Alessandro Cellerino

List of Publications by Year
in descending order

115 papers	7,098 citations	50170 46 h-index	64668 79 g-index
139 all docs	139 docs citations	139 times ranked	6149 citing authors

#	Article	IF	Citations
1	Resveratrol Prolongs Lifespan and Retards the Onset of Age-Related Markers in a Short-Lived Vertebrate. Current Biology, 2006, 16, 296-300.	1.8	722
2	Insights into Sex Chromosome Evolution and Aging from the Genome of a Short-Lived Fish. Cell, 2015, 163, 1527-1538.	13.5	251
3	Free Radical Scavenging and Inhibition of Nitric Oxide Synthase Potentiates the Neurotrophic Effects of Brain-Derived Neurotrophic Factor on Axotomized Retinal Ganglion CellsIn Vivo. Journal of Neuroscience, 1998, 18, 1038-1046.	1.7	240
4	Annual fishes of the genus Nothobranchius as a model system for aging research. Aging Cell, 2005, 4, 223-233.	3.0	217
5	From the bush to the bench: the annual Nothobranchius fishes as a new model system in biology. Biological Reviews, 2016, 91, 511-533.	4.7	215
6	Reduced Size of Retinal Ganglion Cell Axons and Hypomyelination in Mice Lacking Brain-Derived Neurotrophic Factor. Molecular and Cellular Neurosciences, 1997, 9, 397-408.	1.0	184
7	Molecular determinants of retinal ganglion cell development, survival, and regeneration. Progress in Retinal and Eye Research, 2003, 22, 483-543.	7.3	169
8	Temperature affects longevity and age-related locomotor and cognitive decay in the short-lived fish Nothobranchius furzeri. Aging Cell, 2006, 5, 275-278.	3.0	167
9	Large Differences in Aging Phenotype between Strains of the Short-Lived Annual Fish Nothobranchius furzeri. PLoS ONE, 2008, 3, e3866.	1.1	162
10	Longitudinal RNA-Seq Analysis of Vertebrate Aging Identifies Mitochondrial Complex I as a Small-Molecule-Sensitive Modifier of Lifespan. Cell Systems, 2016, 2, 122-132.	2.9	155
11	Brain-derived neurotrophic factor promotes the differentiation of various hippocampal nonpyramidal neurons, including Cajal-Retzius cells, in organotypic slice cultures. Journal of Neuroscience, 1996, 16, 675-687.	1.7	148
12	<scp>RNA</scp>â€seq of the aging brain in the shortâ€lived fish N.Âfurzeri â€“ conserved pathways and novel genes associated with neurogenesis. Aging Cell, 2014, 13, 965-974.	3.0	141
13	Extremely short lifespan in the annual fish Nothobranchius furzeri. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, S189-91.	1.2	137
14	The short-lived fish Nothobranchius furzeri as a new model system for aging studies. Experimental Gerontology, 2007, 42, 81-89.	1.2	134
15	Brain-derived neurotrophic factor/neurotrophin-4 receptor TrkB is localized on ganglion cells and dopaminergic amacrine cells in the vertebrate retina. Journal of Comparative Neurology, 1997, 386, 149-160.	0.9	133
16	Reduced proteasome activity in the aging brain results in ribosome stoichiometry loss and aggregation. Molecular Systems Biology, 2020, 16, e9596.	3.2	131
17	The short-lived annual fish Nothobranchius furzeri shows a typical teleost aging process reinforced by high incidence of age-dependent neoplasias. Experimental Gerontology, 2011, 46, 249-256.	1.2	123
18	The action of neurotrophins in the development and plasticity of the visual cortex. Progress in Neurobiology, 1996, 49, 53-71.	2.8	120

