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**A biomarker that identifies senescent human cells in culture and in aging skin in vivo**

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|------|---|------|-----------|
| 2278 | Replicative senescence: an old lives' tale?. <b>1996</b> , 84, 497-500  |      | 392       |
| 2277 | Replicative senescence: implications for in vivo aging and tumor suppression. <b>1996</b> , 273, 63-7   |      | 479       |
| 2276 | Regulation of transcription factor activity during cellular aging. <b>1996</b> , 74, 523-34   |      | 28        |
| 2275 | Regulation of p16CDKN2 expression and its implications for cell immortalization and senescence. <b>1996</b> , 16, 859-67  |      | 626       |
| 2274 | Rat embryo fibroblasts immortalized with simian virus 40 large T antigen undergo senescence upon its inactivation. <b>1996</b> , 16, 5127-38  |      | 37        |
| 2273 | Human fibroblast commitment to a senescence-like state in response to histone deacetylase inhibitors is cell cycle dependent. <b>1996</b> , 16, 5210-8  |      | 235       |
| 2272 | Regulation of gene expression and transcription factor binding activity during cellular aging. <b>1996</b> , 5, 130-8   |      | 24        |
| 2271 | Genes transfected into embryonal carcinoma stem cells are both lost and inactivated at high frequency. <b>1996</b> , 22, 383-92   |      | 7         |
| 2270 | The helix-loop-helix protein Id-1 and a retinoblastoma protein binding mutant of SV40 T antigen synergize to reactivate DNA synthesis in senescent human fibroblasts. <b>1996</b> , 18, 161-72                    |      | 64        |
| 2269 | Human senescence. <b>1996</b> , 18, 1009-16   |      | 85        |
| 2268 | Basic Cell Culture Protocols. <b>1997</b> ,   |      | 17        |
| 2267 | Aging and regulation of apoptosis. <b>1997</b> , 35, 107-21   |      | 56        |
| 2266 | Aging and cancer: issues of basic and clinical science. <b>1997</b> , 89, 1489-97   |      | 113       |
| 2265 | Replicative senescence and cell immortality: the role of telomeres and telomerase. <b>1997</b> , 214, 99-106  |      | 143       |
| 2264 | Loss of T-antigen sequences allows SV40-transformed human cells in crisis to acquire a senescent-like phenotype. <b>1997</b> , 52, B229-34  |      | 6         |
| 2263 | Wild-type p53 triggers a rapid senescence program in human tumor cells lacking functional p53. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 9648-53 | 11.5 | 252       |
| 2262 | Aging and cancer: the double-edged sword of replicative senescence. <b>1997</b> , 45, 482-8   |      | 148       |

|      |   |          |
|------|---|----------|
| 2261 | What does cell death have to do with aging?. <b>1997</b> , 45, 1140-6   | 88       |
| 2260 | When will the biology of aging become useful? Future landmarks in biomedical gerontology. <b>1997</b> , 45, 1258-67   | 19       |
| 2259 | Reprogramming of telomerase by expression of mutant telomerase RNA template in human cells leads to altered telomeres that correlate with reduced cell viability. <b>1997</b> , 17, 6394-401              | 66       |
| 2258 | Preadipocyte function and aging: links between age-related changes in cell dynamics and altered fat tissue function. <b>1997</b> , 45, 959-67   | 82       |
| 2257 | ATM-dependent telomere loss in aging human diploid fibroblasts and DNA damage lead to the post-translational activation of p53 protein involving poly(ADP-ribose) polymerase. <b>1997</b> , 16, 6018-33   | 311      |
| 2256 | Aging of cultured human skin fibroblasts. <b>1997</b> , 75, 23-30   | 6        |
| 2255 | Bidirectional regulation of telomerase activity in a subline derived from human lung adenocarcinoma. <b>1997</b> , 237, 313-7   | 23       |
