Joao Pedro de Magalhaes

List of Publications by Year in Descending Order

158 papers	7,845 citations	50 h-index	85 g-index
175 ext. papers	10,404 ext. citations	8 avg, IF	6.62 L-index

#	Paper	IF	Citations
158	Sex-specific aging in animals: Perspective and future directions.. *Aging Cell*, **2022**, e13542	9.9	4
157	Machine learning-based predictions of dietary restriction associations across ageing-related genes.. *BMC Bioinformatics*, **2022**, 23, 10	3.6	0
156	Histone Variant macroH2A1.1 Enhances Nonhomologous End Joining-dependent DNA Double-strand-break Repair and Reprogramming Efficiency of Human iPSCs.. *Stem Cells*, **2022**, 40, 35-48	5.8	0
155	Trans cohort metabolic reprogramming towards glutaminolysis in long-term successfully treated HIV-infection.. *Communications Biology*, **2022**, 5, 27	6.7	3
154	m5C-Atlas: a comprehensive database for decoding and annotating the 5-methylcytosine (m5C) epitranscriptome.. *Nucleic Acids Research*, **2022**, 50, D196-D203	20.1	3
153	Every gene can (and possibly will) be associated with cancer. *Trends in Genetics*, **2021**,	8.5	5
152	Winter is coming: the future of cryopreservation. *BMC Biology*, **2021**, 19, 56	7.3	20
151	An integrative analysis of the age-associated multi-omic landscape across cancers. *Nature Communications*, **2021**, 12, 2345	17.4	9
150	ConsRM: collection and large-scale prediction of the evolutionarily conserved RNA methylation sites, with implications for the functional epitranscriptome. *Briefings in Bioinformatics*, **2021**, 22,	13.4	10
149	Attention-based multi-label neural networks for integrated prediction and interpretation of twelve widely occurring RNA modifications. *Nature Communications*, **2021**, 12, 4011	17.4	10
148	Longevity pharmacology comes of age. *Drug Discovery Today*, **2021**, 26, 1559-1562	8.8	2
147	RMDisease: a database of genetic variants that affect RNA modifications, with implications for epitranscriptome pathogenesis. *Nucleic Acids Research*, **2021**, 49, D1396-D1404	20.1	31
146	m6A-Atlas: a comprehensive knowledgebase for unraveling the N6-methyladenosine (m6A) epitranscriptome. *Nucleic Acids Research*, **2021**, 49, D134-D143	20.1	52
145	Integrative genomics of aging **2021**, 151-171		
144	The genomics of ecological flexibility, large brains, and long lives in capuchin monkeys revealed with fecalFACS. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	14
143	Ageing transcriptome meta-analysis reveals similarities and differences between key mammalian tissues. *Aging*, **2021**, 13, 3313-3341	5.6	5
142	Evolution, structure and emerging roles of C1ORF112 in DNA replication, DNA damage responses, and cancer. *Cellular and Molecular Life Sciences*, **2021**, 78, 4365-4376	10.3	3

