration is regulated by Meis homeodomain proteins. <i>Development (Cambridge)</i> , 2005, 132, 4131-4142.	2.6	131
17	FGF8 and SHH substitute for anterior-posterior tissue interactions to induce limb regeneration. <i>Nature</i> , 2016, 533, 407-410.	28.3	130
18	Thrombin regulates S-phase re-entry by cultured newt myotubes. <i>Current Biology</i> , 1999, 9, 792-799.	4.0	129

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19	Proximodistal patterning during limb regeneration. <i>Developmental Biology</i> , 2005, 279, 391-401.	2.1	127
20	A clonal analysis of neural progenitors during axolotl spinal cord regeneration reveals evidence for both spatially restricted and multipotent progenitors. <i>Development (Cambridge)</i> , 2007, 134, 2083-2093.	2.6	126
21	Live Imaging of Axolotl Digit Regeneration Reveals Spatiotemporal Choreography of Diverse Connective Tissue Progenitor Pools. <i>Developmental Cell</i> , 2016, 39, 411-423.	7.2	125
22	Comparative RNA-seq Analysis in the Unsequenced Axolotl: The Oncogene Burst Highlights Early Gene Expression in the Blastema. <i>PLoS Computational Biology</i> , 2013, 9, e1002936.	3.3	125
23	CRISPR-Mediated Genomic Deletion of Sox2 in the Axolotl Shows a Requirement in Spinal Cord Neural Stem Cell Amplification during Tail Regeneration. <i>Stem Cell Reports</i> , 2014, 3, 444-459.	4.9	119
24	Comparative Transcriptional Profiling of the Axolotl Limb Identifies a Tripartite Regeneration-Specific Gene Program. <i>PLoS ONE</i> , 2013, 8, e61352.	2.5	107
25	Limb regeneration. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2013, 2, 291-300.	5.9	94
26	Optimized axolotl (<i>Ambystoma mexicanum</i>) husbandry, breeding, metamorphosis, transgenesis and tamoxifen-mediated recombination. <i>Nature Protocols</i> , 2014, 9, 529-540.	12.2	93
27	Broad applicability of a streamlined Ethyl Cinnamate-based clearing procedure. <i>Development (Cambridge)</i> , 2019, 146, .	2.6	92
28	Efficient regeneration by activation of neurogenesis in homeostatically quiescent regions of the adult vertebrate brain. <i>Development (Cambridge)</i> , 2010, 137, 4127-4134.	2.6	90
29	A right-handed signalling pathway drives heart looping in vertebrates. <i>Nature</i> , 2017, 549, 86-90.	28.3	85
30	Efficient gene knockin in axolotl and its use to test the role of satellite cells in limb regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12501-12506.	7.3	84
31	Progressive Specification Rather than Intercalation of Segments During Limb Regeneration. <i>Science</i> , 2013, 342, 1375-1379.	12.9	83
32	MARCKS-like protein is an initiating molecule in axolotl appendage regeneration. <i>Nature</i> , 2016, 531, 237-240.	28.3	83
33	From biomedicine to natural history research: EST resources for ambystomatid salamanders. <i>BMC Genomics</i> , 2004, 5, 54.	2.9	79
34	Planar cell polarity-mediated induction of neural stem cell expansion during axolotl spinal cord regeneration. <i>ELife</i> , 2015, 4, e10230.	6.1	78
35	Salamander spinal cord regeneration: The ultimate positive control in vertebrate spinal cord regeneration. <i>Developmental Biology</i> , 2017, 432, 63-71.	2.1	75
36	Connective tissue cells, but not muscle cells, are involved in establishing the proximo-distal outcome of limb regeneration in the axolotl. <i>Development (Cambridge)</i> , 2013, 140, 513-518.	2.6	71

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37	Germline Transgenic Methods for Tracking Cells and Testing Gene Function during Regeneration in the Axolotl. <i>Stem Cell Reports</i> , 2013, 1, 90-103.	4.9	70
38	Reconstitution of the central and peripheral nervous system during salamander tail regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2258-66.	7.3	69
39	Fibroblast dedifferentiation as a determinant of successful regeneration. <i>Developmental Cell</i> , 2021, 56, 1541-1551.e6.	7.2	68
40	An <i>Ambystoma mexicanum</i> EST sequencing project: analysis of 17,352 expressed sequence tags from embryonic and regenerating blastema cDNA libraries. <i>Genome Biology</i> , 2004, 5, R67.	9.6	67
41	The giant axolotl genome uncovers the evolution, scaling, and transcriptional control of complex gene loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.3	66
42	Gene expression profile of the regeneration epithelium during axolotl limb regeneration. <i>Developmental Dynamics</i> , 2011, 240, 1826-1840.	1.9	58
43	A versatile depigmentation, clearing, and labeling method for exploring nervous system diversity. <i>Science Advances</i> , 2020, 6, eaba0365.	10.5	56
44	Quantitative evaluation of morpholino-mediated protein knockdown of GFP, MSX1, and PAX7 during tail regeneration in <i>Ambystoma mexicanum</i> . <i>Developmental Dynamics</i> , 2005, 232, 162-170.	1.9	41
45	Application and optimization of CRISPR-Cas9-mediated genome engineering in axolotl (<i>Ambystoma</i>) Tj ETQq1 1 0.784314 rgBT / O	12.2	34
46	Serum Proteases Potentiate BMP-Induced Cell Cycle Re-entry of Dedifferentiating Muscle Cells during Newt Limb Regeneration. <i>Developmental Cell</i> , 2017, 40, 608-617.e6.	7.2	33
47	Accelerated cell divisions drive the outgrowth of the regenerating spinal cord in axolotls. <i>ELife</i> , 2016, 5, .	6.1	32
48	A Comparative Perspective on Brain Regeneration in Amphibians and Teleost Fish. <i>Developmental Neurobiology</i> , 2019, 79, 424-436.	3.1	30
49	Tissue- and time-directed electroporation of CAS9 protein-gRNA complexes in vivo yields efficient multigene knockout for studying gene function in regeneration. <i>Npj Regenerative Medicine</i> , 2016, 1, 16002.	5.4	29
50	Bile canaliculi remodeling activates <i>YAP</i> via the actin cytoskeleton during liver regeneration. <i>Molecular Systems Biology</i> , 2020, 16, e8985.	7.4	29
51	The <i>Prrx1</i> limb enhancer marks an adult subpopulation of injury-responsive dermal fibroblasts. <i>Biology Open</i> , 2019, 8, .	1.2	26
52	Spatiotemporal control of cell cycle acceleration during axolotl spinal cord regeneration. <i>ELife</i> , 2021, 10, .	6.1	24
53	Foamy virus for efficient gene transfer in regeneration studies. <i>BMC Developmental Biology</i> , 2013, 13, 17.	2.1	23
54	Plasticity and Reprogramming of Differentiated Cells in Amphibian Regeneration: Partial Purification of a Serum Factor that Triggers Cell Cycle Re-Entry in Differentiated Muscle Cells. <i>Cloning and Stem Cells</i> , 2004, 6, 333-344.	2.6	21

