# Gerardo Ferbeyre

## List of Publications by Citations



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|---|---|---|---|
| 109 papers | 6,908 citations | 41 h-index | 82 g-index |
| 125 ext. papers | 8,225 ext. citations | 9.2 avg, IF | 5.73 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 109 | Cellular Senescence: Defining a Path Forward. *Cell*, **2019**, 179, 813-827 | 56.2 | 646 |
| 108 | E1A signaling to p53 involves the p19(ARF) tumor suppressor. *Genes and Development*, **1998**, 12, 2434-42 | 12.6 | 490 |
| 107 | An E2F/miR-20a autoregulatory feedback loop. *Journal of Biological Chemistry*, **2007**, 282, 2135-43 | 5.4 | 460 |
| 106 | The DNA damage signaling pathway is a critical mediator of oncogene-induced senescence. *Genes and Development*, **2007**, 21, 43-8 | 12.6 | 322 |
| 105 | Metformin inhibits the senescence-associated secretory phenotype by interfering with IKK/NF-B activation. *Aging Cell*, **2013**, 12, 489-98 | 9.9 | 289 |
| 104 | PML is induced by oncogenic ras and promotes premature senescence. *Genes and Development*, **2000**, 14, 2015-2027 | 12.6 | 271 |
| 103 | PML is a direct p53 target that modulates p53 effector functions. *Molecular Cell*, **2004**, 13, 523-35 | 17.6 | 269 |
| 102 | Mitochondrial dysfunction contributes to oncogene-induced senescence. *Molecular and Cellular Biology*, **2009**, 29, 4495-507 | 4.8 | 262 |
| 101 | Oncogenic ras and p53 cooperate to induce cellular senescence. *Molecular and Cellular Biology*, **2002**, 22, 3497-508 | 4.8 | 251 |
| 100 | Metformin reduces endogenous reactive oxygen species and associated DNA damage. *Cancer Prevention Research*, **2012**, 5, 536-43 | 3.2 | 224 |
| 99 | DNA damage signaling and p53-dependent senescence after prolonged beta-interferon stimulation. *Molecular Biology of the Cell*, **2006**, 17, 1583-92 | 3.5 | 193 |
| 98 | ERKs in cancer: friends or foes?. *Cancer Research*, **2014**, 74, 412-9 | 10.1 | 155 |
| 97 | Schistosome satellite DNA encodes active hammerhead ribozymes. *Molecular and Cellular Biology*, **1998**, 18, 3880-8 | 4.8 | 134 |
| 96 | The senescence-associated secretory phenotype and its regulation. *Cytokine*, **2019**, 117, 15-22 | 4 | 128 |
| 95 | Tumor suppressor activity of the ERK/MAPK pathway by promoting selective protein degradation. *Genes and Development*, **2013**, 27, 900-15 | 12.6 | 128 |
| 94 | Regulation of E2Fs and senescence by PML nuclear bodies. *Genes and Development*, **2011**, 25, 41-50 | 12.6 | 117 |
| 93 | Identification of hammerhead ribozymes in all domains of life reveals novel structural variations. *PLoS Computational Biology*, **2011**, 7, e1002031 | 5 | 104 |

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| 92 | The DNA damage signaling pathway connects oncogenic stress to cellular senescence. *Cell Cycle*, **2007**, 6, 1831-6 | 4.7 | 102 |
| 91 | SOCS1 links cytokine signaling to p53 and senescence. *Molecular Cell*, **2009**, 36, 754-67 | 17.6 | 91 |
| 90 | Regulation of chronological aging in Schizosaccharomyces pombe by the protein kinases Pka1 and Sck2. *Aging Cell*, **2006**, 5, 345-57 | 9.9 | 91 |
| 89 | Human fibroblasts require the Rb family of tumor suppressors, but not p53, for PML-induced senescence. *Oncogene*, **2004**, 23, 91-9 | 9.2 | 80 |
| 88 | The hammerhead RNA domain, a model ribozyme. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1993**, 1216, 345-59 | | 76 |
