Laura C Greaves

List of Publications by Year
in descending order

55 papers	4,615 citations	159358 30 h-index	168136 53 g-index
57 all docs	57 docs citations	57 times ranked	6531 citing authors

#	Article	IF	Citations
1	Chronic inflammation induces telomere dysfunction and accelerates ageing in mice. Nature Communications, 2014, 5, 4172.	5.8	596
2	Mitochondria are required for proâ€ageing features of the senescent phenotype. EMBO Journal, 2016, 35, 724-742.	3.5	527
3	Mitochondrial DNA mutations in human colonic crypt stem cells. Journal of Clinical Investigation, 2003, 112, 1351-1360.	3.9	454
4	Lengthâ€independent telomere damage drives postâ€mitotic cardiomyocyte senescence. EMBO Journal, 2019, 38, .	3.5	307
5	Mitochondrial DNA mutations are established in human colonic stem cells, and mutated clones expand by crypt fission. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 714-719.	3.3	269
6	Mitochondrial DNA and disease. Journal of Pathology, 2012, 226, 274-286.	2.1	239
7	Mechanisms of Field Cancerization in the Human Stomach: The Expansion and Spread of Mutated Gastric Stem Cells. Gastroenterology, 2008, 134, 500-510.	0.6	222
8	Locating the stem cell niche and tracing hepatocyte lineages in human liver. Hepatology, 2009, 49, 1655-1663.	3.6	135
9	Clonal Expansion of Early to Mid-Life Mitochondrial DNA Point Mutations Drives Mitochondrial Dysfunction during Human Ageing. PLoS Genetics, 2014, 10, e1004620.	1.5	115
10	A Phenotype-Driven Approach to Generate Mouse Models with Pathogenic mtDNA Mutations Causing Mitochondrial Disease. Cell Reports, 2016, 16, 2980-2990.	2.9	102
11	The rise and rise of mitochondrial DNA mutations. Open Biology, 2020, 10, 200061.	1.5	89
12	Interactions of skin thickness and physicochemical properties of test compounds in percutaneous penetration studies. International Archives of Occupational and Environmental Health, 2006, 79, 405-413.	1.1	85
13	The ageing mitochondrial genome. Nucleic Acids Research, 2007, 35, 7399-7405.	6.5	76
14	A Methodological Approach to Tracing Cell Lineage in Human Epithelial Tissues. Stem Cells, 2009, 27, 1410-1420.	1.4	72
15	Age-associated mitochondrial DNA mutations cause metabolic remodeling that contributes to accelerated intestinal tumorigenesis. Nature Cancer, 2020, 1, 976-989.	5.7	69
16	A Bioreactor Technology for Modeling Fibrosis in Human and Rodent Precisionâ€cut Liver Slices. Hepatology, 2019, 70, 1377-1391.	3.6	66
17	Multipotent Basal Stem Cells, Maintained in Localized Proximal Niches, Support Directed Long-Ranging Epithelial Flows in Human Prostates. Cell Reports, 2017, 20, 1609-1622.	2.9	64
18	In situ lineage tracking of human prostatic epithelial stem cell fate reveals a common clonal origin for basal and luminal cells. Journal of Pathology, 2011, 225, 181-188.	2.1	62

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19	Comparison of Mitochondrial Mutation Spectra in Ageing Human Colonic Epithelium and Disease: Absence of Evidence for Purifying Selection in Somatic Mitochondrial DNA Point Mutations. PLoS Genetics, 2012, 8, e1003082.	1.5	61
20	Mitochondrial DNA Defects and Selective Extraocular Muscle Involvement in CPEO. , 2010, 51, 3340.		58
21	Mitochondrial dysfunction impairs osteogenesis, increases osteoclast activity, and accelerates age related bone loss. Scientific Reports, 2020, 10, 11643.	1.6	58
22	Ageâ€associated mitochondrial DNA mutations lead to small but significant changes in cell proliferation and apoptosis in human colonic crypts. Aging Cell, 2010, 9, 96-99.	3.0	56
23	Defects in multiple complexes of the respiratory chain are present in ageing human colonic crypts. Experimental Gerontology, 2010, 45, 573-579.	1.2	52
24	SCNT-Derived ESCs with Mismatched Mitochondria Trigger an Immune Response in Allogeneic Hosts. Cell Stem Cell, 2015, 16, 33-38.	5.2	52
25	Mitochondrial DNA Mutations and Aging. Annals of the New York Academy of Sciences, 2007, 1100, 227-240.	1.8	50
26	Somatic Mitochondrial DNA Deletions Accumulate to High Levels in Aging Human Extraocular Muscles. , 2010, 51, 3347.		48
27	Mitochondrial DNA mutations and ageing. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1015-1020.	1.1	45
28	Mitochondrial DNA changes in pedunculopontine cholinergic neurons in Parkinson disease. Annals of Neurology, 2017, 82, 1016-1021.	2.8	45
29	Clonal Expansion in the Human Gut: Mitochondrial DNA Mutations Show Us the Way. Cell Cycle, 2006, 5, 808-811.	1.3	43
30	Mitochondrial DNA mutations in human disease. IUBMB Life, 2006, 58, 143-151.	1.5	37
31	Quantification of mitochondrial DNA mutation load. Aging Cell, 2009, 8, 566-572.	3.0	36
32	The role of the mitochondrial ribosome in human disease: searching for mutations in 12S mitochondrial rRNA with high disruptive potential. Human Molecular Genetics, 2014, 23, 949-967.	1.4	35
33	Bmi1 enhances skeletal muscle regeneration through MT1-mediated oxidative stress protection in a mouse model of dystrophinopathy. Journal of Experimental Medicine, 2014, 211, 2617-2633.	4.2	34
34	Similar patterns of clonally expanded somatic mtDNA mutations in the colon of heterozygous mtDNA mutator mice and ageing humans. Mechanisms of Ageing and Development, 2014, 139, 22-30.	2.2	33
35	Detection of cytochrome c oxidase activity and mitochondrial proteins in single cells. Journal of Neuroscience Methods, 2009, 184, 310-319.	1.3	30
36	Human stem cell aging: do mitochondrial <scp>DNA</scp> mutations have a causal role?. Aging Cell, 2014, 13, 201-205.	3.0	30