| 2254 | Efficient transfer of genes into senescent cells by adenovirus vectors via highly expressed alpha v beta 5 integrin. <b>1997</b> , 240, 88-92   | 23       |
| 2253 | Cycling Werner's syndrome fibroblasts display calcium-dependent potassium currents. <b>1997</b> , 231, 119-22   | 6        |
| 2252 | Different kinetics of senescence in human fibroblasts and peritoneal mesothelial cells. <b>1997</b> , 236, 355-8  | 49       |
| 2251 | Mechanisms of cellular senescence. <b>1997</b> , 7, 281-7   | 20       |
| 2250 | The accumulation of non-replicative, non-functional, senescent T cells with age is avoided in calorically restricted mice by an enhancement of T cell apoptosis. <b>1997</b> , 93, 25-33                  | 71       |
| 2249 | Oncogenic ras provokes premature cell senescence associated with accumulation of p53 and p16INK4a. <b>1997</b> , 88, 593-602  | 3919     |
| 2248 | Bypass of senescence after disruption of p21CIP1/WAF1 gene in normal diploid human fibroblasts. <b>1997</b> , 277, 831-4  | 706      |
| 2247 | The heterochromatin loss model of aging. <b>1997</b> , 32, 383-94   | 155      |
| 2246 | Telomerase activity: a biomarker of cell proliferation, not malignant transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 13677-82 | 11.5 192 |
| 2245 | Evidence for the inactivation of multiple replicative lifespan genes in immortal human squamous cell carcinoma keratinocytes. <b>1997</b> , 14, 1955-64   | 60       |
| 2244 | Vascular permeability factor/vascular endothelial growth factor (VPF/VEGF) delays and induces escape from senescence in human dermal microvascular endothelial cells. <b>1997</b> , 14, 2025-32           | 118      |

|      |   |      |
|------|---|------|
| 2243 | Induction of senescence in human malignant glioma cells by p16INK4A. <b>1997</b> , 15, 505-14   | 127  |
| 2242 | A fluorescent p53GFP fusion protein facilitates its detection in mammalian cells while retaining the properties of wild-type p53. <b>1997</b> , 15, 2241-7  | 16   |
| 2241 | Reexpression of the retinoblastoma protein in tumor cells induces senescence and telomerase inhibition. <b>1997</b> , 15, 2589-96   | 134  |
| 2240 | The error catastrophe theory of aging point counterpoint. <b>1997</b> , 32, 349-350   |      |
| 2239 | Gerontology and drug development: The challenge of the senescent cell. <b>1997</b> , 2, 64-71   | 3    |
| 2238 | Demonstration of cellular aging and senescence in serially passaged long-term cultures of human trabecular osteoblasts. <b>1997</b> , 7, 514-24   | 109  |
| 2237 | Efficient introduction of genes into human ovarian surface epithelium. <b>1997</b> , 33, 665-7  |      |
| 2236 | The biology of aging. <b>1997</b> , 80, 1284-1293   | 36   |
| 2235 | The alternative product from the human CDKN2A locus, p14(ARF), participates in a regulatory feedback loop with p53 and MDM2. <b>1998</b> , 17, 5001-14  | 867  |
| 2234 | Extension of life-span by introduction of telomerase into normal human cells. <b>1998</b> , 279, 349-52   | 3979 |
| 2233 | Two regions of simian virus 40 large T-antigen independently extend the life span of primary C57BL/6 mouse embryo fibroblasts and cooperate in immortalization. <b>1998</b> , 243, 303-12                     | 26   |
| 2232 | Chromosomal instability is correlated with telomere erosion and inactivation of G2 checkpoint function in human fibroblasts expressing human papillomavirus type 16 E6 oncoprotein. <b>1998</b> , 16, 1825-38 | 77   |
| 2231 | Agents that cause DNA double strand breaks lead to p16INK4a enrichment and the premature senescence of normal fibroblasts. <b>1998</b> , 16, 1113-23  | 381  |
| 2230 | Increased p16 expression with first senescence arrest in human mammary epithelial cells and extended growth capacity with p16 inactivation. <b>1998</b> , 17, 199-205   | 233  |