| 87 | The role of Stat5 transcription factors as tumor suppressors or oncogenes. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2011**, 1815, 104-14 | 11.2 | 70 |
| 86 | The presence of the TAR RNA structure alters the programmed -1 ribosomal frameshift efficiency of the human immunodeficiency virus type 1 (HIV-1) by modifying the rate of translation initiation. *Nucleic Acids Research*, **2008**, 36, 30-40 | 20.1 | 68 |
| 85 | Hammerhead-mediated processing of satellite pDo500 family transcripts from Dolichopoda cave crickets. *Nucleic Acids Research*, **2000**, 28, 4037-43 | 20.1 | 66 |
| 84 | Pro-aging effects of glucose signaling through a G protein-coupled glucose receptor in fission yeast. *PLoS Genetics*, **2009**, 5, e1000408 | 6 | 64 |
| 83 | Histone deacetylase inhibitors globally enhance h3/h4 tail acetylation without affecting h3 lysine 56 acetylation. *Scientific Reports*, **2012**, 2, 220 | 4.9 | 59 |
| 82 | A small nucleolar RNA:ribozyme hybrid cleaves a nucleolar RNA target in vivo with near-perfect efficiency. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 6609-14 | 11.5 | 52 |
| 81 | The activity of the HIV-1 IRES is stimulated by oxidative stress and controlled by a negative regulatory element. *Nucleic Acids Research*, **2011**, 39, 902-12 | 20.1 | 51 |
| 80 | Fission yeast and other yeasts as emergent models to unravel cellular aging in eukaryotes. *Journals of Gerontology - Series A Biological Sciences and Medical Sciences*, **2010**, 65, 1-8 | 6.4 | 50 |
| 79 | RNA silencing of checkpoint regulators sensitizes p53-defective prostate cancer cells to chemotherapy while sparing normal cells. *Cancer Research*, **2005**, 65, 2872-81 | 10.1 | 49 |
| 78 | Senescence-associated ribosome biogenesis defects contributes to cell cycle arrest through the Rb pathway. *Nature Cell Biology*, **2018**, 20, 789-799 | 23.4 | 49 |
| 77 | The Role of HMGB1 in Radioresistance of Bladder Cancer. *Molecular Cancer Therapeutics*, **2016**, 15, 471-9 | 6.1 | 47 |
| 76 | PEA-15 is inhibited by adenovirus E1A and plays a role in ERK nuclear export and Ras-induced senescence. *Journal of Biological Chemistry*, **2004**, 279, 46802-9 | 5.4 | 46 |
| 75 | SOCS1, a novel interaction partner of p53 controlling oncogene-induced senescence. *Aging*, **2010**, 2, 445-52 | 5.6 | 45 |

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| 74 | SOCS1 regulates senescence and ferroptosis by modulating the expression of p53 target genes. *Aging*, **2017**, 9, 2137-2162 | 5.6 | 42 |
| 73 | SOCS1 controls liver regeneration by regulating HGF signaling in hepatocytes. *Journal of Hepatology*, **2011**, 55, 1300-8 | 13.4 | 42 |
| 72 | Translational and HIF-1Dependent Metabolic Reprogramming Underpin Metabolic Plasticity and Responses to Kinase Inhibitors and Biguanides. *Cell Metabolism*, **2018**, 28, 817-832.e8 | 24.6 | 42 |
| 71 | Structural and functional characterization of the phosphorylation-dependent interaction between PML and SUMO1. *Structure*, **2015**, 23, 126-138 | 5.2 | 41 |
| 70 | Urodele p53 tolerates amino acid changes found in p53 variants linked to human cancer. *BMC Evolutionary Biology*, **2007**, 7, 180 | 3 | 41 |
| 69 | The distribution of RNA motifs in natural sequences. *Nucleic Acids Research*, **1999**, 27, 4457-67 | 20.1 | 41 |
| 68 | ARF1 controls proliferation of breast cancer cells by regulating the retinoblastoma protein. *Oncogene*, **2011**, 30, 3846-61 | 9.2 | 40 |
