Pedro Martinez

List of Publications by Year in Descending Order

77 papers	3,434 citations	28 h-index	58 g-index
87 ext. papers	3,959 ext. citations	5 avg, IF	4.83 L-index

#	Paper	IF	Citations
77	Articulating the "stem cell niche" paradigm through the lens of non-model aquatic invertebrates.. *BMC Biology*, **2022**, 20, 23	7.3	1
76	Studying Echinodermata Arm Explant Regeneration Using Echinaster sepositus.. *Methods in Molecular Biology*, **2022**, 2450, 263-291	1.4	
75	A pan-metazoan concept for adult stem cells: the wobbling Penrose landscape. *Biological Reviews*, **2021**, 97, 299	13.5	2
74	Acoel Single-Cell Transcriptomics: Cell Type Analysis of a Deep Branching Bilaterian. *Molecular Biology and Evolution*, **2021**, 38, 1888-1904	8.3	5
73	Characterization of Coelomic Fluid Cell Types in the Starfish Using a Flow Cytometry/Imaging Combined Approach. *Frontiers in Immunology*, **2021**, 12, 641664	8.4	4
72	Leanchoiliidae reveals the ancestral organization of the stem euarthropod brain. *Current Biology*, **2021**, 31, 4397-4404.e2	6.3	8
71	Of Circuits and Brains: The Origin and Diversification of Neural Architectures. *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	7
70	Immunostaining and In Situ Hybridization of the Developing Acoel Nervous System. *Methods in Molecular Biology*, **2020**, 2047, 59-80	1.4	1
69	Phagocytosis in cellular defense and nutrition: a food-centered approach to the evolution of macrophages. *Cell and Tissue Research*, **2019**, 377, 527-547	4.2	31
68	The digestive system of xenacoelomorphs. *Cell and Tissue Research*, **2019**, 377, 369-382	4.2	7
67	Mitigating Anticipated Effects of Systematic Errors Supports Sister-Group Relationship between Xenacoelomorpha and Ambulacraria. *Current Biology*, **2019**, 29, 1818-1826.e6	6.3	59
66	Xenacoelomorpha, a Key Group to Understand Bilaterian Evolution: Morphological and Molecular Perspectives **2019**, 287-315		2
65	A conceptual history of the "regulatory genome": From Theodor Boveri to Eric Davidson. *Marine Genomics*, **2019**, 44, 24-31	1.9	3
64	Fundamental aspects of arm repair phase in two echinoderm models. *Developmental Biology*, **2018**, 433, 297-309	3.1	14
63	MaristemStem Cells of Marine/Aquatic Invertebrates: From Basic Research to Innovative Applications. *Sustainability*, **2018**, 10, 526	3.6	6
62	Characterization of the bHLH family of transcriptional regulators in the acoel and their putative role in neurogenesis. *EvoDevo*, **2018**, 9, 8	3.2	8
61	Regeneration in Stellate Echinoderms: Crinoidea, Asteroidea and Ophiuroidea. *Results and Problems in Cell Differentiation*, **2018**, 65, 285-320	1.4	17