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19	Sex differences in face gender recognition in humans. Brain Research Bulletin, 2004, 63, 443-449.	1.4	117
20	Telomeres shorten while Tert expression increases during ageing of the short-lived fish Nothobranchius furzeri. Mechanisms of Ageing and Development, 2009, 130, 290-296.	2.2	115
21	Mitochondrial DNA copy number and function decrease with age in the shortâ€lived fish Nothobranchius furzeri. Aging Cell, 2011, 10, 824-831.	3.0	114
22	Effects of dietary restriction on mortality and ageâ€related phenotypes in the shortâ€lived fish Nothobranchius furzeri. Aging Cell, 2009, 8, 88-99.	3.0	111
23	Adult neurogenesis in the shortâ€lived teleost Nothobranchius furzeri: localization of neurogenic niches, molecular characterization and effects of aging. Aging Cell, 2012, 11, 241-251.	3.0	109
24	The Distribution of Brain-derived Neurotrophic Factor and its Receptor trkB in Parvlbumin-containing Neurons of the Rat Visual Cortex. European Journal of Neuroscience, 1996, 8, 1190-1197.	1.2	100
25	Systemic but not intraocular Epo Gene Transfer Protects the Retina from Light-and Genetic-Induced Degeneration. Molecular Therapy, 2004, 10, 855-861.	3.7	98
26	Shape analysis of female facial attractiveness. Vision Research, 2006, 46, 1282-1291.	0.7	95
27	Transcriptomic alterations during ageing reflect the shift from cancer to degenerative diseases in the elderly. Nature Communications, 2018, 9, 327.	5.8	94
28	Monoclonal antibodies to nerve growth factor affect the postnatal development of the visual system.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 684-688.	3.3	90
29	Apoptosis in the developing visual system. Cell and Tissue Research, 2000, 301, 53-69.	1.5	90
30	Brain-Derived Neurotrophic Factor Modulates the Development of the Dopaminergic Network in the Rodent Retina. Journal of Neuroscience, 1998, 18, 3351-3362.	1.7	89
31	High tandem repeat content in the genome of the short-lived annual fish Nothobranchius furzeri: a new vertebrate model for aging research. Genome Biology, 2009, 10, R16.	13.9	87
32	Parallel evolution of senescence in annual fishes in response to extrinsic mortality. BMC Evolutionary Biology, 2013, 13, 77.	3.2	86
33	Resveratrol and the Pharmacology of Aging: A New Vertebrate Model to Validate an Old Molecule. Cell Cycle, 2006, 5, 1027-1032.	1.3	79
34	MicroRNA miR-29 controls a compensatory response to limit neuronal iron accumulation during adult life and aging. BMC Biology, 2017, 15, 9.	1.7	75
35	Mapping of quantitative trait loci controlling lifespan in the shortâ€lived fish Nothobranchius furzeriâ€“ a new vertebrate model for age research. Aging Cell, 2012, 11, 252-261.	3.0	72
36	Conserved Senescence Associated Genes and Pathways in Primary Human Fibroblasts Detected by RNA-Seq. PLoS ONE, 2016, 11, e0154531.	1.1	72

