Paolo Garagnani

List of Publications by Year
in descending order

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122 papers	8,403 citations	94269 37 h-index	53109 85 g-index
128 all docs	128 docs citations	128 times ranked	13061 citing authors

#	Article	IF	Citations
1	Inflammaging: a new immuneâ€“metabolic viewpoint for age-related diseases. Nature Reviews Endocrinology, 2018, 14, 576-590.	4.3	1,643
2	Inflammaging and â€˜Garb-agingâ€™. Trends in Endocrinology and Metabolism, 2017, 28, 199-212.	3.1	624
3	The Continuum of Aging and Age-Related Diseases: Common Mechanisms but Different Rates. Frontiers in Medicine, 2018, 5, 61.	1.2	589
4	Accelerated epigenetic aging in Down syndrome. Aging Cell, 2015, 14, 491-495.	3.0	446
5	Methylation of <scp>ELOVL</scp>2 gene as a new epigenetic marker of age. Aging Cell, 2012, 11, 1132-1134.	3.0	362
6	Vaccination in the elderly: The challenge of immune changes with aging. Seminars in Immunology, 2018, 40, 83-94.	2.7	286
7	Decreased epigenetic age of PBMCs from Italian semi-supercentenarians and their offspring. Aging, 2015, 7, 1159-1170.	1.4	276
8	Ageing and gut microbes: Perspectives for health maintenance and longevity. Pharmacological Research, 2013, 69, 11-20.	3.1	226
9	Immunobiography and the Heterogeneity of Immune Responses in the Elderly: A Focus on Inflammaging and Trained Immunity. Frontiers in Immunology, 2017, 8, 982.	2.2	190
10	Immune system, cell senescence, aging and longevity--inflamm-aging reappraised. Current Pharmaceutical Design, 2013, 19, 1675-9.	0.9	144
11	Genome-Wide Scan Informed by Age-Related Disease Identifies Loci for Exceptional Human Longevity. PLoS Genetics, 2015, 11, e1005728.	1.5	128
12	Small extracellular vesicles deliver miRâ€21 and miRâ€217 as proâ€senescence effectors to endothelial cells. Journal of Extracellular Vesicles, 2020, 9, 1725285.	5.5	104
13	Immune System, Cell Senescence, Aging and Longevity - Inflamm-Aging Reappraised. Current Pharmaceutical Design, 2013, 19, 1675-1679.	0.9	101
14	The Genetic Variability of APOE in Different Human Populations and Its Implications for Longevity. Genes, 2019, 10, 222.	1.0	96
15	Do people living with HIV experience greater age advancement than their HIV-negative counterparts?. Aids, 2019, 33, 259-268.	1.0	93
16	Identification of a DNA methylation signature in blood cells from persons with Down Syndrome. Aging, 2014, 7, 82-96.	1.4	92
17	From lifetime to evolution: timescales of human gut microbiota adaptation. Frontiers in Microbiology, 2014, 5, 587.	1.5	91
18	Acceleration of leukocytesâ€™ epigenetic age as an early tumor and sex-specific marker of breast and colorectal cancer. Oncotarget, 2017, 8, 23237-23245.	0.8	90