141	Positive selection and gene duplications in tumour suppressor genes reveal clues about how cetaceans resist cancer. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20202592	4.4	9
140	Gene Size Matters: An Analysis of Gene Length in the Human Genome. *Frontiers in Genetics*, **2021**, 12, 559998	4.5	13
139	Targeting immune dysfunction in aging. *Ageing Research Reviews*, **2021**, 70, 101410	12	10
138	The hoverfly and the wasp: A critique of the hallmarks of aging as a paradigm. *Ageing Research Reviews*, **2021**, 70, 101407	12	20
137	Molecular damage in aging. *Nature Aging*, **2021**, 1, 1096-1106		3
136	The inherent challenges of classifying senescence-Response. *Science*, **2020**, 368, 595-596	33.3	3
135	m7GHub: deciphering the location, regulation and pathogenesis of internal mRNA N7-methylguanosine (m7G) sites in human. *Bioinformatics*, **2020**, 36, 3528-3536	7.2	31
134	miRNA-31 Improves Cognition and Abolishes Amyloid-Pathology by Targeting APP and BACE1 in an Animal Model of Alzheimer's Disease. *Molecular Therapy - Nucleic Acids*, **2020**, 19, 1219-1236	10.7	28
133	A method for the permeabilization of live larvae to small molecules and cryoprotectants. *Fly*, **2020**, 14, 29-33	1.3	
132	A multidimensional systems biology analysis of cellular senescence in aging and disease. *Genome Biology*, **2020**, 21, 91	18.3	49
131	Biohorology and biomarkers of aging: Current state-of-the-art, challenges and opportunities. *Ageing Research Reviews*, **2020**, 60, 101050	12	33
130	Ageing-associated changes in the expression of lncRNAs in human tissues reflect a transcriptional modulation in ageing pathways. *Mechanisms of Ageing and Development*, **2020**, 185, 111177	5.6	11
129	Using deep learning to associate human genes with age-related diseases. *Bioinformatics*, **2020**, 36, 2202-2208	7.2	3
128	Bioinformatics approaches for deciphering the epitranscriptome: Recent progress and emerging topics. *Computational and Structural Biotechnology Journal*, **2020**, 18, 1587-1604	6.8	18
127	A scan for genes associated with cancer mortality and longevity in pedigree dog breeds. *Mammalian Genome*, **2020**, 31, 215-227	3.2	6
126	SynergyAge, a curated database for synergistic and antagonistic interactions of longevity-associated genes. *Scientific Data*, **2020**, 7, 366	8.2	6
125	Vulnerability of progeroid smooth muscle cells to biomechanical forces is mediated by MMP13. *Nature Communications*, **2020**, 11, 4110	17.4	7
124	Comparing enrichment analysis and machine learning for identifying gene properties that discriminate between gene classes. *Briefings in Bioinformatics*, **2020**, 21, 803-814	13.4	3

123	RNA-Seq Signatures Normalized by mRNA Abundance Allow Absolute Deconvolution of Human Immune Cell Types. *Cell Reports*, **2019**, 26, 1627-1640.e7	10.6	238
122	To help aging populations, classify organismal senescence. *Science*, **2019**, 366, 576-578	33.3	24
121	A human tissue-specific transcriptomic analysis reveals a complex relationship between aging, cancer, and cellular senescence. *Aging Cell*, **2019**, 18, e13041	9.9	29
120	The fog of genetics: what is known, unknown and unknowable in the genetics of complex traits and diseases. *EMBO Reports*, **2019**, 20, e48054	6.5	7
119	WHISTLE: a high-accuracy map of the human N6-methyladenosine (m6A) epitranscriptome predicted using a machine learning approach. *Nucleic Acids Research*, **2019**, 47, e41	20.1	106
118	Gene co-expression analysis for functional classification and gene-disease predictions. *Briefings in Bioinformatics*, **2018**, 19, 575-592	13.4	377
117	From humans to hydra: patterns of cancer across the tree of life. *Biological Reviews*, **2018**, 93, 1715-1734	13.5	50
116	A Reassessment of Genes Modulating Aging in Mice Using Demographic Measurements of the Rate of Aging. *Genetics*, **2018**, 208, 1617-1630	4	9
115	Human Ageing Genomic Resources: new and updated databases. *Nucleic Acids Research*, **2018**, 46, D1083-D1090	20.1	128
114	A new approach for interpreting Random Forest models and its application to the biology of ageing. *Bioinformatics*, **2018**, 34, 2449-2456	7.2	31
113	Naked mole rats can undergo developmental, oncogene-induced and DNA damage-induced cellular senescence. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1801-1806	11.5	44
112	Stress, cell senescence and organismal ageing. *Mechanisms of Ageing and Development*, **2018**, 170, 2-9	5.6	152
111	Circulating MicroRNAs in Young Patients with Acute Coronary Syndrome. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	14
110	Topological Characterization of Human and Mouse mC Epitranscriptome Revealed by Bisulfite Sequencing. *International Journal of Genomics*, **2018**, 2018, 1351964	2.5	11
109	Enhancing Epitranscriptome Module Detection from mA-Seq Data Using Threshold-Based Measurement Weighting Strategy. *BioMed Research International*, **2018**, 2018, 2075173	3	6
108	Vive la radiorésistance!: converging research in radiobiology and biogerontology to enhance human radioresistance for deep space exploration and colonization. *Oncotarget*, **2018**, 9, 14692-14722	3.3	38
107	Biological Processes Modulating Longevity across Primates: A Phylogenetic Genome-Phenome Analysis. *Molecular Biology and Evolution*, **2018**, 35, 1990-2004	8.3	42
106	The effects of donor age on organ transplants: A review and implications for aging research. *Experimental Gerontology*, **2018**, 110, 230-240	4.5	34