| 2229 | Involvement of the Ink4 proteins p16 and p15 in T-lymphocyte senescence. <b>1998</b> , 17, 595-602  | 83   |
| 2228 | Cell cycle arrest and DNA endoreduplication following p21Waf1/Cip1 expression. <b>1998</b> , 17, 1691-703   | 148  |
| 2227 | Induced p53 expression in lung cancer cell line promotes cell senescence and differentially modifies the cytotoxicity of anti-cancer drugs. <b>1998</b> , 17, 1923-30   | 93   |
| 2226 | Re-expression of endogenous p16ink4a in oral squamous cell carcinoma lines by 5-aza-2'-deoxycytidine treatment induces a senescence-like state. <b>1998</b> , 17, 3445-53                                     | 60   |

|      |   |      |
|------|---|------|
| 2225 | Stress-induced secretion of growth inhibitors: a novel tumor suppressor function of p53. <b>1998</b> , 17, 1089-96  | 130  |
| 2224 | Reciprocal relationships between the resistance to stresses and cellular aging. <b>1998</b> , 851, 450-65   | 22   |
| 2223 | Telomeres: influencing the rate of aging. <b>1998</b> , 854, 318-27   | 32   |
| 2222 | Mitogenic factors accelerate later-age diseases: insulin as a paradigm. <b>1998</b> , 102, 95-113   | 18   |
| 2221 | Markers of 'cell senescence'. <b>1998</b> , 103, 105-9  | 6    |
| 2220 | Premature induction of aging in sublethally H2O2-treated young MRC5 fibroblasts correlates with increased glutathione peroxidase levels and resistance to DNA breakage. <b>1998</b> , 105, 137-50 | 22   |
| 2219 | Markers of 'cell senescence'. <b>1998</b> , 104, 207-11   | 6    |
| 2218 | Cell-associated pentosidine as a marker of aging in human diploid cells in vitro and in vivo. <b>1998</b> , 105, 221-40   | 18   |
| 2217 | The p16INK4a/CDKN2A tumor suppressor and its relatives. <b>1998</b> , 1378, F115-77   | 359  |
| 2216 | Reconstitution of telomerase activity in normal human cells leads to elongation of telomeres and extended replicative life span. <b>1998</b> , 8, 279-82  | 838  |
| 2215 | Inhibitors of cyclin-dependent kinases induce features of replicative senescence in early passage human diploid fibroblasts. <b>1998</b> , 8, 351-4   | 243  |
| 2214 | Molecular aspects of the relationship between cancer and aging: tumor suppressor activity during cellular senescence. <b>1998</b> , 33, 81-94   | 25   |
| 2213 | The making and the breaking of senescence: changes of gene expression during cellular aging and immortalization. <b>1998</b> , 33, 291-301  | 17   |
| 2212 | Evidence for a putative telomerase repressor gene in the 3p14.2-p21.1 region. <b>1998</b> , 23, 123-33  | 51   |
| 2211 | Mapping a novel cellular-senescence gene to human chromosome 2q37 by irradiation microcell-mediated chromosome transfer. <b>1998</b> , 22, 34-45  | 23   |
| 2210 | Repression of the telomerase catalytic subunit by a gene on human chromosome 3 that induces cellular senescence. <b>1998</b> , 22, 65-72  | 54   |
| 2209 | Telomeres, the nucleolus and aging. <b>1998</b> , 10, 332-8   | 76   |
| 2208 | TRF2 protects human telomeres from end-to-end fusions. <b>1998</b> , 92, 401-13   | 1372 |

|      |  |     |
|------|--|-----|
| 2207 | Features of replicative senescence induced by direct addition of antennapedia-p16INK4A fusion protein to human diploid fibroblasts. <b>1998</b> , 427, 203-8               | 69  |
| 2206 | The genetics of cellular senescence. <b>1998</b> , 62, 1015-9  | 35  |
| 2205 | Fibroblasts cultured from distal lower extremities in patients with venous reflux display cellular characteristics of senescence. <b>1998</b> , 28, 1040-50                | 60  |
| 2204 | A hVti1 homologue: its expression depends on population doubling levels in both normal and SV40-transformed human fibroblasts. <b>1998</b> , 247, 70-4                     | 1   |
| 2203 | 2-Methoxyestradiol, an endogenous metabolite of estrogen, enhances apoptosis and beta-galactosidase expression in vascular endothelial cells. <b>1998</b> , 248, 9-12      | 64  |