60	The Comparative Method in Biology and the Essentialist Trap. *Frontiers in Ecology and Evolution*, **2018**, 6,	3.7	5
59	An Emerging System to Study Photosymbiosis, Brain Regeneration, Chronobiology, and Behavior: The Marine Acoel Symsagittifera roscoffensis. *BioEssays*, **2018**, 40, e1800107	4.1	12
58	Xenacoelomorpha Survey Reveals That All 11 Animal Homeobox Gene Classes Were Present in the First Bilaterians. *Genome Biology and Evolution*, **2018**, 10, 2205-2217	3.9	14
57	An integrated view of asteroid regeneration: tissues, cells and molecules. *Cell and Tissue Research*, **2017**, 370, 13-28	4.2	16
56	Gene Expression Patterns in Brachiopod Larvae Refute the "Brachiopod-Fold" Hypothesis. *Frontiers in Cell and Developmental Biology*, **2017**, 5, 74	5.7	3
55	The study of xenacoelomorph nervous systems. Molecular and morphological perspectives. *Invertebrate Zoology*, **2017**, 14, 32-44	1.1	4
54	Origin of Metazoan Patterning Systems and the Role of ANTP-Class Homeobox Genes **2016**, 1-10		0
53	Regulatory circuit rewiring and functional divergence of the duplicate admp genes in dorsoventral axial patterning. *Developmental Biology*, **2016**, 410, 108-18	3.1	13
52	Xenacoelomorpha: a case of independent nervous system centralization?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2016**, 371, 20150039	5.8	21
51	Evolution of a pentameral body plan was not linked to translocation of anterior Hox genes: the echinoderm HOX cluster revisited. *Evolution & Development*, **2016**, 18, 137-43	2.6	19
50	The nervous system of Xenacoelomorpha: a genomic perspective. *Journal of Experimental Biology*, **2015**, 218, 618-28	3	25
49	The coelomic epithelium transcriptome from a clonal sea star, Coscinasterias muricata. *Marine Genomics*, **2015**, 24 Pt 3, 245-8	1.9	6
48	Echinodermata **2015**, 1-58		7
47	Functional brain regeneration in the acoel worm Symsagittifera roscoffensis. *Biology Open*, **2015**, 4, 1688-95	2.2	10
46	Homeobox genes expressed during echinoderm arm regeneration. *Biochemical Genetics*, **2014**, 52, 166-80	2.4	20
45	Pattern and process during sea urchin gut morphogenesis: the regulatory landscape. *Genesis*, **2014**, 52, 251-68	1.9	42
44	The Acoela: on their kind and kinships, especially with nemertodermatids and xenoturbellids (Bilateria incertae sedis). *Organisms Diversity and Evolution*, **2013**, 13, 267-286	1.7	43
43	Intact cluster and chordate-like expression of ParaHox genes in a sea star. *BMC Biology*, **2013**, 11, 68	7.3	28

42	Posterior regeneration in Isodiametra pulchra (Acoela, Acoelomorpha). *Frontiers in Zoology*, **2013**, 10, 64	2.8	11
41	Mesodermal gene expression in the acoel Isodiametra pulchra indicates a low number of mesodermal cell types and the endomesodermal origin of the gonads. *PLoS ONE*, **2013**, 8, e55499	3.7	19
40	The nervous system of Isodiametra pulchra (Acoela) with a discussion on the neuroanatomy of the Xenacoelomorpha and its evolutionary implications. *Frontiers in Zoology*, **2012**, 9, 27	2.8	41
39	The origin of patterning systems in bilateria-insights from the Hox and ParaHox genes in Acoelomorpha. *Genomics, Proteomics and Bioinformatics*, **2011**, 9, 65-76	6.5	8
38	Acetylcholinesterase activity in the developing and regenerating nervous system of the acoel Symsagittifera roscoffensis. *Acta Zoologica*, **2011**, 92, 383-392	0.8	14
37	Homeobox gene expression in Brachiopoda: the role of Not and Cdx in bodyplan patterning, neurogenesis, and germ layer specification. *Gene Expression Patterns*, **2011**, 11, 427-36	1.5	17
36	Molecular architecture of muscles in an acoel and its evolutionary implications. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2011**, 316, 427-39	1.8	13
35	Steps towards a centralized nervous system in basal bilaterians: insights from neurogenesis of the acoel Symsagittifera roscoffensis. *Development Growth and Differentiation*, **2010**, 52, 701-13	3	44
34	Origin of Bilaterian Hox Patterning System **2010**,		2
33	Structure of the central nervous system of a juvenile acoel, Symsagittifera roscoffensis. *Development Genes and Evolution*, **2010**, 220, 61-76	1.8	42
32	Inferring the ancestral function of the posterior Hox gene within the bilateria: controlling the maintenance of reproductive structures, the musculature and the nervous system in the acoel flatworm Isodiametra pulchra. *Evolution & Development*, **2010**, 12, 258-66	2.6	15
31	Two ParaHox genes, SpLox and SpCdx, interact to partition the posterior endoderm in the formation of a functional gut. *Development (Cambridge)*, **2009**, 136, 541-9	6.6	37
30	Tracking the origins of the bilaterian Hox patterning system: insights from the acoel flatworm Symsagittifera roscoffensis. *Evolution & Development*, **2009**, 11, 574-81	2.6	34
29	Assessing the root of bilaterian animals with scalable phylogenomic methods. *Proceedings of the Royal Society B: Biological Sciences*, **2009**, 276, 4261-70	4.4	564
28	Back in time: a new systematic proposal for the Bilateria. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2008**, 363, 1481-91	5.8	58
27	Acute lung injury associated with docetaxel and bevacizumab. *Clinical Oncology*, **2007**, 19, 803-5	2.8	10
26	Phylogenetic distribution of microRNAs supports the basal position of acoel flatworms and the polyphyly of Platyhelminthes. *Evolution & Development*, **2007**, 9, 409-15	2.6	76
25	Acoel flatworms are not platyhelminthes: evidence from phylogenomics. *PLoS ONE*, **2007**, 2, e717	3.7	104

