Jean-FranÃ§ois LemaÃ®tre

List of Publications by Year
in descending order

72 papers	2,975 citations	257450 24 h-index	189892 50 g-index
77 all docs	77 docs citations	77 times ranked	2652 citing authors

#	Article	IF	Citations
1	Senescence in natural populations of animals: Widespread evidence and its implications for bio-gerontology. Ageing Research Reviews, 2013, 12, 214-225.	10.9	548
2	Early-late life trade-offs and the evolution of ageing in the wild. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150209.	2.6	280
3	Sex differences in adult lifespan and aging rates of mortality across wild mammals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8546-8553.	7.1	170
4	Reproductive senescence: new perspectives in the wild. Biological Reviews, 2017, 92, 2182-2199.	10.4	145
5	Comparative analyses of longevity and senescence reveal variable survival benefits of living in zoos across mammals. Scientific Reports, 2016, 6, 36361.	3.3	134
6	The Williams' legacy: A critical reappraisal of his nine predictions about the evolution of senescence. Evolution; International Journal of Organic Evolution, 2017, 71, 2768-2785.	2.3	90
7	Causes and consequences of variation in offspring body mass: metaâ€analyses in birds and mammals. Biological Reviews, 2018, 93, 1-27.	10.4	88
8	Sex gap in aging and longevity: can sex chromosomes play a role?. Biology of Sex Differences, 2018, 9, 33.	4.1	82
9	Does sexual selection shape sex differences in longevity and senescence patterns across vertebrates? A review and new insights from captive ruminants. Evolution; International Journal of Organic Evolution, 2015, 69, 3123-3140.	2.3	70
10	Lack of consensus on an aging biology paradigm? A global survey reveals an agreement to disagree, and the need for an interdisciplinary framework. Mechanisms of Ageing and Development, 2020, 191, 111316.	4.6	67
11	The conundrum of human immune system â€œsenescenceâ€. Mechanisms of Ageing and Development, 2020, 192, 111357.	4.6	64
12	Comparing free-ranging and captive populations reveals intra-specific variation in aging rates in large herbivores. Experimental Gerontology, 2013, 48, 162-167.	2.8	63
13	Social cues of sperm competition influence accessory reproductive gland size in a promiscuous mammal. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1171-1176.	2.6	60
14	Early life expenditure in sexual competition is associated with increased reproductive senescence in male red deer. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140792.	2.6	56
15	The diversity of population responses to environmental change. Ecology Letters, 2019, 22, 342-353.	6.4	52
16	High Juvenile Mortality Is Associated with Sex-Specific Adult Survival and Lifespan in Wild Roe Deer. Current Biology, 2015, 25, 759-763.	3.9	46
17	An integrative view of senescence in nature. Functional Ecology, 2020, 34, 4-16.	3.6	45
18	The cost of growing large: costs of postâ€weaning growth on body mass senescence in a wild mammal. Oikos, 2017, 126, 1329-1338.	2.7	44

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19	Diversification of the eutherian placenta is associated with changes in the pace of life. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7760-7765.	7.1	41
20	Male survival patterns do not depend on male allocation to sexual competition in large herbivores. Behavioral Ecology, 2013, 24, 421-428.	2.2	38
21	Age-dependent associations between telomere length and environmental conditions in roe deer. Biology Letters, 2017, 13, 20170434.	2.3	35
22	Diverse aging rates in ectothermic tetrapods provide insights for the evolution of aging and longevity. Science, 2022, 376, 1459-1466.	12.6	34
23	Decline in telomere length with increasing age across nonhuman vertebrates: A metaâ€analysis. Molecular Ecology, 2022, 31, 5917-5932.	3.9	33
24	Do age-specific survival patterns of wild boar fit current evolutionary theories of senescence?. Evolution; International Journal of Organic Evolution, 2014, 68, 3636-3643.	2.3	32
25	Early and Adult Social Environments Shape Sex-Specific Actuarial Senescence Patterns in a Cooperative Breeder. American Naturalist, 2018, 192, 525-536.	2.1	31
26	Female reproductive senescence across mammals: A high diversity of patterns modulated by life history and mating traits. Mechanisms of Ageing and Development, 2020, 192, 111377.	4.6	31
27	The hidden ageing costs of sperm competition. Ecology Letters, 2020, 23, 1573-1588.	6.4	30
28	Variation in actuarial senescence does not reflect life span variation across mammals. PLoS Biology, 2019, 17, e3000432.	5.6	27
29	No sex differences in adult telomere length across vertebrates: a meta-analysis. Royal Society Open Science, 2020, 7, 200548.	2.4	27
30	Genital morphology linked to social status in the bank vole (Myodes glareolus). Behavioral Ecology and Sociobiology, 2012, 66, 97-105.	1.4	22
31	How do animals optimize the sizeâ€“number tradeâ€off when aging? Insights from reproductive senescence patterns in marmots. Ecology, 2015, 96, 46-53.	3.2	22
32	A test of the metabolic theory of ecology with two longevity data sets reveals no common cause of scaling in biological times. Mammal Review, 2014, 44, 204-214.	4.8	21
33	The â€˜Evo-Demoâ€™ Implications of Condition-Dependent Mortality. Trends in Ecology and Evolution, 2017, 32, 909-921.	8.7	21
34	Senescence in Mammalian Life History Traits. , 2017, , 126-155.		20
35	Performance of generation time approximations for extinction risk assessments. Journal of Applied Ecology, 2019, 56, 1436-1446.	4.0	20
36	Inbreeding avoidance behaviour of male bank voles in relation to social status. Animal Behaviour, 2012, 83, 453-457.	1.9	19

