Michalis Averof

List of Publications by Year
in descending order

43 papers	3,114 citations	218677 26 h-index	254184 43 g-index
55 all docs	55 docs citations	55 times ranked	2401 citing authors

#	Article	IF	Citations
1	Crustacean appendage evolution associated with changes in Hox gene expression. Nature, 1997, 388, 682-686.	27.8	319
2	Hox genes and the diversification of insect and crustacean body plans. Nature, 1995, 376, 420-423.	27.8	246
3	Evolutionary origin of insect wings from ancestral gills. Nature, 1997, 385, 627-630.	27.8	220
4	A Segmentation Clock with Two-Segment Periodicity in Insects. Science, 2012, 336, 338-341.	12.6	194
5	Ancestral role of caudal genes in axis elongation and segmentation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17711-17715.	7.1	174
6	Efficient CRISPR-mediated gene targeting and transgene replacement in the beetleTribolium castaneum. Development (Cambridge), 2015, 142, 2832-9.	2.5	141
7	The genome of the crustacean Parhyale hawaiensis, a model for animal development, regeneration, immunity and lignocellulose digestion. ELife, 2016, 5, .	6.0	130
8	Diverse Adaptations of an Ancestral Gill. Current Biology, 2002, 12, 1711-1716.	3.9	107
9	HOM/Hox genes of Artemia: implications for the origin of insect and crustacean body plans. Current Biology, 1993, 3, 73-78.	3.9	101
10	Knockdown of Parhyale Ultrabithorax recapitulates evolutionary changes in crustacean appendage morphology. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13892-13896.	7.1	100
11	A segmentation clock operating in blastoderm and germband stages of Tribolium development. Development (Cambridge), 2012, 139, 4341-4346.	2.5	100
12	Probing the evolution of appendage specialization by Hox gene misexpression in an emerging model crustacean. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13897-13902.	7.1	91
13	Functionality of the GAL4/UAS system in Tribolium requires the use of endogenous core promoters. BMC Developmental Biology, 2010, 10, 53.	2.1	90
14	A Common Cellular Basis for Muscle Regeneration in Arthropods and Vertebrates. Science, 2014, 343, 788-791.	12.6	87
15	Functional genetics for all: engineered nucleases, CRISPR and the gene editing revolution. EvoDevo, 2014, 5, 43.	3.2	85
16	Establishing genetic transformation for comparative developmental studies in the crustacean Parhyale hawaiensis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7888-7893.	7.1	83
17	The evolving role of Hox genes in arthropods. Development (Cambridge), 1994, 1994, 209-215.	2.5	76
18	Efficient Transformation of the Beetle Tribolium castaneum Using the Minos Transposable Element. Genetics, 2004, 167, 737-746.	2.9	72

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19	Evidence for Multiple Independent Origins of trans-Splicing in Metazoa. Molecular Biology and Evolution, 2010, 27, 684-693.	8.9	71
20	EGF Signaling and the Origin of Axial Polarity among the Insects. Current Biology, 2010, 20, 1042-1047.	3.9	70
21	Is it possible to reconstruct an accurate cell lineage using CRISPR recorders?. ELife, 2019, 8, .	6.0	62
22	Posterior patterning genes and the identification of a unique body region in the brine shrimp Artemia franciscana. Development (Cambridge), 2003, 130, 5915-5927.	2.5	59
23	Live imaging reveals the progenitors and cell dynamics of limb regeneration. ELife, 2016, 5, .	6.0	48
24	Tracking cell lineages in 3D by incremental deep learning. ELife, 2022, 11, .	6.0	34
25	A versatile strategy for gene trapping and trap conversion in emerging model organisms. Development (Cambridge), 2011, 138, 2625-2630.	2.5	32
26	Association of tracheal placodes with leg primordia in Drosophila and implications for the origin of insect tracheal systems. Development (Cambridge), 2006, 133, 785-790.	2.5	31
27	Knockdown of spalt function by RNAi causes de-repression of Hox genes and homeotic transformations in the crustacean Artemia franciscana. Developmental Biology, 2006, 298, 87-94.	2.0	27
28	Old questions, new models: unraveling complex organ regeneration with new experimental approaches. Current Opinion in Genetics and Development, 2016, 40, 23-31.	3.3	27
29	Arthropod evolution: Same Hox genes, different body plans. Current Biology, 1997, 7, R634-R636.	3.9	24
30	Arthropod Hox genes: insights on the evolutionary forces that shape gene functions. Current Opinion in Genetics and Development, 2002, 12, 386-392.	3.3	20
31	Distinct gene expression dynamics in developing and regenerating crustacean limbs. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	19
32	The multifaceted role of nerves in animal regeneration. Current Opinion in Genetics and Development, 2019, 57, 98-105.	3.3	18
33	Origin of the spider's head. Nature, 1998, 395, 436-437.	27.8	17
34	Analysis of the genetically tractable crustacean Parhyale hawaiensis reveals the organisation of a sensory system for low-resolution vision. BMC Biology, 2019, 17, 67.	3.8	16
35	Expression of hunchback during trunk segmentation in the branchiopod crustacean Artemia franciscana. Development Genes and Evolution, 2006, 216, 89-93.	0.9	13
36	MicroRNAs Act as Cofactors in Bicoid-Mediated Translational Repression. Current Biology, 2013, 23, 1579-1584.	3.9	13

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37	Developmental Evolution: Hox Proteins Ring the Changes. Current Biology, 2002, 12, R291-R293.	3.9	12
38	Development: A Deep Breath for Endocrine Organ Evolution. Current Biology, 2014, 24, R38-R40.	3.9	9
39	Clonal analysis by tunable CRISPR-mediated excision. Development (Cambridge), 2019, 146, .	2.5	9
40	CeLaVi: an interactive cell lineage visualization tool. Nucleic Acids Research, 2021, 49, W80-W85.	14.5	9
41	The crustacean model Parhyale hawaiensis. Current Topics in Developmental Biology, 2022, 147, 199-230.	2.2	8
42	Early asymmetries in maternal transcript distribution associated with a cortical microtubule network and a polar body in the beetle Tribolium castaneum. Developmental Dynamics, 2010, 239, 2875-2887.	1.8	7
43	Reconfiguring gene traps for new tasks using iTRAC. Fly, 2011, 5, 352-355.	1.7	3