| 67 | Myc down-regulation as a mechanism to activate the Rb pathway in STAT5A-induced senescence. *Journal of Biological Chemistry*, **2007**, 282, 34938-44 | 5.4 | 38 |
| 66 | A CDK4/6-Dependent Epigenetic Mechanism Protects Cancer Cells from PML-induced Senescence. *Cancer Research*, **2016**, 76, 3252-64 | 10.1 | 38 |
| 65 | STAT3 and STAT5 Activation in Solid Cancers. *Cancers*, **2019**, 11, | 6.6 | 36 |
| 64 | Cellular senescence and protein degradation: breaking down cancer. *Cell Cycle*, **2014**, 13, 1840-58 | 4.7 | 35 |
| 63 | Designing small multiple-target artificial RNAs. *Nucleic Acids Research*, **2010**, 38, e140 | 20.1 | 31 |
| 62 | NFE2L3 Controls Colon Cancer Cell Growth through Regulation of DUX4, a CDK1 Inhibitor. *Cell Reports*, **2019**, 29, 1469-1481.e9 | 10.6 | 30 |
| 61 | PML a target of translocations in APL is a regulator of cellular senescence. *Leukemia*, **2002**, 16, 1918-26 | 10.7 | 30 |
| 60 | Efficient hammerhead ribozyme and antisense RNA targeting in a slow ribosome Escherichia coli mutant. *Nature Biotechnology*, **1997**, 15, 432-5 | 44.5 | 27 |
| 59 | The 5TUTR of HIV-1 full-length mRNA and the Tat viral protein modulate the programmed -1 ribosomal frameshift that generates HIV-1 enzymes. *Rna*, **2012**, 18, 519-29 | 5.8 | 26 |
| 58 | Endogenous oxidative stress prevents telomerase-dependent immortalization of human endothelial cells. *Mechanisms of Ageing and Development*, **2010**, 131, 354-63 | 5.6 | 26 |
| 57 | Senescence gives insights into the morphogenetic evolution of anamniotes. *Biology Open*, **2017**, 6, 891-896 | 2.2 | 25 |

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| 56 | PML links aberrant cytokine signaling and oncogenic stress to cellular senescence. *Frontiers in Bioscience - Landmark*, **2009**, 14, 475-85 | 2.8 | 25 |
| 55 | Retinoblastoma-independent regulation of cell proliferation and senescence by the p53-p21 axis in lamin A /C-depleted cells. *Aging Cell*, **2011**, 10, 789-97 | 9.9 | 24 |
| 54 | Distribution of hammerhead and hammerhead-like RNA motifs through the GenBank. *Genome Research*, **2000**, 10, 1011-9 | 9.7 | 24 |
| 53 | An oligodeoxyribonucleotide that supports catalytic activity in the hammerhead ribozyme domain. *Nucleic Acids Research*, **1995**, 23, 4092-6 | 20.1 | 24 |
| 52 | Sponges against miR-19 and miR-155 reactivate the p53-Socs1 axis in hematopoietic cancers. *Cytokine*, **2016**, 82, 80-6 | 4 | 22 |
| 51 | CHES1/FOXN3 regulates cell proliferation by repressing PIM2 and protein biosynthesis. *Molecular Biology of the Cell*, **2014**, 25, 554-65 | 3.5 | 21 |
| 50 | Quantitative SUMO proteomics reveals the modulation of several PML nuclear body associated proteins and an anti-senescence function of UBC9. *Scientific Reports*, **2018**, 8, 7754 | 4.9 | 20 |
| 49 | Tumour-promoting role of SOCS1 in colorectal cancer cells. *Scientific Reports*, **2015**, 5, 14301 | 4.9 | 19 |
| 48 | Deficiency of Interleukin-15 Confers Resistance to Obesity by Diminishing Inflammation and Enhancing the Thermogenic Function of Adipose Tissues. *PLoS ONE*, **2016**, 11, e0162995 | 3.7 | 19 |
| 47 | A hammerhead ribozyme inhibits ADE1 gene expression in yeast. *Gene*, **1995**, 155, 45-50 | 3.8 | 18 |
| 46 | Ribosomal Proteins Control Tumor Suppressor Pathways in Response to Nucleolar Stress. *BioEssays* , **2019**, 41, e1800183 | 4.1 | 17 |