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37	Male reproductive physiology as a sexually selected handicap? Erectile dysfunction is correlated with general health and health prognosis and may have evolved as a marker of poor phenotypic quality. Medical Hypotheses, 2005, 65, 179-184.	0.8	70
38	Parvalbumin immunoreactivity: A reliable marker for the effects of monocular deprivation in the rat visual cortex. Neuroscience, 1992, 51, 749-753.	1.1	67
39	Mapping Loci Associated With Tail Color and Sex Determination in the Short-Lived Fish Nothobranchius furzeri. Genetics, 2009, 183, 1385-1395.	1.2	67
40	Antibodies to nerve growth factor (NGF) prolong the sensitive period for monocular deprivation in the rat. NeuroReport, 1994, 5, 2041-2044.	0.6	65
41	Strong population genetic structuring in an annual fish, Nothobranchius furzeri, suggests multiple savannah refugia in southern Mozambique. BMC Evolutionary Biology, 2013, 13, 196.	3.2	62
42	Repeated intraspecific divergence in life span and aging of African annual fishes along an aridity gradient. Evolution; International Journal of Organic Evolution, 2017, 71, 386-402.	1.1	60
43	Age-dependent remodelling of retinal circuitry. Neurobiology of Aging, 2009, 30, 819-828.	1.5	58
44	Age-dependent increase of oxidative stress regulates microRNA-29 family preserving cardiac health. Scientific Reports, 2017, 7, 16839.	1.6	57
45	Alternative Animal Models of Aging Research. Frontiers in Molecular Biosciences, 2021, 8, 660959.	1.6	56
46	What have we learned on aging from omics studies?. Seminars in Cell and Developmental Biology, 2017, 70, 177-189.	2.3	54
47	Phylogeny, genetic variability and colour polymorphism of an emerging animal model: The short-lived annual Nothobranchius fishes from southern Mozambique. Molecular Phylogenetics and Evolution, 2011, 61, 739-749.	1.2	52
48	Cell cycle dynamics during diapause entry and exit in an annual killifish revealed by FUCCI technology. EvoDevo, 2019, 10, 29.	1.3	52
49	The strange case of East African annual fishes: aridification correlates with diversification for a savannah aquatic group?. BMC Evolutionary Biology, 2014, 14, 210.	3.2	50
50	Expression of messenger RNA coding for the nerve growth factor receptor trkA in the hippocampus of the adult rat. Neuroscience, 1996, 70, 613-616.	1.1	49
51	Age-dependent regulation of tumor-related microRNAs in the brain of the annual fish Nothobranchius furzeri. Mechanisms of Ageing and Development, 2012, 133, 226-233.	2.2	45
52	The companion dog as a unique translational model for aging. Seminars in Cell and Developmental Biology, 2017, 70, 141-153.	2.3	42
53	Excess Target-Derived Brain-Derived Neurotrophic Factor Preserves the Transient Uncrossed Retinal Projection to the Superior Colliculus. Molecular and Cellular Neurosciences, 1999, 14, 52-65.	1.0	39
54	Long-lived rodents reveal signatures of positive selection in genes associated with lifespan. PLoS Genetics, 2018, 14, e1007272.	1.5	39

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55	The Dynamics of Neuronal Death: A Time-Lapse Study in the Retina. Journal of Neuroscience, 2000, 20, RC92-RC92.	1.7	37
56	Brainâ€derived neurotrophic factor: mRNA expression and protein distribution in the brain of the teleost Nothobranchius furzeri. Journal of Comparative Neurology, 2014, 522, 1004-1030.	0.9	37
57	Amelioration of both Functional and Morphological Abnormalities in the Retina of a Mouse Model of Ocular Albinism Following AAV-Mediated Gene Transfer. Molecular Therapy, 2005, 12, 652-658.	3.7	36
58	Similarities in Gene Expression Profiles duringIn VitroAging of Primary Human Embryonic Lung and Foreskin Fibroblasts. BioMed Research International, 2015, 2015, 1-17.	0.9	36
59	The positional identity of mouse ES cell-generated neurons is affected by BMP signaling. Cellular and Molecular Life Sciences, 2013, 70, 1095-1111.	2.4	29
60	Parallel evolution of genes controlling mitonuclear balance in short-lived annual fishes. Aging Cell, 2017, 16, 488-496.	3.0	29
61	Gender Separation Increases Somatic Growth in Females but Does Not Affect Lifespan in Nothobranchius furzeri. PLoS ONE, 2010, 5, e11958.	1.1	29
62	Effects of brain-derived neurotrophic factor on the development of NADPH-diaphorase/nitric oxide synthase-positive amacrine cells in the rodent retina. European Journal of Neuroscience, 1999, 11, 2824-2834.	1.2	26
63	Transcriptome profiling of natural dichromatism in the annual fishes Nothobranchius furzeri and Nothobranchius kadleci. BMC Genomics, 2014, 15, 754.	1.2	24
64	Comparison of captive lifespan, age-associated liver neoplasias and age-dependent gene expression between two annual fish species: Nothobranchius furzeri and Nothobranchius korthause. Biogerontology, 2015, 16, 63-69.	2.0	24
65	Retinal ganglion cell loss after the period of naturally occurring cell death in bcl-2â^'/â^' mice. NeuroReport, 1999, 10, 1091-1095.	0.6	22
66	Brain-derived neurotrophic factor regulates expression of vasoactive intestinal polypeptide in retinal amacrine cells. Journal of Comparative Neurology, 2003, 467, 97-104.	0.9	22
67	Retinal ganglion cells with NADPH-diaphorase activity in the chick form a regular mosaic with a strong dorsoventral asymmetry that can be modelled by a minimal spacing rule. European Journal of Neuroscience, 2000, 12, 613-620.	1.2	21
68	Neurotrophin Trk receptors in the brain of a teleost fish, Nothobranchius furzeri. Microscopy Research and Technique, 2012, 75, 81-88.	1.2	21
69	Transition to annual life history coincides with reduction in cell cycle speed during early cleavage in three independent clades of annual killifish. EvoDevo, 2014, 5, 32.	1.3	21
70	MicroRNA 19a replacement partially rescues fin and cardiac defects in zebrafish model of Holt Oram syndrome. Scientific Reports, 2015, 5, 18240.	1.6	21
71	Nothobranchius annual killifishes. EvoDevo, 2020, 11, 25.	1.3	21
72	Exogenous Brain-Derived Neurotrophic Factor (BDNF) Reverts Phenotypic Changes in the Retinas of Transgenic Mice Lacking thebdnfGene. , 2009, 50, 1416.		18