| 2202 | Telomerase inhibition, telomere shortening, and senescence of cancer cells by tea catechins. <b>1998</b> , 249, 391-6  | 208 |
| 2201 | DNA topoisomerase inhibitors induce reversible senescence in normal human fibroblasts. <b>1998</b> , 253, 667-71   | 49  |
| 2200 | DBI-1, a novel gene related to the notch family, modulates mitogenic response to insulin-like growth factor 1. <b>1998</b> , 238, 359-70                                   | 10  |
| 2199 | Telomere length dynamics in telomerase-positive immortal human cell populations. <b>1998</b> , 239, 370-8  | 93  |
| 2198 | Cytochemical detection of a senescence-associated beta-galactosidase in endothelial and smooth muscle cells from human and rabbit blood vessels. <b>1998</b> , 241, 309-15 | 111 |
| 2197 | Endogenous beta-galactosidase activity in continuously nonproliferating cells. <b>1998</b> , 243, 207-11   | 66  |
| 2196 | Cellular senescence in telomerase-expressing Syrian hamster embryo cells. <b>1998</b> , 244, 33-42   | 36  |
| 2195 | SV40-Mediated immortalization. <b>1998</b> , 245, 1-7  | 110 |
| 2194 | Fibroblasts cultured from venous ulcers display cellular characteristics of senescence. <b>1998</b> , 28, 876-83   | 163 |
| 2193 | Premature senescence involving p53 and p16 is activated in response to constitutive MEK/MAPK mitogenic signaling. <b>1998</b> , 12, 3008-19                                | 698 |
| 2192 | Myc activates telomerase. <b>1998</b> , 12, 1769-74  | 484 |
| 2191 | Immunosenescence: Analysis and Genetic Modulation of Replicative Senescence in T Cells. <b>1998</b> , 1, 305-313   | 2   |
| 2190 | Senescence of human fibroblasts induced by oncogenic Raf. <b>1998</b> , 12, 2997-3007  | 616 |

|      |  |      |      |
|------|--|------|------|
| 2189 | Overcoming cellular senescence in human cancer pathogenesis. <b>1998</b> , 12, 163-74  |      | 101  |
| 2188 | Molecular Mechanisms for the Senescent Cell Cycle Arrest. <b>1998</b> , 3, 14-18   |      | 5    |
| 2187 | Telomerase and the aging cell: implications for human health. <b>1998</b> , 279, 1732-5  |      | 52   |
| 2186 | Ventricular myocytes are not terminally differentiated in the adult mammalian heart. <b>1998</b> , 83, 1-14  |      | 320  |
| 2185 | Expression profile of senescence-associated beta-galactosidase and activation of telomerase in human ovarian surface epithelial cells undergoing immortalization. <b>1998</b> , 13, 951-6                                      |      | 3    |
| 2184 | Relationship between donor age and the replicative lifespan of human cells in culture: a reevaluation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 10614-9      | 11.5 | 454  |
| 2183 | Telomerase expression in chickens: constitutive activity in somatic tissues and down-regulation in culture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 14763-8 | 11.5 | 75   |
| 2182 | Reinitiation of DNA synthesis and cell division in senescent human fibroblasts by microinjection of anti-p53 antibodies. <b>1998</b> , 18, 1611-21   |      | 137  |
| 2181 | Vitamin C inhibits p53-induced replicative senescence through suppression of ROS production and p38 MAPK activity. <b>1998</b> , 22, 651   |      | 1    |
| 2180 | The free radical theory of aging matures. <b>1998</b> , 78, 547-81   |      | 2976 |
| 2179 | Partial hepatectomy-induced polyploidy attenuates hepatocyte replication and activates cell aging events. <b>1999</b> , 276, G1260-72  |      | 83   |
| 2178 | Differential roles for cyclin-dependent kinase inhibitors p21 and p16 in the mechanisms of senescence and differentiation in human fibroblasts. <b>1999</b> , 19, 2109-17  |      | 573  |