| 45 | Stimulation of mitotic recombination upon transcription from the yeast GAL1 promoter but not from other RNA polymerase I, II and III promoters. *Current Genetics*, **1996**, 30, 381-8 | 2.9 | 17 |
| 44 | Transcriptome analysis and tumor suppressor requirements of STAT5-induced senescence. *Annals of the New York Academy of Sciences*, **2010**, 1197, 142-51 | 6.5 | 15 |
| 43 | Circumventing senescence is associated with stem cell properties and metformin sensitivity. *Aging Cell*, **2019**, 18, e12889 | 9.9 | 15 |
| 42 | Knockdown of angiopoietin-like 2 induces clearance of vascular endothelial senescent cells by apoptosis, promotes endothelial repair and slows atherogenesis in mice. *Aging*, **2019**, 11, 3832-3850 | 5.6 | 14 |
| 41 | Phosphorylation of SOCS1 Inhibits the SOCS1-p53 Tumor Suppressor Axis. *Cancer Research*, **2019**, 79, 3306-3319 | 10.1 | 13 |
| 40 | CDK4-CDK6 inhibitors induce autophagy-mediated degradation of DNMT1 and facilitate the senescence antitumor response. *Autophagy*, **2016**, 12, 1965-1966 | 10.2 | 13 |
| 39 | Mutant lamin A links prophase to a p53 independent senescence program. *Cell Cycle*, **2015**, 14, 2408-21 | 4.7 | 13 |

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| 38 | A screen for genes involved in respiration control and longevity in Schizosaccharomyces pombe. *Annals of the New York Academy of Sciences*, **2010**, 1197, 19-27 | 6.5 | 13 |
| 37 | Permanent farnesylation of lamin A mutants linked to progeria impairs its phosphorylation at serine 22 during interphase. *Aging*, **2016**, 8, 366-81 | 5.6 | 13 |
| 36 | Complete senescence: RB and PML share the task. *Cell Cycle*, **2014**, 13, 696 | 4.7 | 12 |
| 35 | Cell cycle arrest promotes trans-hammerhead ribozyme action in yeast. *Journal of Biological Chemistry*, **1996**, 271, 19318-23 | 5.4 | 12 |
| 34 | Ribosomal protein RPL22/eL22 regulates the cell cycle by acting as an inhibitor of the CDK4-cyclin D complex. *Cell Cycle*, **2019**, 18, 759-770 | 4.7 | 11 |
| 33 | Osteoclasts protect bone blood vessels against senescence through the angiogenin/plexin-B2 axis. *Nature Communications*, **2021**, 12, 1832 | 17.4 | 11 |
| 32 | Aberrant signaling and senescence associated protein degradation. *Experimental Gerontology*, **2018** , 107, 50-54 | 4.5 | 10 |
| 31 | Regulation of cytokine-driven functional differentiation of CD8 T cells by suppressor of cytokine signaling 1 controls autoimmunity and preserves their proliferative capacity toward foreign antigens. *Journal of Immunology*, **2010**, 185, 357-66 | 5.3 | 10 |
| 30 | Does HIV tat protein also regulate genes of other viruses present in HIV infection?. *Trends in Biochemical Sciences*, **1997**, 22, 115-6 | 10.3 | 10 |
| 29 | Amber suppression in Escherichia coli by unusual mitochondria-like transfer RNAs. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 1375-80 | 11.5 | 10 |
| 28 | Structural and thermodynamic properties of DNA uncover different evolutionary histories. *Journal of Molecular Evolution*, **1995**, 40, 698-704 | 3.1 | 10 |
| 27 | STAT5A is regulated by DNA damage via the tumor suppressor p53. *Cytokine*, **2016**, 82, 70-9 | 4 | 9 |
| 26 | Expression of SOCS1 and the downstream targets of its putative tumor suppressor functions in prostate cancer. *BMC Cancer*, **2017**, 17, 157 | 4.8 | 9 |
| 25 | SOCS1 inhibits migration and invasion of prostate cancer cells, attenuates tumor growth and modulates the tumor stroma. *Prostate Cancer and Prostatic Diseases*, **2017**, 20, 36-47 | 6.2 | 9 |