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19	N-Glycomic Changes in Serum Proteins in Type 2 Diabetes Mellitus Correlate with Complications and with Metabolic Syndrome Parameters. PLoS ONE, 2015, 10, e0119983.	1.1	81
20	The genetics of human longevity: an intricacy of genes, environment, culture and microbiome. Mechanisms of Ageing and Development, 2017, 165, 147-155.	2.2	79
21	Present and future of anti-ageing epigenetic diets. Mechanisms of Ageing and Development, 2014, 136-137, 101-115.	2.2	76
22	One-year Mediterranean diet promotes epigenetic rejuvenation with country- and sex-specific effects: a pilot study from the NU-AGE project. GeroScience, 2020, 42, 687-701.	2.1	76
23	Genetics of Human Longevity Within an Eco-Evolutionary Nature-Nurture Framework. Circulation Research, 2018, 123, 745-772.	2.0	75
24	The Impact of Caloric Restriction on the Epigenetic Signatures of Aging. International Journal of Molecular Sciences, 2019, 20, 2022.	1.8	71
25	Stochastic epigenetic mutations (DNA methylation) increase exponentially in human aging and correlate with X chromosome inactivation skewing in females. Aging, 2015, 7, 568-578.	1.4	68
26	Systemic Age-Associated DNA Hypermethylation of ELOVL2 Gene: In Vivo and In Vitro Evidences of a Cell Replication Process. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2017, 72, 1015-1023.	1.7	66
27	Centenarian lamins: rapamycin targets in longevity. Journal of Cell Science, 2013, 127, 147-57.	1.2	63
28	The epigenetic landscape of age-related diseases: the geroscience perspective. Biogerontology, 2017, 18, 549-559.	2.0	62
29	Inferring chronological age from <scp>DNA</scp> methylation patterns of human teeth. American Journal of Physical Anthropology, 2016, 159, 585-595.	2.1	60
30	Mandibuloacral dysplasia: A premature ageing disease with aspects of physiological ageing. Ageing Research Reviews, 2018, 42, 1-13.	5.0	60
31	Centenarians as super-controls to assess the biological relevance of genetic risk factors for common age-related diseases: A proof of principle on type 2 diabetes. Aging, 2013, 5, 373-385.	1.4	57
32	Age-related DNA methylation changes are sex-specific: a comprehensive assessment. Aging, 2020, 12, 24057-24080.	1.4	55
33	Towards a Liquid Self: How Time, Geography, and Life Experiences Reshape the Biological Identity. Frontiers in Immunology, 2014, 5, 153.	2.2	51
34	Plasma N-Glycome Signature of Down Syndrome. Journal of Proteome Research, 2015, 14, 4232-4245.	1.8	51
35	Accelerated bioâ€cognitive aging in Down syndrome: State of the art and possible deceleration strategies. Aging Cell, 2019, 18, e12903.	3.0	47
36	Epigenome-wide association study in hepatocellular carcinoma: Identification of stochastic epigenetic mutations through an innovative statistical approach. Oncotarget, 2017, 8, 41890-41902.	0.8	47

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37	A meta-analysis on age-associated changes in blood DNA methylation: results from an original analysis pipeline for Infinium 450k data. Aging, 2015, 7, 97-109.	1.4	46
38	The emerging role of ECM crosslinking in T cell mobility as a hallmark of immunosenescence in humans. Ageing Research Reviews, 2017, 35, 322-335.	5.0	45
39	A Meta-Analysis of Brain DNA Methylation Across Sex, Age, and Alzheimer's Disease Points for Accelerated Epigenetic Aging in Neurodegeneration. Frontiers in Aging Neuroscience, 2021, 13, 639428.	1.7	45
40	Complex interplay between neutral and adaptive evolution shaped differential genomic background and disease susceptibility along the Italian peninsula. Scientific Reports, 2016, 6, 32513.	1.6	41
41	Shelter from the cytokine storm: pitfalls and prospects in the development of SARS-CoV-2 vaccines for an elderly population. Seminars in Immunopathology, 2020, 42, 619-634.	2.8	41
42	Lamin A involvement in ageing processes. Ageing Research Reviews, 2020, 62, 101073.	5.0	41
43	25 Hydroxyvitamin D Deficiency and Its Relationship to Autoimmune Thyroid Disease in the Elderly. International Journal of Environmental Research and Public Health, 2016, 13, 850.	1.2	40
44	mtDNA mutations in human aging and longevity: Controversies and new perspectives opened by high-throughput technologies. Experimental Gerontology, 2014, 56, 234-244.	1.2	39
45	Responders and non-responders to influenza vaccination: A DNA methylation approach on blood cells. Experimental Gerontology, 2018, 105, 94-100.	1.2	39
46	Genes associated with Type 2 Diabetes and vascular complications. Aging, 2018, 10, 178-196.	1.4	37
47	Genomic stability, anti-inflammatory phenotype, and up-regulation of the RNAseH2 in cells from centenarians. Cell Death and Differentiation, 2019, 26, 1845-1858.	5.0	37
48	Whole-genome sequencing analysis of semi-supercentenarians. ELife, 2021, 10, .	2.8	37
49	The methylation of nuclear and mitochondrial DNA in ageing phenotypes and longevity. Mechanisms of Ageing and Development, 2017, 165, 156-161.	2.2	36
50	Centenarians as extreme phenotypes: An ecological perspective to get insight into the relationship between the genetics of longevity and age-associated diseases. Mechanisms of Ageing and Development, 2017, 165, 195-201.	2.2	36
51	Age-Related DNA Methylation Changes: Potential Impact on Skeletal Muscle Aging in Humans. Frontiers in Physiology, 2019, 10, 996.	1.3	35
52	The peculiar aging of human liver: A geroscience perspective within transplant context. Ageing Research Reviews, 2019, 51, 24-34.	5.0	35
53	Down syndrome, accelerated aging and immunosenescence. Seminars in Immunopathology, 2020, 42, 635-645.	2.8	35
54	A bio-cultural approach to the study of food choice: The contribution of taste genetics, population and culture. Appetite, 2017, 114, 240-247.	1.8	34