| 2177 | Tumor suppression without differentiation or apoptosis by antisense cyclin D1 gene transfer in K1735 melanoma involves induction of p53, p21WAF1 and superoxide dismutases. <b>1999</b> , 6, 1209-15                           |      | 10   |
| 2176 | Sonic hedgehog opposes epithelial cell cycle arrest. <b>1999</b> , 147, 71-6   |      | 134  |
| 2175 | Telomerase repressor sequences on chromosome 3 and induction of permanent growth arrest in human breast cancer cells. <b>1999</b> , 91, 37-45  |      | 98   |
| 2174 | p16(INK4a) and the control of cellular proliferative life span. <b>1999</b> , 20, 921-6  |      | 85   |
| 2173 | Human endothelial cell life extension by telomerase expression. <b>1999</b> , 274, 26141-8   |      | 375  |
| 2172 | Cellular Aging / Replicative Senescence. <b>1999</b> , 35-45   |      |      |

|      |  |      |
|------|--|------|
| 2171 | Concepts of immortalization in human mammary epithelial cells. <b>2000</b> , 24, 155-72  | 1    |
| 2170 | Comparative analysis of p73 and p53 regulation and effector functions. <b>1999</b> , 147, 823-30   | 67   |
| 2169 | Ras proteins induce senescence by altering the intracellular levels of reactive oxygen species. <b>1999</b> , 274, 7936-40   | 497  |
| 2168 | Novel tumor suppressor locus in human chromosome region 3p14.2. <b>1999</b> , 91, 1563-8   | 19   |
| 2167 | The oncogene and Polycomb-group gene bmi-1 regulates cell proliferation and senescence through the ink4a locus. <b>1999</b> , 397, 164-8   | 1328 |
| 2166 | Robustness in bacterial chemotaxis. <b>1999</b> , 397, 168-71  | 906  |
| 2165 | Apoptosis: a two-edged sword in aging. <b>1999</b> , 887, 1-11   | 43   |
| 2164 | Absence of cancer-associated changes in human fibroblasts immortalized with telomerase. <b>1999</b> , 21, 115-8  | 673  |
| 2163 | TIN2, a new regulator of telomere length in human cells. <b>1999</b> , 23, 405-12  | 409  |
| 2162 | Overexpression of the p21 sdi1 gene induces senescence-like state in human cancer cells: implication for senescence-directed molecular therapy for cancer. <b>1999</b> , 6, 765-72 | 39   |
| 2161 | p21Waf1/Cip1/Sdi1 induces permanent growth arrest with markers of replicative senescence in human tumor cells lacking functional p53. <b>1999</b> , 18, 2789-97                    | 158  |
| 2160 | Induced p21waf expression in H1299 cell line promotes cell senescence and protects against cytotoxic effect of radiation and doxorubicin. <b>1999</b> , 18, 2643-9                 | 117  |
| 2159 | Role of p53 and p21waf1/cip1 in senescence-like terminal proliferation arrest induced in human tumor cells by chemotherapeutic drugs. <b>1999</b> , 18, 4808-18                    | 318  |
| 2158 | Effects on normal fibroblasts and neuroblastoma cells of the activation of the p53 response by the nuclear export inhibitor leptomycin B. <b>1999</b> , 18, 7378-86                | 73   |
| 2157 | Amplification of competitive telomere sequence in living animal cells induces chromatin instability. <b>1999</b> , 31, 195-203   | 1    |
| 2156 | Direct induction of cyclin D2 by Myc contributes to cell cycle progression and sequestration of p27. <b>1999</b> , 18, 5321-33   | 381  |
| 2155 | A combination of genetic suppressor elements produces resistance to drugs inhibiting DNA replication. <b>1999</b> , 25, 9-26   | 16   |
| 2154 | Coenzyme Q10, a cutaneous antioxidant and energizer. <b>1999</b> , 9, 371-8  | 189  |



|      |  |     |
|------|--|-----|
| 2153 | Aging and chromosomal instability. <b>1999</b> , 139, 141-74   | 3   |
| 2152 | Association between monoamine oxidase A activity in human male skin fibroblasts and genotype of the MAOA promoter-associated variable number tandem repeat. <b>1999</b> , 105, 542-551         | 52  |
| 2151 | Age-associated decreases in human DNA repair capacity: Implications for the skin. <b>1999</b> , 22, 45-57  | 6   |