105	Analysis of the FGF gene family provides insights into aquatic adaptation in cetaceans. *Scientific Reports*, **2017**, 7, 40233	4.9	16
104	A review of supervised machine learning applied to ageing research. *Biogerontology*, **2017**, 18, 171-188	4.5	62
103	The DrugAge database of aging-related drugs. *Aging Cell*, **2017**, 16, 594-597	9.9	71
102	A review of the biomedical innovations for healthy longevity. *Aging*, **2017**, 9, 7-25	5.6	18
101	Machine learning for predicting lifespan-extending chemical compounds. *Aging*, **2017**, 9, 1721-1737	5.6	21
100	The Business of Anti-Aging Science. *Trends in Biotechnology*, **2017**, 35, 1062-1073	15.1	80
99	Identification of polymorphisms in cancer patients that differentially affect survival with age. *Aging* , **2017**, 9, 2117-2136	5.6	6
98	Longer lifespan in male mice treated with a weakly estrogenic agonist, an antioxidant, an □glucosidase inhibitor or a Nrf2-inducer. *Aging Cell*, **2016**, 15, 872-84	9.9	176
97	Reductions in hypothalamic Gfap expression, glial cells and □tanycytes in lean and hypermetabolic Gnasxl-deficient mice. *Molecular Brain*, **2016**, 9, 39	4.5	6
96	Integrative Genomics of Aging **2016**, 263-285		5
95	A network pharmacology approach reveals new candidate caloric restriction mimetics in C. elegans. *Aging Cell*, **2016**, 15, 256-66	9.9	66
94	Fish oil supplements, longevity and aging. *Aging*, **2016**, 8, 1578-82	5.6	17
93	flowAI: automatic and interactive anomaly discerning tools for flow cytometry data. *Bioinformatics*, **2016**, 32, 2473-80	7.2	85
92	Systematic analysis of the gerontome reveals links between aging and age-related diseases. *Human Molecular Genetics*, **2016**, 25, 4804-4818	5.6	53
91	A direct communication proposal to test the Zoo Hypothesis. *Space Policy*, **2016**, 38, 22-26	1.4	5
90	Has gene duplication impacted the evolution of Eutherian longevity?. *Aging Cell*, **2016**, 15, 978-80	9.9	11
89	Predicting the Pro-Longevity or Anti-Longevity Effect of Model Organism Genes with New Hierarchical Feature Selection Methods. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2015**, 12, 262-75	3	22
88	Being cool: how body temperature influences ageing and longevity. *Biogerontology*, **2015**, 16, 383-97	4.5	64