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55	Space/Population and Time/Age in DNA methylation variability in humans: a study on IGF2/H19 locus in different Italian populations and in mono- and di-zygotic twins of different age. Aging, 2012, 4, 509-520.	1.4	33
56	Suggestions from Geroscience for the Genetics of Age-Related Diseases. PLoS Genetics, 2016, 12, e1006399.	1.5	32
57	The epigenetic side of human adaptation: hypotheses, evidences and theories. Annals of Human Biology, 2015, 42, 1-9.	0.4	31
58	Epigenetic Variability across Human Populations: A Focus on DNA Methylation Profiles of theKRTCAP3,MAD1L1andBRSK2Genes. Genome Biology and Evolution, 2016, 8, 2760-2773.	1.1	31
59	HPV DNA Associates With Breast Cancer Malignancy and It Is Transferred to Breast Cancer Stromal Cells by Extracellular Vesicles. Frontiers in Oncology, 2019, 9, 860.	1.3	30
60	Dlx5andDlx6control uterine adenogenesis during post-natal maturation: possible consequences for endometriosis. Human Molecular Genetics, 2016, 25, 97-108.	1.4	29
61	The epigenetics of inflammaging: The contribution of age-related heterochromatin loss and locus-specific remodelling and the modulation by environmental stimuli. Seminars in Immunology, 2018, 40, 49-60.	2.7	29
62	DNA methylation of shelf, shore and open sea CpG positions distinguish high microsatellite instability from low or stable microsatellite status colon cancer stem cells. Epigenomics, 2019, 11, 587-604.	1.0	29
63	Genomic history of the Italian population recapitulates key evolutionary dynamics of both Continental and Southern Europeans. BMC Biology, 2020, 18, 51.	1.7	26
64	The Three Genetics (Nuclear DNA, Mitochondrial DNA, and Gut Microbiome) of Longevity in Humans Considered as Metaorganisms. BioMed Research International, 2014, 2014, 1-14.	0.9	25
65	The Contextualized Genetics of HumanÂLongevity. Journal of the American College of Cardiology, 2020, 75, 968-979.	1.2	25
66	Epigenetic DNA methylation changes in episodic and chronic migraine. Neurological Sciences, 2018, 39, 67-68.	0.9	24
67	The Human Body as a Super Network: Digital Methods to Analyze the Propagation of Aging. Frontiers in Aging Neuroscience, 2020, 12, 136.	1.7	24
68	Molecular Aging of Human Liver: An Epigenetic/Transcriptomic Signature. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2019, 74, 1-8.	1.7	23
69	Insights From Liverâ€Humanized Mice on Cholesterol Lipoprotein Metabolism and LXRâ€Agonist Pharmacodynamics in Humans. Hepatology, 2020, 72, 656-670.	3.6	23
70	Genes of Human Longevity: An Endless Quest?. Current Vascular Pharmacology, 2013, 12, 707-717.	0.8	22
71	Age-related modulation of plasmatic beta-Galactosidase activity in healthy subjects and in patients affected by T2DM. Oncotarget, 2017, 8, 93338-93348.	0.8	21
72	Stochastic neutral modelling of the Gut Microbiotaâ€™s relative species abundance from next generation sequencing data. BMC Bioinformatics, 2016, 17, 16.	1.2	19