| 2150 | Permanent cell cycle arrest in asynchronously proliferating normal human fibroblasts treated with doxorubicin or etoposide but not camptothecin. <b>1999</b> , 58, 675-85                      | 41  |
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| 2146 | Resistance to apoptosis in human CD8+ T cells that reach replicative senescence after multiple rounds of antigen-specific proliferation. <b>1999</b> , 34, 633-44                              | 220 |
| 2145 | Microarray analysis of replicative senescence. <b>1999</b> , 9, 939-45   | 611 |
| 2144 | Raf-1-induced cell cycle arrest in LNCaP human prostate cancer cells. <b>1999</b> , 72, 458-69   | 60  |
| 2143 | Centrosome and microtubule instability in aging <i>Drosophila</i> cells. <b>1999</b> , 74, 229-241   | 32  |
| 2142 | Decreased expression and activity of the immediate-early growth response (Egr-1) gene product during cellular senescence. <b>1999</b> , 179, 29-39   | 20  |
| 2141 | Cellular proliferation potential during aging and caloric restriction in rhesus monkeys ( <i>Macaca mulatta</i> ). <b>1999</b> , 180, 123-30   | 61  |
| 2140 | Phenotypical and functional properties of human bone marrow mesenchymal progenitor cells. <b>1999</b> , 181, 67-73   | 536 |
| 2139 | Dominant genetic alterations in immortalization: Role for 20q gain. <b>1999</b> , 26, 304-311  | 42  |
| 2138 | Telomerase-independent senescence of human immortal cells induced by microcell-mediated chromosome transfer. <b>1999</b> , 25, 249-55  | 12  |
| 2137 | How might replicative senescence contribute to human ageing?. <b>1998</b> , 20, 985-91   | 82  |
| 2136 | The proliferative capacity of neonatal skin fibroblasts is reduced after exposure to venous ulcer wound fluid: A potential mechanism for senescence in venous ulcers. <b>1999</b> , 30, 734-43 | 102 |

|      |   |     |
|------|---|-----|
| 2135 | Phospholipase D in cellular senescence. <b>1999</b> , 1439, 291-8   | 50  |
| 2134 | SEMP1, a senescence-associated cDNA isolated from human mammary epithelial cells, is a member of an epithelial membrane protein superfamily. <b>1999</b> , 226, 285-95  | 75  |
| 2133 | Cellular senescence of angiofibroma stroma cells from patients with tuberous sclerosis. <b>1999</b> , 21, 184-91  | 8   |
| 2132 | Association between monoamine oxidase A activity in human male skin fibroblasts and genotype of the MAOA promoter-associated variable number tandem repeat. <b>1999</b> , 105, 542-51   | 150 |
| 2131 | Molecular biology of aging. <b>1999</b> , 96, 291-302   | 366 |
| 2130 | Differentiation-related changes in the cell cycle traverse. <b>1999</b> , 189, 1-58   | 55  |
| 2129 | The effect of passage number on fibroblast cellular senescence in patients with chronic venous insufficiency with and without ulcer. <b>1999</b> , 178, 107-12  | 43  |
| 2128 | Two posttranscriptional pathways that regulate p21(Cip1/Waf1/Sdi1) are identified by HPV16-E6 interaction and correlate with life span and cellular senescence. <b>1999</b> , 247, 168-75   | 29  |
| 2127 | Attenuated expression of 70-kDa heat shock protein in WI-38 human fibroblasts during aging in vitro. <b>1999</b> , 252, 20-32   | 33  |
| 2126 | Introduction of chromosome 7 suppresses telomerase with shortening of telomeres in a human mesothelial cell line. <b>1999</b> , 252, 376-82   | 29  |
| 2125 | Differentiation between senescence (M1) and crisis (M2) in human fibroblast cultures. <b>1999</b> , 253, 519-22   | 102 |
| 2124 | Activation of a cAMP pathway and induction of melanogenesis correlate with association of p16(INK4) and p27(KIP1) to CDKs, loss of E2F-binding activity, and premature senescence of human melanocytes. <b>1999</b> , 253, 561-72 | 51  |
| 2123 | Telomerase activity in lens epithelial cells of normal and cataractous lenses. <b>1999</b> , 69, 641-9  | 37  |