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73	Gender Identity Rather Than Sexual Orientation Impacts on Facial Preferences. Journal of Sexual Medicine, 2014, 11, 2500-2507.	0.3	18
74	A miRNA catalogue and ncRNA annotation of the short-living fish Nothobranchius furzeri. BMC Genomics, 2017, 18, 693.	1.2	18
75	Limited scope for reproductive senescence in wild populations of a short-lived fish. Die Naturwissenschaften, 2018, 105, 68.	0.6	17
76	Olfactory phenotypic expression unveils human aging. Oncotarget, 2016, 7, 19193-19200.	0.8	16
77	The age-regulated zinc finger factor ZNF367 is a new modulator of neuroblast proliferation during embryonic neurogenesis. Scientific Reports, 2018, 8, 11836.	1.6	15
78	Aging Triggers H3K27 Trimethylation Hoarding in the Chromatin of Nothobranchius furzeri Skeletal Muscle. Cells, 2019, 8, 1169.	1.8	15
79	MiRâ€29 coordinates ageâ€dependent plasticity brakes in the adult visual cortex. EMBO Reports, 2020, 21, e50431.	2.0	15
80	Brain derived neurotrophic factor in the retina of the teleost N. furzeri. Annals of Anatomy, 2014, 196, 192-196.	1.0	14
81	Regulation of microRNA expression in the neuronal stem cell niches during aging of the short-lived annual fish Nothobranchius furzeri. Frontiers in Cellular Neuroscience, 2014, 8, 51.	1.8	14
82	Modelling the p53/p66Shc Aging Pathway in the Shortest Living Vertebrate Nothobranchius Furzeri. , 2015, 6, 95.		14
83	Ageâ€related central regulation of orexin and NPY in the shortâ€lived African killifish <scp>Nothobranchius furzeri</scp>. Journal of Comparative Neurology, 2019, 527, 1508-1526.	0.9	14
84	Pregnant Women's Preferences for Men's Faces Differ Significantly from Nonpregnant Women. Journal of Sexual Medicine, 2015, 12, 1142-1151.	0.3	13
85	Breeders Age Affects Reproductive Success in Nothobranchius furzeri. Zebrafish, 2018, 15, 546-557.	0.5	13
86	Analysis of the coding sequences of clownfish reveals molecular convergence in the evolution of lifespan. BMC Evolutionary Biology, 2019, 19, 89.	3.2	13
87	The age related markers lipofuscin and apoptosis show different genetic architecture by QTL mapping in short-lived Nothobranchius fish. Aging, 2014, 6, 468-480.	1.4	13
88	Turquoise killifish. Current Biology, 2015, 25, R741-R742.	1.8	12
89	Outgroups and Positive Selection: The Nothobranchius furzeri Case. Trends in Genetics, 2016, 32, 523-525.	2.9	12
90	Identification and Expression of Neurotrophin-6 in the Brain of Nothobranchius furzeri: One More Piece in Neurotrophin Research. Journal of Clinical Medicine, 2019, 8, 595.	1.0	12