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37	Response to Packard: make sure we do not throw out the biological baby with the statistical bath water when performing allometric analyses. Biology Letters, 2015, 11, 20150144.	2.3	19
38	The influence of earlyâ€life allocation to antlers on male performance during adulthood: Evidence from contrasted populations of a large herbivore. Journal of Animal Ecology, 2018, 87, 921-932.	2.8	19
39	DNA methylation as a tool to explore ageing in wild roe deer populations. Molecular Ecology Resources, 2022, 22, 1002-1015.	4.8	19
40	Do pre- and post-copulatory sexually selected traits covary in large herbivores?. BMC Evolutionary Biology, 2014, 14, 79.	3.2	18
41	Age-specific survival in the socially monogamous alpine marmot (Marmota marmota): evidence of senescence. Journal of Mammalogy, 2016, 97, 992-1000.	1.3	18
42	Is degree of sociality associated with reproductive senescence? A comparative analysis across birds and mammals. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190744.	4.0	17
43	Polyandry Has No Detectable Mortality Cost in Female Mammals. PLoS ONE, 2013, 8, e66670.	2.5	16
44	Early and adult social environments have independent effects on individual fitness in a social vertebrate. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151167.	2.6	16
45	Thermal conditions predict intraspecific variation in senescence rate in frogs and toads. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
46	Maternal reproductive senescence shapes the fitness consequences of the parental age difference in ruffed lemurs. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181479.	2.6	14
47	Can postfertile life stages evolve as an anticancer mechanism?. PLoS Biology, 2019, 17, e3000565.	5.6	14
48	Ecoâ€evolutionary perspectives of the dynamic relationships linking senescence and cancer. Functional Ecology, 2020, 34, 141-152.	3.6	14
49	Population position along the fastâ€“slow lifeâ€history continuum predicts intraspecific variation in actuarial senescence. Journal of Animal Ecology, 2020, 89, 1069-1079.	2.8	14
50	The neutrophil to lymphocyte ratio indexes individual variation in the behavioural stress response of wild roe deer across fluctuating environmental conditions. Behavioral Ecology and Sociobiology, 2019, 73, 1.	1.4	13
51	Slow life-history strategies are associated with negligible actuarial senescence in western Palaearctic salamanders. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191498.	2.6	12
52	Evolution of large males is associated with femaleâ€skewed adult sex ratios in amniotes. Evolution; International Journal of Organic Evolution, 2021, 75, 1636-1649.	2.3	12
53	Pathogens Shape Sex Differences in Mammalian Aging. Trends in Parasitology, 2020, 36, 668-676.	3.3	10
54	Does tooth wear influence ageing? A comparative study across large herbivores. Experimental Gerontology, 2015, 71, 48-55.	2.8	9

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55	Reproductive senescence and parental effects in an indeterminate grower. Journal of Evolutionary Biology, 2020, 33, 1256-1264.	1.7	9
56	Short-term telomere dynamics is associated with glucocorticoid levels in wild populations of roe deer. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 252, 110836.	1.8	9
57	Males do not senesce faster in large herbivores with highly seasonal rut. Experimental Gerontology, 2014, 60, 167-172.	2.8	8
58	How much energetic tradeâ€offs limit selection? Insights from livestock and related laboratory model species. Evolutionary Applications, 2021, 14, 2726-2749.	3.1	8
59	High reproductive effort is associated with decreasing mortality late in life in captive ruffed lemurs. American Journal of Primatology, 2017, 79, e22677.	1.7	7
60	Assessing the Diversity of the Form of Age-Specific Changes in Adult Mortality from Captive Mammalian Populations. Diversity, 2020, 12, 354.	1.7	7
61	Sexâ€related differences in aging rate are associated with sex chromosome system in amphibians. Evolution; International Journal of Organic Evolution, 2022, 76, 346-356.	2.3	7
62	Sex chromosomes, sex ratios and sex gaps in longevity in plants. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210219.	4.0	7
63	Telomeres, the loop tying cancer to organismal lifeâ€histories. Molecular Ecology, 2022, 31, 6273-6285.	3.9	6
64	Cancer Susceptibility as a Cost of Reproduction and Contributor to Life History Evolution. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	6
65	An aging phenotype in the wild. Science, 2019, 365, 1244-1245.	12.6	4
66	Do Equids Live longer than Grazing Bovids?. Journal of Mammalian Evolution, 2020, 27, 809-816.	1.8	4
67	Old females rarely mate with old males in roe deer, Capreolus capreolus. Biological Journal of the Linnean Society, 2019, 128, 515-525.	1.6	3
68	Asynchrony of actuarial and reproductive senescence: a lesson from an indeterminate grower. Biological Journal of the Linnean Society, 2020, 131, 667-672.	1.6	3
69	Y chromosome makes fruit flies die younger. Peer Community in Evolutionary Biology, 0, , 100105.	0.0	2
70	Maternal effects shape offspring physiological condition but do not senesce in a wild mammal. Journal of Evolutionary Biology, 2021, 34, 661-670.	1.7	1
71	Trade-Offs. , 2019, , 367-367.		1
72	Senescence in the Wild: Theory and Physiology. , 2019, , .		0