| 2122 | Effect of antisense human telomerase RNA transfection on the growth of human gastric cancer cell lines. <b>1999</b> , 255, 753-8  | 31  |
| 2121 | Transforming growth factor beta triggers two independent-senescence programs in cancer cells. <b>1999</b> , 255, 110-5  | 96  |
| 2120 | Control of replicative life span in human cells: barriers to clonal expansion intermediate between M1 senescence and M2 crisis. <b>1999</b> , 19, 3103-14   | 92  |
| 2119 | 5-Bromodeoxyuridine induces senescence-like phenomena in mammalian cells regardless of cell type or species. <b>1999</b> , 126, 1052-9  | 107 |
| 2118 | Editorial: Biological Aging Research in Canada: Past, Present and Future. <b>1999</b> , 18, i-vii   | 1   |

|      |   |     |
|------|---|-----|
| 2117 | Editorial: Recherche sur le vieillissement biologique au Canada: passé, présent et avenir. <b>1999</b> , 18, viii-vx  | 0   |
| 2116 | Confluence-induced alterations in CpG island methylation in cultured normal human fibroblasts. <b>1999</b> , 27, 3229-35  | 22  |
| 2115 | Identification of a gene that reverses the immortal phenotype of a subset of cells and is a member of a novel family of transcription factor-like genes. <b>1999</b> , 19, 1479-85  | 130 |
| 2114 | Induced expression of p16(INK4a) inhibits both CDK4- and CDK2-associated kinase activity by reassortment of cyclin-CDK-inhibitor complexes. <b>1999</b> , 19, 1981-9  | 186 |
| 2113 | Cyclin E associates with BAF155 and BRG1, components of the mammalian SWI-SNF complex, and alters the ability of BRG1 to induce growth arrest. <b>1999</b> , 19, 1460-9   | 142 |
| 2112 | Long-term culture of purified postnatal oligodendrocyte precursor cells. Evidence for an intrinsic maturation program that plays out over months. <b>2000</b> , 148, 971-84   | 113 |
| 2111 | Apoptosis or senescence-like growth arrest: influence of cell-cycle position, p53, p21 and bax in H <sub>2</sub> O <sub>2</sub> response of normal human fibroblasts. <b>2000</b> , 347, 543-51   | 138 |
| 2110 | Cloning of human Ca <sup>2+</sup> homeostasis endoplasmic reticulum protein (CHERP): regulated expression of antisense cDNA depletes CHERP, inhibits intracellular Ca <sup>2+</sup> mobilization and decreases cell proliferation. <b>2000</b> , 348, 189-199 | 15  |
| 2109 | Apoptosis or senescence-like growth arrest: influence of cell-cycle position, p53, p21 and bax in H <sub>2</sub> O <sub>2</sub> response of normal human fibroblasts. <b>2000</b> , 347, 543-551  | 197 |
| 2108 | Increase of oxidatively modified protein is associated with a decrease of proteasome activity and content in aging epidermal cells. <b>2000</b> , 55, B220-7  | 151 |
| 2107 | A deficit in collagenase activity contributes to impaired migration of aged microvascular endothelial cells. <b>2000</b> , 77, 116-126  | 63  |
| 2106 | Decreased cellular activity and replicative capacity of osteoblastic cells isolated from the periarticular bone of rheumatoid arthritis patients compared with osteoarthritis patients. <b>2000</b> , 43, 2178-88   | 30  |
| 2105 | Defective extracellular matrix reorganization by chronic wound fibroblasts is associated with alterations in TIMP-1, TIMP-2, and MMP-2 activity. <b>2000</b> , 115, 225-33  | 138 |
| 2104 | Appearance of biomarkers of in vitro ageing after successive stimulation of WI-38 fibroblasts with IL-1 $\alpha$ and TNF- $\alpha$ : senescence associated beta-galactosidase activity and morphotype transition. <b>2000</b> , 197 Pt 4, 529-37              | 40  |
| 2103 | Identification of a YAC from 16q24 carrying a senescence gene for breast cancer cells. <b>2000</b> , 19, 217-22   | 12  |
| 2102 | p16/MTS1/INK4A suppresses prostate cancer by both pRb dependent and independent pathways. <b>2000</b> , 19, 1297-306  | 34  |