24	Unusual gene order and organization of the sea urchin hox cluster. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2006**, 306, 45-58	1.8	112
23	The genome of the sea urchin Strongylocentrotus purpuratus. *Science*, **2006**, 314, 941-52	33.3	886
22	Genetic organization and embryonic expression of the ParaHox genes in the sea urchin S. purpuratus: insights into the relationship between clustering and colinearity. *Developmental Biology*, **2006**, 300, 63-73	3.1	53
21	Marine systems: moving into the genomics era. *Marine Ecology*, **2005**, 26, 3-16	1.4	10
20	Patterns of gene expression: homology or homocracy?. *Development Genes and Evolution*, **2003**, 213, 149-54	1.8	65
19	Evolution of echinoderms may not have required modification of the ancestral deuterostome HOX gene cluster: first report of PG4 and PG5 Hox orthologues in echinoderms. *Development Genes and Evolution*, **2003**, 213, 573-6	1.8	37
18	Genomics of the HOX gene cluster. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **2002**, 133, 571-80	2.3	44
17	Acetylation of steroidogenic factor 1 protein regulates its transcriptional activity and recruits the coactivator GCN5. *Journal of Biological Chemistry*, **2001**, 276, 37659-64	5.4	61
16	Funding would prevent waste of research time. *Nature*, **2000**, 408, 514	50.4	1
15	A sea urchin genome project: sequence scan, virtual map, and additional resources. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 9514-8	11.5	98
14	Organization of an echinoderm Hox gene cluster. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 1469-74	11.5	68
13	DIO-1 is a gene involved in onset of apoptosis in vitro, whose misexpression disrupts limb development. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 7992-7	11.5	52
12	Expression of the Hox gene complex in the indirect development of a sea urchin. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 13062-7	11.5	103
11	SpHmx, a sea urchin homeobox gene expressed in embryonic pigment cells. *Developmental Biology*, **1997**, 181, 213-22	3.1	35
10	Complete sequence of SpHox8 and its linkage in the single Hox gene cluster of Strongylocentrotus purpuratus. *Journal of Molecular Evolution*, **1997**, 44, 371-7	3.1	22
9	Sequence simplicity and evolution of the 3Tuntranslated region of the histone H1o gene. *Journal of Molecular Evolution*, **1996**, 43, 125-34	3.1	4
8	Cloning and analysis of the coding region of the histone H1(0)-encoding gene from rat PC12 cells. *Gene*, **1995**, 166, 313-6	3.8	5
7	Transcriptional activation of histone H1 zero during neuronal terminal differentiation. *Developmental Brain Research*, **1994**, 80, 35-44		8

6	Complexity and organization of DNA-protein interactions in the 5′ regulatory region of an endoderm-specific marker gene in the sea urchin embryo. *Mechanisms of Development*, **1994**, 47, 165-86	1.7	65
5	Differential expression and gonadal hormone regulation of histone H1(0) in the developing and adult rat brain. *Developmental Brain Research*, **1993**, 73, 63-70		16
4	Differential acetylation of core histones in rat cerebral cortex neurons during development and aging. *FEBS Journal*, **1988**, 174, 311-5		26
3	Changes in H1 complement in differentiating rat-brain cortical neurons. *FEBS Journal*, **1987**, 164, 71-6		37
2	Differential kinetics of histone H1(0) accumulation in neuronal and glial cells from rat cerebral cortex during postnatal development. *Biochemical and Biophysical Research Communications*, **1984**, 123, 697-702	3.4	38
1	Xenacoelomorpha Nervous Systems		6