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55	Mathematical Modeling of Regenerative Processes. <i>Current Topics in Developmental Biology</i> , 2014, 108, 283-317.	2.2	21
56	Signaling-Dependent Control of Apical Membrane Size and Self-Renewal in Rosette-Stage Human Neuroepithelial Stem Cells. <i>Stem Cell Reports</i> , 2018, 10, 1751-1765.	4.9	21
57	Emergence of novel cephalopod gene regulation and expression through large-scale genome reorganization. <i>Nature Communications</i> , 2022, 13, 2172.	13.1	21
58	Pseudotyped baculovirus is an effective gene expression tool for studying molecular function during axolotl limb regeneration. <i>Developmental Biology</i> , 2018, 433, 262-275.	2.1	19
59	Introducing www.axolotl-omics.org – an integrated -omics data portal for the axolotl research community. <i>Experimental Cell Research</i> , 2020, 394, 112143.	2.6	18
60	Reconstitution of a Patterned Neural Tube from Single Mouse Embryonic Stem Cells. <i>Methods in Molecular Biology</i> , 2017, 1597, 43-55.	0.9	16
61	The cellular and signaling dynamics of salamander limb regeneration. <i>Current Opinion in Cell Biology</i> , 2021, 73, 117-123.	5.6	16
62	Cellular dynamics underlying regeneration of appropriate segment number during axolotl tail regeneration. <i>BMC Developmental Biology</i> , 2015, 15, 48.	2.1	15
63	Spontaneous symmetry breaking and pattern formation of organoids. <i>Current Opinion in Systems Biology</i> , 2018, 11, 123-128.	2.7	15
64	Toward whole tissue imaging of axolotl regeneration. <i>Developmental Dynamics</i> , 2021, 250, 800-806.	1.9	12
65	Gene and transgenics nomenclature for the laboratory axolotl – <i>Ambystoma mexicanum</i> . <i>Developmental Dynamics</i> , 2021, , .	1.9	11
66	High-Efficiency Electroporation of the Spinal Cord in Larval Axolotl. <i>Methods in Molecular Biology</i> , 2015, 1290, 115-125.	0.9	11
67	Positional Memory in Vertebrate Regeneration: A Century's Insights from the Salamander Limb. <i>Cold Spring Harbor Perspectives in Biology</i> , 2022, 14, a040899.	5.6	11
68	Axolotl (<i>Ambystoma mexicanum</i>) Embryonic Transplantation Methods. <i>Cold Spring Harbor Protocols</i> , 2009, 2009, pdb.prot5265.	0.3	10
69	Canonical Wnt signaling and the regulation of divergent mesenchymal Fgf8 expression in axolotl limb development and regeneration. <i>ELife</i> , 2022, 11, .	6.1	9
70	The Axolotl's journey to the modern molecular era. <i>Current Topics in Developmental Biology</i> , 2022, 147, 631-658.	2.2	7
71	Tig1 regulates proximo-distal identity during salamander limb regeneration. <i>Nature Communications</i> , 2022, 13, 1141.	13.1	7
72	Editorial overview: Cell reprogramming, regeneration and repair. <i>Current Opinion in Genetics and Development</i> , 2016, 40, iv-vi.	3.4	4

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73	Regenerating tissues. <i>Science</i> , 2018, 360, 374-375.	12.9	4
74	The specialist in regeneration—the Axolotl—a suitable model to study bone healing?. <i>Npj Regenerative Medicine</i> , 2022, 7, .	5.4	4
75	Label-free Imaging of Tissue Architecture during Axolotl Peripheral Nerve Regeneration in Comparison to Functional Recovery. <i>Scientific Reports</i> , 2019, 9, 12641.	3.4	3
76	Inducible and Tissue-Specific Cell Labelling in <i>CreERT2</i> Transgenic <i>Xenopus</i> Lines. <i>Development Growth and Differentiation</i> , 2022, , .	1.6	3
77	A new society for regenerative biologists. <i>Development (Cambridge)</i> , 2021, 148, .	2.6	1