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73	Epigenetic up-regulation of ribosome biogenesis and more aggressive phenotype triggered by the lack of the histone demethylase JHDM1B in mammary epithelial cells. Oncotarget, 2017, 8, 37091-37103.	0.8	19
74	Colorectal cancer microenvironment: among nutrition, gut microbiota, inflammation and epigenetics. Current Pharmaceutical Design, 2013, 19, 765-78.	0.9	19
75	Slug/Î²-Cateninâ€“Dependent Proinflammatory Phenotype in Hypoxic Breast Cancer Stem Cells. American Journal of Pathology, 2013, 183, 1688-1697.	1.9	18
76	Comparative analysis of molecular signatures suggests the use of gabapentin for the management of endometriosis-associated pain. Journal of Pain Research, 2018, Volume 11, 715-725.	0.8	18
77	First evidence of association between past environmental exposure to dioxin and DNA methylation of CYP1A1 and IGF2 genes in present day Vietnamese population. Environmental Pollution, 2018, 242, 976-985.	3.7	18
78	Ribosomal DNA instability: An evolutionary conserved fuel for inflammaging. Ageing Research Reviews, 2020, 58, 101018.	5.0	18
79	Isolated populations as treasure troves in genetic epidemiology: the case of the Basques. European Journal of Human Genetics, 2009, 17, 1490-1494.	1.4	17
80	High Cellular Monocyte Activation in People Living With Human Immunodeficiency Virus on Combination Antiretroviral Therapy and Lifestyle-Matched Controls Is Associated With Greater Inflammation in Cerebrospinal Fluid. Open Forum Infectious Diseases, 2017, 4, ofx108.	0.4	17
81	Physical Activity and Nutrition INfluences In ageing (PANINI): consortium mission statement. Aging Clinical and Experimental Research, 2018, 30, 685-692.	1.4	17
82	Developmental programming of adult haematopoiesis system. Ageing Research Reviews, 2019, 54, 100918.	5.0	17
83	Assessing the combined effect of extremely low-frequency magnetic field exposure and oxidative stress on LINE-1 promoter methylation in human neural cells. Radiation and Environmental Biophysics, 2017, 56, 193-200.	0.6	16
84	The role of extracellular DNA in COVID-19: Clues from inflamm-aging. Ageing Research Reviews, 2021, 66, 101234.	5.0	16
85	Impact of demography and population dynamics on the genetic architecture of human longevity. Aging, 2018, 10, 1947-1963.	1.4	16
86	The Use of Non-Variant Sites to Improve the Clinical Assessment of Whole-Genome Sequence Data. PLoS ONE, 2015, 10, e0132180.	1.1	15
87	Aberrant methylation patterns in colorectal cancer: a meta-analysis. Oncotarget, 2017, 8, 12820-12830.	0.8	15
88	Colorectal Cancer Microenvironment: Among Nutrition, Gut Microbiota, Inflammation and Epigenetics. Current Pharmaceutical Design, 2012, 19, 765-778.	0.9	15
89	Three Reportedly Unrelated Families With Liddle Syndrome Inherited From a Common Ancestor. Hypertension, 2018, 71, 273-279.	1.3	14
90	A geroscience approach for Parkinsonâ€™s disease: Conceptual framework and design of PROPAG-AGEING project. Mechanisms of Ageing and Development, 2021, 194, 111426.	2.2	14