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91	Immunolocalization of S100â€like protein in the brain of an emerging model organism: Nothobranchius furzeri. Microscopy Research and Technique, 2012, 75, 441-447.	1.2	11
92	The microRNA miR-21 Is a Mediator of FGF8 Action on Cortical COUP-TFI Translation. Stem Cell Reports, 2018, 11, 756-769.	2.3	11
93	Nerve growth factor in the adult brain of a teleostean model for aging research: Nothobranchius furzeri. Annals of Anatomy, 2014, 196, 183-191.	1.0	10
94	Neurotrophin-4 in the brain of adult Nothobranchius furzeri. Annals of Anatomy, 2016, 207, 47-54.	1.0	10
95	Neurophysiological correlates for the perception of facial sexual dimorphism. Brain Research Bulletin, 2007, 71, 515-522.	1.4	9
96	Effects of Parental Aging During Embryo Development and Adult Life: The Case ofNothobranchius furzeri. Zebrafish, 2018, 15, 112-123.	0.5	9
97	New lessons on TDPâ€43 from old N.Âfurzeri killifish. Aging Cell, 2022, 21, e13517.	3.0	7
98	Potential negative impacts and low effectiveness in the use of African annual killifish in the biocontrol of aquatic mosquito larvae in temporary water bodies. Parasites and Vectors, 2010, 3, 89.	1.0	6
99	Cloning of an olfactory sensory neuronâ€“specific protein in the land snail (Eobania vermiculata). Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S46-9.	1.2	4
100	Specific alterations of tyrosine hydroxylase immunopositive cells in the retina of NT-4 knock out mice. Vision Research, 2007, 47, 1523-1536.	0.7	4
101	Genetic and morphological studies of Nothobranchius (Cyprinodontiformes) from Malawi with description of Nothobranchius wattersi sp. nov.. Journal of Fish Biology, 2013, 82, 165-188.	0.7	4
102	Brain-Derived Neurotrophic Factor and the Developing Chick Retina. , 1995, , 133-141.		4
103	The sources of sex differences in aging in annual fishes. Journal of Animal Ecology, 2022, 91, 540-550.	1.3	4
104	ON THE POSSIBLE USE OF ANNUAL KILLIFISHES AS MODELS FOR AGING RESEARCH: A COMMENT ON HERRERA AND JAGADEESWARAN. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2005, 60, 679-679.	1.7	3
105	Facial attractiveness and species recognition: an elementary deduction?. Ethology Ecology and Evolution, 2002, 14, 227-237.	0.6	2
106	Biology of aging: New models, new methods. Seminars in Cell and Developmental Biology, 2017, 70, 98.	2.3	2
107	(Anti-)parallel evolution of lifespan. Aging, 2017, 9, 2018-2019.	1.4	2
108	Life Extension in the Short-Lived Fish Nothobranchius furzeri. , 2009, , 157-171.		1

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109	Editorial for Ã¢â‚¬Å“Regulatory RNAs in the nervous systemÃ¢â‚¬Â• Frontiers in Cellular Neuroscience, 2015, 9, 38.	1.8	1
110	Transcriptome Analysis. , 2018, , .		1
111	MiRâ€29 coordinates ageâ€dependent plasticity brakes in the adult visual cortex. EMBO Reports, 2021, 22, .	2.0	1
112	Unbiased clustering methods. , 2018, , 59-83.		0
113	Microscale transcriptome analysis. , 2018, , 141-168.		0
114	A primer on data distributions and their visualisation. , 2018, , 1-10.		0
115	Membrane lipids and maximum lifespan in clownfish. Fish Physiology and Biochemistry, 2021, , 1.	0.9	0