87	The Digital Ageing Atlas: integrating the diversity of age-related changes into a unified resource. *Nucleic Acids Research*, **2015**, 43, D873-8	20.1	53
86	Insights on cryoprotectant toxicity from gene expression profiling of endothelial cells exposed to ethylene glycol. *Cryobiology*, **2015**, 71, 405-12	2.7	16
85	A comparison of human and mouse gene co-expression networks reveals conservation and divergence at the tissue, pathway and disease levels. *BMC Evolutionary Biology*, **2015**, 15, 259	3	56
84	The big, the bad and the ugly: Extreme animals as inspiration for biomedical research. *EMBO Reports*, **2015**, 16, 771-6	6.5	5
83	Transcriptome analysis in calorie-restricted rats implicates epigenetic and post-translational mechanisms in neuroprotection and aging. *Genome Biology*, **2015**, 16, 285	18.3	41
82	GeneFriends: a human RNA-seq-based gene and transcript co-expression database. *Nucleic Acids Research*, **2015**, 43, D1124-32	20.1	77
81	Insights into the evolution of longevity from the bowhead whale genome. *Cell Reports*, **2015**, 10, 112-22	10.6	203
80	Geroprotectors.org: a new, structured and curated database of current therapeutic interventions in aging and age-related disease. *Aging*, **2015**, 7, 616-28	5.6	65
79	The scientific quest for lasting youth: prospects for curing aging. *Rejuvenation Research*, **2014**, 17, 458-67	2.6	31
78	Why genes extending lifespan in model organisms have not been consistently associated with human longevity and what it means to translation research. *Cell Cycle*, **2014**, 13, 2671-3	4.7	42
77	The Naked Mole Rat Genome Resource: facilitating analyses of cancer and longevity-related adaptations. *Bioinformatics*, **2014**, 30, 3558-60	7.2	62
76	Whole transcriptome sequencing of the aging rat brain reveals dynamic RNA changes in the dark matter of the genome. *Age*, **2013**, 35, 763-76		82
75	LongevityMap: a database of human genetic variants associated with longevity. *Trends in Genetics*, **2013**, 29, 559-60	8.5	62
74	Accelerated protein evolution analysis reveals genes and pathways associated with the evolution of mammalian longevity. *Age*, **2013**, 35, 301-14		42
73	MYCN/LIN28B/Let-7/HMGA2 pathway implicated by meta-analysis of GWAS in suppression of post-natal proliferation thereby potentially contributing to aging. *Mechanisms of Ageing and Development*, **2013**, 134, 346-8	5.6	6
72	A-to-I RNA editing does not change with age in the healthy male rat brain. *Biogerontology*, **2013**, 14, 395-400	4.9	11
71	How ageing processes influence cancer. *Nature Reviews Cancer*, **2013**, 13, 357-65	31.3	199
70	A mathematical model of mortality dynamics across the lifespan combining heterogeneity and stochastic effects. *Experimental Gerontology*, **2013**, 48, 801-11	4.5	12

69	Ethical Perspectives in Biogerontology. *Ethics and Health Policy*, **2013**, 173-188		4
68	An analysis and validation pipeline for large-scale RNAi-based screens. *Scientific Reports*, **2013**, 3, 1076	4.9	5
67	Endless paces of degeneration--applying comparative genomics to study evolution's moulding of longevity. *EMBO Reports*, **2013**, 14, 661-2	6.5	9
66	Human Ageing Genomic Resources: integrated databases and tools for the biology and genetics of ageing. *Nucleic Acids Research*, **2013**, 41, D1027-33	20.1	389
65	GeneFriends: an online co-expression analysis tool to identify novel gene targets for aging and complex diseases. *BMC Genomics*, **2012**, 13, 535	4.5	52
64	Genome-environment interactions that modulate aging: powerful targets for drug discovery. *Pharmacological Reviews*, **2012**, 64, 88-101	22.5	92
63	A meta-analysis of caloric restriction gene expression profiles to infer common signatures and regulatory mechanisms. *Molecular BioSystems*, **2012**, 8, 1339-49		69
62	Genome-wide patterns of genetic distances reveal candidate Loci contributing to human population-specific traits. *Annals of Human Genetics*, **2012**, 76, 142-58	2.2	8
61	Programmatic features of aging originating in development: aging mechanisms beyond molecular damage?. *FASEB Journal*, **2012**, 26, 4821-6	0.9	76
60	The role of DNA methylation in aging, rejuvenation, and age-related disease. *Rejuvenation Research*, **2012**, 15, 483-94	2.6	214
59	Mutational bias plays an important role in shaping longevity-related amino acid content in mammalian mtDNA-encoded proteins. *Journal of Molecular Evolution*, **2012**, 74, 332-41	3.1	12
58	Osh6 links yeast vacuolar functions to lifespan extension and TOR. *Cell Cycle*, **2012**, 11, 2419	4.7	1
57	Dissecting the gene network of dietary restriction to identify evolutionarily conserved pathways and new functional genes. *PLoS Genetics*, **2012**, 8, e1002834	6	40
56	Prediction of C. elegans longevity genes by human and worm longevity networks. *PLoS ONE*, **2012**, 7, e48282	3.7	34
55	A role for Ras signaling in modulating mammalian aging by the GH/IGF1 axis. *Aging*, **2011**, 3, 336-7	5.6	5
54	RNA sequencing reveals differential expression of mitochondrial and oxidation reduction genes in the long-lived naked mole-rat when compared to mice. *PLoS ONE*, **2011**, 6, e26729	3.7	77
53	Mitochondrially encoded methionine is inversely related to longevity in mammals. *Aging Cell*, **2011**, 10, 198-207	9.9	39
52	A review and appraisal of the DNA damage theory of ageing. *Mutation Research - Reviews in Mutation Research*, **2011**, 728, 12-22	7	141