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37	The presence of highly disruptive 16S rRNA mutations in clinical samples indicates a wider role for mutations of the mitochondrial ribosome in human disease. Mitochondrion, 2015, 25, 17-27.	1.6	29
38	Impact of Age-Related Mitochondrial Dysfunction and Exercise on Intestinal Microbiota Composition. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 571-578.	1.7	28
39	Differences in the accumulation of mitochondrial defects with age in mice and humans. Mechanisms of Ageing and Development, 2011, 132, 588-591.	2.2	26
40	Novel MTND1 mutations cause isolated exercise intolerance, complex I deficiency and increased assembly factor expression. Clinical Science, 2015, 128, 895-904.	1.8	21
41	Predominant Asymmetrical Stem Cell Fate Outcome Limits the Rate of Niche Succession in Human Colonic Crypts. EBioMedicine, 2018, 31, 166-173.	2.7	19
42	Roles of Mitochondrial DNA Mutations in Stem Cell Ageing. Genes, 2018, 9, 182.	1.0	19
43	Mitochondrial <scp>DNA</scp> mutations in ageing and cancer. Molecular Oncology, 2022, 16, 3276-3294.	2.1	18
44	A novel histochemistry assay to assess and quantify focal cytochrome c oxidase deficiency. Journal of Pathology, 2018, 245, 311-323.	2.1	17
45	Effects of obesity and weight loss on mitochondrial structure and function and implications for colorectal cancer risk. Proceedings of the Nutrition Society, 2019, 78, 426-437.	0.4	17
46	Aberrant mitochondrial function in ageing and cancer. Biogerontology, 2020, 21, 445-459.	2.0	17
47	Unique quadruple immunofluorescence assay demonstrates mitochondrial respiratory chain dysfunction in osteoblasts of aged and PolgAâˆ’/âˆ’ mice. Scientific Reports, 2016, 6, 31907.	1.6	13
48	Inherited pathogenic mitochondrial DNA mutations and gastrointestinal stem cell populations. Journal of Pathology, 2018, 246, 427-432.	2.1	13
49	Involving older people in the design, development, and delivery of an innovative module on aging for undergraduate students. Educational Gerontology, 2016, 42, 698-705.	0.7	8
50	Ageâ€associated mitochondrial complex I deficiency is linked to increased stem cell proliferation rates in the mouse colon. Aging Cell, 2021, 20, e13321.	3.0	8
51	Design and baseline characteristics of the Biomarkers Of Risk In Colorectal Cancer (BORICC) Follow-Up study: A 12+ years follow-up. Nutrition and Health, 2019, 25, 231-238.	0.6	2
52	Automated quantitative high-throughput multiplex immunofluorescence pipeline to evaluate OXPHOS defects in formalin-fixed human prostate tissue. Scientific Reports, 2022, 12, 6660.	1.6	2
53	Modelling mitochondrial DNA mutations in bacterial cytochrome c oxidase: Link to colon cancer?. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, E57.	3.3	1
54	Mitochondrial complex I subunit deficiency promotes pancreatic Î±-cell proliferation. Molecular Metabolism, 2022, 60, 101489.	3.0	1

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55	Bmi1 enhances skeletal muscle regeneration through MT1-mediated oxidative stress protection in a mouse model of dystrophinopathy. Journal of Cell Biology, 2014, 207, 2075OIA222.	2.3	0