Elly M Tanaka

List of Publications by Year
in descending order

77 papers	7,134 citations	71102 41 h-index	64796 79 g-index
94 all docs	94 docs citations	94 times ranked	5403 citing authors

#	Article	IF	Citations
1	Positional Memory in Vertebrate Regeneration: A Century's Insights from the Salamander Limb. Cold Spring Harbor Perspectives in Biology, 2022, 14, a040899.	5.5	11
2	The Axolotl's journey to the modern molecular era. Current Topics in Developmental Biology, 2022, 147, 631-658.	2.2	7
3	Tig1 regulates proximo-distal identity during salamander limb regeneration. Nature Communications, 2022, 13, 1141.	12.8	7
4	Emergence of novel cephalopod gene regulation and expression through large-scale genome reorganization. Nature Communications, 2022, 13, 2172.	12.8	21
5	Inducible and Tissueâ€Specific Cell Labelling in <i>Creâ€ER</i> ^{<i>T2</i>} Transgenic <i>Xenopus</i> Lines. Development Growth and Differentiation, 2022, , .	1.5	3
6	Canonical Wnt signaling and the regulation of divergent mesenchymal Fgf8 expression in axolotl limb development and regeneration. ELife, 2022, 11, .	6.0	9
7	The specialist in regenerationâ€"the Axolotlâ€"a suitable model to study bone healing?. Npj Regenerative Medicine, 2022, 7, .	5.2	4
8	Toward whole tissue imaging of axolotl regeneration. Developmental Dynamics, 2021, 250, 800-806.	1.8	12
9	A new society for regenerative biologists. Development (Cambridge), 2021, 148, .	2.5	1
10	The giant axolotl genome uncovers the evolution, scaling, and transcriptional control of complex gene loci. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	66
11	Fibroblast dedifferentiation as a determinant of successful regeneration. Developmental Cell, 2021, 56, 1541-1551.e6.	7.0	68
12	Spatiotemporal control of cell cycle acceleration during axolotl spinal cord regeneration. ELife, 2021, 10, .	6.0	24
13	Gene and transgenics nomenclature for the laboratory axolotlâ€" Ambystoma mexicanum. Developmental Dynamics, 2021, , .	1.8	11
14	The cellular and signaling dynamics of salamander limb regeneration. Current Opinion in Cell Biology, 2021, 73, 117-123.	5.4	16
15	Giant lungfish genome elucidates the conquest of land by vertebrates. Nature, 2021, 590, 284-289.	27.8	132
16	A versatile depigmentation, clearing, and labeling method for exploring nervous system diversity. Science Advances, 2020, 6, eaba0365.	10.3	56
17	Introducing www.axolotl-omics.org â€" an integrated -omics data portal for the axolotl research community. Experimental Cell Research, 2020, 394, 112143.	2.6	18
18	Bile canaliculi remodeling activates <scp>YAP</scp> via the actin cytoskeleton during liver regeneration. Molecular Systems Biology, 2020, 16, e8985.	7.2	29