| 24 | The role of cellular senescence in cardiac disease: basic biology and clinical relevance. *Nature Reviews Cardiology*, **2021**, | 14.8 | 9 |
| 23 | The virion-associated Gag-Pol is decreased in chimeric Moloney murine leukemia viruses in which the readthrough region is replaced by the frameshift region of the human immunodeficiency virus type 1. *Virology*, **2005**, 334, 342-52 | 3.6 | 8 |
| 22 | Molecular tools that block maturation of the nuclear lamin A and decelerate cancer cell migration. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 5547-5554 | 3.4 | 8 |
| 21 | Cloning and expression of hepatitis B surface antigen in the yeastKluyveromyces lactis. *Biotechnology Letters*, **1992**, 14, 83-86 | 3 | 7 |

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| 20 | New Insights into CDK Regulators: Novel Opportunities for Cancer Therapy. *Trends in Cell Biology*, **2021**, 31, 331-344 | 18.3 | 7 |
| 19 | The Inability of the Choroid to Revascularize in Oxygen-Induced Retinopathy Results from Increased p53/miR-Let-7b Activity. *American Journal of Pathology*, **2019**, 189, 2340-2356 | 5.8 | 6 |
| 18 | Senescence: A program in the road to cell elimination and cancer. *Seminars in Cancer Biology*, **2020**, | 12.7 | 6 |
| 17 | A hydride transfer complex reprograms NAD metabolism and bypasses senescence. *Molecular Cell*, **2021**, 81, 3848-3865.e19 | 17.6 | 6 |
| 16 | Cellular senescence, geroscience, cancer and beyond. *Aging*, **2018**, 10, 2233-2242 | 5.6 | 5 |
| 15 | SOCS1: phosphorylation, dimerization and tumor suppression. *Oncoscience*, **2019**, 6, 386-389 | 0.8 | 4 |
| 14 | Genome reprogramming in cells that escape from senescence. *Revista Bionatura*, **2016**, 1, 54-61 | 0.3 | 3 |
| 13 | The sequence features that define efficient and specific hAGO2-dependent miRNA silencing guides. *Nucleic Acids Research*, **2018**, 46, 8181-8196 | 20.1 | 3 |
| 12 | Bile acids in the fountain of youth. *Aging*, **2010**, 2, 383-4 | 5.6 | 2 |
| 11 | Oncogene-Induced Senescence: Role of Mitochondrial Dysfunction **2014**, 45-52 | | 1 |
| 10 | Poll-driven integrative expression vectors for yeast. *Journal of Biotechnology*, **1997**, 56, 41-7 | 3.7 | 1 |
| 9 | The race for a coronavirus vaccine. *Revista Bionatura*, **2020**, 5, 1290-1292 | 0.3 | 1 |
| 8 | Cellular senescence limits translational readthrough. *Biology Open*, **2021**, 10, | 2.2 | 1 |
| 7 | The retinoblastoma tumor suppressor limits ribosomal readthrough during oncogene induced senescence | | 1 |
| 6 | Senescence gives insights into the morphogenetic evolution of anamniotes | | 1 |
| 5 | Phenylethynylbenzyl-modified biguanides inhibit pancreatic cancer tumor growth. *Scientific Reports* , **2021**, 11, 9854 | 4.9 | 1 |
| 4 | Membrane permeabilization and perturbation induced by alkyl- biguanidium salts. *Supramolecular Chemistry*, **2019**, 31, 127-139 | 1.8 | 1 |
| 3 | Senolytics Target Senescent Cells and Improve Aging and Age-Related Diseases. *Healthy Ageing and Longevity*, **2020**, 63-84 | 0.5 | |

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| 2 | Oncogene-Induced Senescence (OIS) as a Cellular Response to Oncogenic Stresses **2010**, 63-83 | |
| 1 | Characterization of the impact of the gene and rs3809849 on asparaginase sensitivity and cellular functions.. *Pharmacogenomics*, **2022**, 23, 415-430 | 2.6 |