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91	Early downregulation of hsa-miR-144-3p in serum from drug-naÃ¯ve Parkinsonâ€™s disease patients. Scientific Reports, 2022, 12, 1330.	1.6	14
92	Erythropoietin (EPO) haplotype associated with all-cause mortality in a cohort of Italian patients with Type-2 Diabetes. Scientific Reports, 2019, 9, 10395.	1.6	13
93	Simple Method for Haplotyping the Poly(TG) Repeat in Individuals Carrying the IVS8 5T Allele in the CFTR Gene. Clinical Chemistry, 2007, 53, 531-533.	1.5	12
94	Aging and Caloric Restriction Modulate the DNA Methylation Profile of the Ribosomal RNA Locus in Human and Rat Liver. Nutrients, 2020, 12, 277.	1.7	12
95	Circulating miRâ€19aâ€3p and miRâ€19bâ€3p characterize the human aging process and their isomiRs associate with healthy status at extreme ages. Aging Cell, 2021, 20, e13409.	3.0	12
96	Evaluation of Lymphocyte Response to the Induced Oxidative Stress in a Cohort of Ageing Subjects, including Semisupercentenarians and Their Offspring. Mediators of Inflammation, 2018, 2018, 1-14.	1.4	11
97	Age-Related Epigenetic Derangement upon Reprogramming and Differentiation of Cells from the Elderly. Genes, 2018, 9, 39.	1.0	11
98	Metabolite and lipoprotein profiles reveal sex-related oxidative stress imbalance in de novo drug-naive Parkinsonâ€™s disease patients. Npj Parkinson's Disease, 2022, 8, 14.	2.5	11
99	Down Syndrome, Ageing and Epigenetics. Sub-Cellular Biochemistry, 2019, 91, 161-193.	1.0	10
100	Applying hydrodynamic pressure to efficiently generate induced pluripotent stem cells via reprogramming of centenarian skin fibroblasts. PLoS ONE, 2019, 14, e0215490.	1.1	9
101	Analysis of Epigenetic Age Predictors in Pain-Related Conditions. Frontiers in Public Health, 2020, 8, 172.	1.3	8
102	DLX5/6 GABAergic Expression Affects Social Vocalization: Implications for Human Evolution. Molecular Biology and Evolution, 2021, 38, 4748-4764.	3.5	8
103	No association between frailty index and epigenetic clocks in Italian semi-supercentenarians. Mechanisms of Ageing and Development, 2021, 197, 111514.	2.2	8
104	Inferring the genetic history of lactase persistence along the Italian peninsula from a large genomic interval surrounding the <scp>LCT</scp> gene. American Journal of Physical Anthropology, 2015, 158, 708-718.	2.1	7
105	DNA Methylation Analysis of Ribosomal DNA in Adults With Down Syndrome. Frontiers in Genetics, 2022, 13, 792165.	1.1	7
106	Elevated metallothionein expression in long-lived species mediates the influence of cadmium accumulation on aging. GeroScience, 2021, 43, 1975-1993.	2.1	6
107	Association of rs3027178 polymorphism in the circadian clock gene PER1 with susceptibility to Alzheimerâ€™s disease and longevity in an Italian population. GeroScience, 2022, 44, 881-896.	2.1	6
108	Regulatory T cells from patients with end-stage organ disease can be isolated, expanded and cryopreserved according good manufacturing practice improving their function. Journal of Translational Medicine, 2019, 17, 250.	1.8	4

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109	Genetic Theories of Aging. , 2020, , 1-9.		4
110	Gut microbiota ecology: Biodiversity estimated from hybrid neutral-niche model increases with health status and aging. PLoS ONE, 2020, 15, e0237207.	1.1	4
111	Statistical strategies and stochastic predictive models for the MARK-AGE data. Mechanisms of Ageing and Development, 2015, 151, 45-53.	2.2	3
112	Ecological Sensing Through Taste and Chemosensation Mediates Inflammation: A Biological Anthropological Approach. Advances in Nutrition, 2020, 11, 1671-1685.	2.9	3
113	Genomics and epigenomics. Journal of Headache and Pain, 2015, 16, A7.	2.5	2
114	Heterogeneity of prodromal Parkinson symptoms in siblings of Parkinson disease patients. Npj Parkinson's Disease, 2021, 7, 78.	2.5	2
115	Role of Epigenetic Therapy in the Modulation of Tumor Growth and Migration in Human Castration-Resistant Prostate Cancer Cells with Neuroendocrine Differentiation. Neuroendocrinology, 2022, 112, 580-594.	1.2	2
116	Response by Giuliani et al to Letter Regarding Article, â€œGenetics of Human Longevity Within an Eco-Evolutionary Nature-Nurture Frameworkâ€• Circulation Research, 2019, 124, e2-e3.	2.0	1
117	Investigating Mitonuclear Genetic Interactions Through Machine Learning: A Case Study on Cold Adaptation Genes in Human Populations From Different European Climate Regions. Frontiers in Physiology, 2020, 11, 575968.	1.3	1
118	C5 and SRGAP3 Polymorphisms Are Linked to Paediatric Allergic Asthma in the Italian Population. Genes, 2022, 13, 214.	1.0	1
119	Tracing BehÃ§et's disease origins along the Silk Road: an anthropological evolutionary genetics perspective. Clinical and Experimental Rheumatology, 2015, 33, S60-6.	0.4	1
120	The Physical Activity and Nutritional INfluences in Ageing (PANINI) Toolkit: A Standardized Approach towards Physical Activity and Nutritional Assessment of Older Adults. Healthcare (Switzerland), 2022, 10, 1017.	1.0	1
121	Genetic Theories of Aging. , 2021, , 2025-2034.		0
122	DNA methylation correlation structure of chromosome 21 in Down syndrome.. Theoretical Biology Forum, 2021, 114, 89-113.	0.2	0