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19	Label-free Imaging of Tissue Architecture during Axolotl Peripheral Nerve Regeneration in Comparison to Functional Recovery. Scientific Reports, 2019, 9, 12641.	3.3	3
20	Broad applicability of a streamlined Ethyl Cinnamate-based clearing procedure. Development (Cambridge), 2019, 146, .	2.5	92
21	The <i>Prrx1</i> limb enhancer marks an adult subpopulation of injury-responsive dermal fibroblasts. Biology Open, 2019, 8, .	1.2	26
22	A Comparative Perspective on Brain Regeneration in Amphibians and Teleost Fish. Developmental Neurobiology, 2019, 79, 424-436.	3.0	30
23	The axolotl genome and the evolution of key tissue formation regulators. Nature, 2018, 554, 50-55.	27.8	463
24	Regenerating tissues. Science, 2018, 360, 374-375.	12.6	4
25	Pseudotyped baculovirus is an effective gene expression tool for studying molecular function during axolotl limb regeneration. Developmental Biology, 2018, 433, 262-275.	2.0	19
26	Application and optimization of CRISPRâ€“Cas9-mediated genome engineering in axolotl (Ambystoma) Tj ETQq0 0 0 rgBT /Overlock 10	12.0	34
27	Single-cell analysis uncovers convergence of cell identities during axolotl limb regeneration. Science, 2018, 362, .	12.6	291
28	Signaling-Dependent Control of Apical Membrane Size and Self-Renewal in Rosette-Stage Human Neuroepithelial Stem Cells. Stem Cell Reports, 2018, 10, 1751-1765.	4.8	21
29	Spontaneous symmetry breaking and pattern formation of organoids. Current Opinion in Systems Biology, 2018, 11, 123-128.	2.6	15
30	Reconstitution of a Patterned Neural Tube from Single Mouse Embryonic Stem Cells. Methods in Molecular Biology, 2017, 1597, 43-55.	0.9	16
31	Serum Proteases Potentiate BMP-Induced Cell Cycle Re-entry of Dedifferentiating Muscle Cells during Newt Limb Regeneration. Developmental Cell, 2017, 40, 608-617.e6.	7.0	33
32	Efficient gene knockin in axolotl and its use to test the role of satellite cells in limb regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12501-12506.	7.1	84
33	Salamander spinal cord regeneration: The ultimate positive control in vertebrate spinal cord regeneration. Developmental Biology, 2017, 432, 63-71.	2.0	75
34	A right-handed signalling pathway drives heart looping in vertebrates. Nature, 2017, 549, 86-90.	27.8	85
35	Accelerated cell divisions drive the outgrowth of the regenerating spinal cord in axolotls. ELife, 2016, 5, .	6.0	32
36	MARCKS-like protein is an initiating molecule in axolotl appendage regeneration. Nature, 2016, 531, 237-240.	27.8	83

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37	FGF8 and SHH substitute for anteriorâ€"posterior tissue interactions to induce limb regeneration. Nature, 2016, 533, 407-410.	27.8	130
38	Neural tube morphogenesis in synthetic 3D microenvironments. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6831-E6839.	7.1	186
39	Tissue- and time-directed electroporation of CAS9 proteinâ€"gRNA complexes in vivo yields efficient multigene knockout for studying gene function in regeneration. Npj Regenerative Medicine, 2016, 1, 16002.	5.2	29
40	Live Imaging of Axolotl Digit Regeneration Reveals Spatiotemporal Choreography of Diverse Connective Tissue Progenitor Pools. Developmental Cell, 2016, 39, 411-423.	7.0	125
41	Editorial overview: Cell reprogramming, regeneration and repair. Current Opinion in Genetics and Development, 2016, 40, iv-vi.	3.3	4
42	The Molecular and Cellular Choreography of Appendage Regeneration. Cell, 2016, 165, 1598-1608.	28.9	185
43	Cellular dynamics underlying regeneration of appropriate segment number during axolotl tail regeneration. BMC Developmental Biology, 2015, 15, 48.	2.1	15
44	High-Efficiency Electroporation of the Spinal Cord in Larval Axolotl. Methods in Molecular Biology, 2015, 1290, 115-125.	0.9	11
45	Planar cell polarity-mediated induction of neural stem cell expansion during axolotl spinal cord regeneration. ELife, 2015, 4, e10230.	6.0	78
46	CRISPR-Mediated Genomic Deletion of Sox2 in the Axolotl Shows a Requirement in Spinal Cord Neural Stem Cell Amplification during Tail Regeneration. Stem Cell Reports, 2014, 3, 444-459.	4.8	119
47	3D Reconstitution of the Patterned Neural Tube from Embryonic Stem Cells. Stem Cell Reports, 2014, 3, 987-999.	4.8	175
48	Optimized axolotl (Ambystoma mexicanum) husbandry, breeding, metamorphosis, transgenesis and tamoxifen-mediated recombination. Nature Protocols, 2014, 9, 529-540.	12.0	93
49	Mathematical Modeling of Regenerative Processes. Current Topics in Developmental Biology, 2014, 108, 283-317.	2.2	21
50	Fundamental Differences in Dedifferentiation and Stem Cell Recruitment during Skeletal Muscle Regeneration in Two Salamander Species. Cell Stem Cell, 2014, 14, 174-187.	11.1	271
51	Limb regeneration. Wiley Interdisciplinary Reviews: Developmental Biology, 2013, 2, 291-300.	5.9	94
52	Foamy virus for efficient gene transfer in regeneration studies. BMC Developmental Biology, 2013, 13, 17.	2.1	23
53	Progressive Specification Rather than Intercalation of Segments During Limb Regeneration. Science, 2013, 342, 1375-1379.	12.6	83
54	Connective tissue cells, but not muscle cells, are involved in establishing the proximo-distal outcome of limb regeneration in the axolotl. Development (Cambridge), 2013, 140, 513-518.	2.5	71