51	Paternal genome effects on aging: evidence for a role of Rasgrf1 in longevity determination?. *Mechanisms of Ageing and Development*, **2011**, 132, 72-3	5.6	6
50	A data mining approach for classifying DNA repair genes into ageing-related or non-ageing-related. *BMC Genomics*, **2011**, 12, 27	4.5	40
49	Gathering insights on disease etiology from gene expression profiles of healthy tissues. *Bioinformatics*, **2011**, 27, 3300-5	7.2	10
48	Cell resilience in species life spans: a link to inflammation?. *Aging Cell*, **2010**, 9, 519-26	9.9	23
47	Ecological, biomedical and epidemiological approaches to understanding oxidative balance and ageing: what they can teach each other. *Functional Ecology*, **2010**, 24, 997-1006	5.6	12
46	Next-generation sequencing in aging research: emerging applications, problems, pitfalls and possible solutions. *Ageing Research Reviews*, **2010**, 9, 315-23	12	77
45	Systems biology and longevity: an emerging approach to identify innovative anti-aging targets and strategies. *Current Pharmaceutical Design*, **2010**, 16, 802-13	3.3	64
44	Age-related gene-specific changes of A-to-I mRNA editing in the human brain. *Mechanisms of Ageing and Development*, **2010**, 131, 445-7	5.6	29
43	A database of vertebrate longevity records and their relation to other life-history traits. *Journal of Evolutionary Biology*, **2009**, 22, 1770-4	2.3	325
42	The Human Ageing Genomic Resources: online databases and tools for biogerontologists. *Aging Cell*, **2009**, 8, 65-72	9.9	152
41	Meta-analysis of age-related gene expression profiles identifies common signatures of aging. *Bioinformatics*, **2009**, 25, 875-81	7.2	496
40	Ageing research in the post-genome era: new technologies for an old problem. *SEB Experimental Biology Series*, **2009**, 62, 99-115		
39	Cell divisions and mammalian aging: integrative biology insights from genes that regulate longevity. *BioEssays*, **2008**, 30, 567-78	4.1	62
38	Analyses of human-chimpanzee orthologous gene pairs to explore evolutionary hypotheses of aging. *Mechanisms of Ageing and Development*, **2007**, 128, 355-64	5.6	30
37	A proposal to sequence genomes of unique interest for research on aging. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2007**, 62, 583-4	6.4	6
36	An analysis of the relationship between metabolism, developmental schedules, and longevity using phylogenetic independent contrasts. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2007**, 62, 149-60	6.4	227
35	Cells discover fire: employing reactive oxygen species in development and consequences for aging. *Experimental Gerontology*, **2006**, 41, 1-10	4.5	82
34	Species Selection in Comparative Studies of Aging and Antiaging Research **2006**, 9-20		9