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55	Germline Transgenic Methods for Tracking Cells and Testing Gene Function during Regeneration in the Axolotl. Stem Cell Reports, 2013, 1, 90-103.	4.8	70
56	Comparative RNA-seq Analysis in the Unsequenced Axolotl: The Oncogene Burst Highlights Early Gene Expression in the Blastema. PLoS Computational Biology, 2013, 9, e1002936.	3.2	125
57	Comparative Transcriptional Profiling of the Axolotl Limb Identifies a Tripartite Regeneration-Specific Gene Program. PLoS ONE, 2013, 8, e61352.	2.5	107
58	Reconstitution of the central and peripheral nervous system during salamander tail regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2258-66.	7.1	69
59	Limb Regeneration: A New Development?. Annual Review of Cell and Developmental Biology, 2011, 27, 409-440.	9.4	142
60	The Cellular Basis for Animal Regeneration. Developmental Cell, 2011, 21, 172-185.	7.0	463
61	Gene expression profile of the regeneration epithelium during axolotl limb regeneration. Developmental Dynamics, 2011, 240, 1826-1840.	1.8	58
62	Efficient regeneration by activation of neurogenesis in homeostatically quiescent regions of the adult vertebrate brain. Development (Cambridge), 2010, 137, 4127-4134.	2.5	90
63	Cells keep a memory of their tissue origin during axolotl limb regeneration. Nature, 2009, 460, 60-65.	27.8	730
64	Axolotl (<i>Ambystoma mexicanum</i>) Embryonic Transplantation Methods. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5265.	0.3	10
65	A clonal analysis of neural progenitors during axolotl spinal cord regeneration reveals evidence for both spatially restricted and multipotent progenitors. Development (Cambridge), 2007, 134, 2083-2093.	2.5	126
66	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. Developmental Biology, 2006, 290, 386-397.	2.0	155
67	Quantitative evaluation of morpholino-mediated protein knockdown of GFP, MSX1, and PAX7 during tail regeneration inAmbystoma mexicanum. Developmental Dynamics, 2005, 232, 162-170.	1.8	41
68	Proximodistal identity during vertebrate limb regeneration is regulated by Meis homeodomain proteins. Development (Cambridge), 2005, 132, 4131-4142.	2.5	131
69	Hedgehog signaling controls dorsoventral patterning, blastema cell proliferation and cartilage induction during axolotl tail regeneration. Development (Cambridge), 2005, 132, 3243-3253.	2.5	152
70	Proximodistal patterning during limb regeneration. Developmental Biology, 2005, 279, 391-401.	2.0	127
71	From biomedicine to natural history research: EST resources for ambystomatid salamanders. BMC Genomics, 2004, 5, 54.	2.8	79
72	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. Cloning and Stem Cells, 2004, 6, 333-344.	2.6	21

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73	An Ambystoma mexicanum EST sequencing project: analysis of 17,352 expressed sequence tags from embryonic and regenerating blastema cDNA libraries. Genome Biology, 2004, 5, R67.	9.6	67
74	Ectoderm to Mesoderm Lineage Switching During Axolotl Tail Regeneration. Science, 2002, 298, 1993-1996.	12.6	227
75	In Vivo Imaging Indicates Muscle Fiber Dedifferentiation Is a Major Contributor to the Regenerating Tail Blastema. Developmental Biology, 2001, 236, 151-164.	2.0	177
76	Thrombin regulates S-phase re-entry by cultured newt myotubes. Current Biology, 1999, 9, 792-799.	3.9	129
77	Newt Myotubes Reenter the Cell Cycle by Phosphorylation of the Retinoblastoma Protein. Journal of Cell Biology, 1997, 136, 155-165.	5.2	194