33	Open-minded scepticism: inferring the causal mechanisms of human ageing from genetic perturbations. *Ageing Research Reviews*, **2005**, 4, 1-22	12	39
32	HAGR: the Human Ageing Genomic Resources. *Nucleic Acids Research*, **2005**, 33, D537-43	20.1	109
31	Genomes optimize reproduction: aging as a consequence of the developmental program. *Physiology*, **2005**, 20, 252-9	9.8	61
30	Cognitive aging as an extension of brain development: a model linking learning, brain plasticity, and neurodegeneration. *Mechanisms of Ageing and Development*, **2005**, 126, 1026-33	5.6	35
29	Human disease-associated mitochondrial mutations fixed in nonhuman primates. *Journal of Molecular Evolution*, **2005**, 61, 491-7	3.1	19
28	The influence of genes on the aging process of mice: a statistical assessment of the genetics of aging. *Genetics*, **2005**, 169, 265-74	4	80
27	Telomeres and telomerase: a modern fountain of youth?. *Rejuvenation Research*, **2004**, 7, 126-33	2.6	21
26	Gene expression and regulation in H2O2-induced premature senescence of human foreskin fibroblasts expressing or not telomerase. *Experimental Gerontology*, **2004**, 39, 1379-89	4.5	65
25	No increase in senescence-associated beta-galactosidase activity in Werner syndrome fibroblasts after exposure to H2O2. *Annals of the New York Academy of Sciences*, **2004**, 1019, 375-8	6.5	8
24	GenAge: a genomic and proteomic network map of human ageing. *FEBS Letters*, **2004**, 571, 243-7	3.8	81
23	From cells to ageing: a review of models and mechanisms of cellular senescence and their impact on human ageing. *Experimental Cell Research*, **2004**, 300, 1-10	4.2	82
22	How bioinformatics can help reverse engineer human aging. *Ageing Research Reviews*, **2004**, 3, 125-41	12	19
21	Alice□ dilemma. *Futures*, **2004**, 36, 85-89	3.6	8
20	Is mammalian aging genetically controlled?. *Biogerontology*, **2003**, 4, 119-20	4.5	13
19	The evolution of mammalian aging. *Experimental Gerontology*, **2002**, 37, 769-75	4.5	26
18	Stress-induced premature senescence in BJ and hTERT-BJ1 human foreskin fibroblasts. *FEBS Letters*, **2002**, 523, 157-62	3.8	62
17	UVB-induced premature senescence of human diploid skin fibroblasts. *International Journal of Biochemistry and Cell Biology*, **2002**, 34, 1331-9	5.6	68
16	From the Hayflick mosaic to the mosaics of ageing. Role of stress-induced premature senescence in human ageing. *International Journal of Biochemistry and Cell Biology*, **2002**, 34, 1415-29	5.6	70

15	Subcytotoxic H2O2 stress triggers a release of transforming growth factor-beta 1, which induces biomarkers of cellular senescence of human diploid fibroblasts. *Journal of Biological Chemistry*, **2001**, 276, 2531-7	5.4	247
14	Hormesis: a quest for virtuality?. *Human and Experimental Toxicology*, **2001**, 20, 311-4; discussion 319-20	3.4	3
13	Growth kinetics rather than stress accelerate telomere shortening in cultures of human diploid fibroblasts in oxidative stress-induced premature senescence. *FEBS Letters*, **2001**, 502, 109-12	3.8	34
12	Stress-induced premature senescence as alternative toxicological method for testing the long-term effects of molecules under development in the industry. *Biogerontology*, **2000**, 1, 179-83	4.5	17
11	The biology of ageing21-47		14
10	A Human Tissue-Specific Transcriptomic Analysis Reveals that Ageing Hinders Cancer and Boosts Cellular Senescence		1
9	A Multidimensional Systems Biology Analysis of Cellular Senescence in Ageing and Disease		3
8	An Integrative Analysis of the Age-Associated Genomic, Transcriptomic and Epigenetic Landscape across Cancers		1
7	Human Ageing Genomic Resources: 2018 Update		2
6	Positive selection and gene duplications in tumour suppressor genes reveal clues about how cetaceans resist cancer		2
5	The evolution of ecological flexibility, large brains, and long lives: capuchin monkey genomics revealed with fecalFACS		2
4	The fog of genetics: Known unknowns and unknown unknowns in the genetics of complex traits and diseases		1
3	Ageing Transcriptome Meta-Analysis Reveals Similarities Between Key Mammalian Tissues		3
2	GeneFriends 2021: Updated co-expression databases and tools for human and mouse genes and transcripts		2
1	scAgeCom: a murine atlas of age-related changes in intercellular communication inferred with the package scDiffCom		1