| 2101 | p16 INK4a can initiate an autonomous senescence program. <b>2000</b> , 19, 1613-22  | 121 |
| 2100 | Defects in TGF-beta signaling overcome senescence of mouse keratinocytes expressing v-Ha-ras. <b>2000</b> , 19, 1698-709  | 90  |

|      |  |     |
|------|--|-----|
| 2099 | Translation of p15.INK4B, an N-terminally extended and fully active form of p15INK4B, is initiated from an upstream GUG codon. <b>2000</b> , 19, 1724-8                | 18  |
| 2098 | LMP1 of Epstein-Barr virus suppresses cellular senescence associated with the inhibition of p16INK4a expression. <b>2000</b> , 19, 2002-13                             | 58  |
| 2097 | Human endothelial cells expressing polyoma middle T induce tumors. <b>2000</b> , 19, 3632-41   | 24  |
| 2096 | Restoration of positioning control following Disabled-2 expression in ovarian and breast tumor cells. <b>2000</b> , 19, 4847-54  | 67  |
| 2095 | Reduction of Cdc25A contributes to cyclin E1-Cdk2 inhibition at senescence in human mammary epithelial cells. <b>2000</b> , 19, 5314-23                                | 47  |
| 2094 | PML regulates p53 acetylation and premature senescence induced by oncogenic Ras. <b>2000</b> , 406, 207-10   | 690 |
| 2093 | Hayflick, his limit, and cellular ageing. <b>2000</b> , 1, 72-6  | 413 |
| 2092 | The age of cancer. <b>2000</b> , 408, 248-54   | 745 |
| 2091 | When lysosomes get old. <b>2000</b> , 35, 119-31   | 189 |
| 2090 | In vitro aging research in Japan. <b>2000</b> , 35, 291-8  | 3   |
| 2089 | Biogerontological research in Canada. <b>2000</b> , 35, 271-89   | 4   |
| 2088 | Senescence-like changes induced by hydroxyurea in human diploid fibroblasts. <b>2000</b> , 35, 553-71  | 58  |
| 2087 | Cellular and molecular mechanisms of stress-induced premature senescence (SIPS) of human diploid fibroblasts and melanocytes. <b>2000</b> , 35, 927-45                 | 523 |
| 2086 | Epidermal differentiation, apoptosis, and senescence: common pathways?. <b>2000</b> , 35, 53-62  | 99  |
| 2085 | Enhanced oxidative stress and accelerated cellular senescence in glucose-6-phosphate dehydrogenase (G6PD)-deficient human fibroblasts. <b>2000</b> , 29, 156-69        | 84  |
| 2084 | Induction of replicative senescence biomarkers by sublethal oxidative stresses in normal human fibroblast. <b>2000</b> , 28, 361-73                                    | 287 |
| 2083 | Genetic regulation of primitive hematopoietic stem cell senescence. <b>2000</b> , 28, 442-50   | 127 |
| 2082 | Atmospheric oxygen accelerates the induction of a post-mitotic phenotype in human dermal fibroblasts: the key protective role of glutathione. <b>2000</b> , 66, 147-55 | 41  |

|      |   |     |
|------|---|-----|
| 2081 | Telomerase and mammalian ageing: a critical appraisal. <b>2000</b> , 114, 69-77   | 44  |
| 2080 | Cytoplasmic retention of p-Erk1/2 and nuclear accumulation of actin proteins during cellular senescence in human diploid fibroblasts. <b>2000</b> , 119, 113-30   | 51  |
| 2079 | Human keratocyte migration into collagen gels declines with in vitro ageing. <b>2000</b> , 119, 149-57  | 13  |
| 2078 | A cell kinetic analysis of human umbilical vein endothelial cells. <b>2000</b> , 120, 23-32   | 28  |
| 2077 | Ceramide induces expression of the senescence histochemical marker, beta-galactosidase, in human fibroblasts. <b>2000</b> , 113, 169-81   | 55  |
| 2076 | Cultured myf5 null and myoD null muscle precursor cells display distinct growth defects. <b>2000</b> , 92, 565-72   | 48  |
| 2075 | Somatic mutations and aging: a re-evaluation. <b>2000</b> , 447, 117-35   | 188 |
| 2074 | Concurrence of replicative senescence and elevated expression of p16(INK4A) with subculture-induced but not calcium-induced differentiation in normal human oral keratinocytes. <b>2000</b> , 45, 809-18            | 21  |
| 2073 | Thymic involution in aging. <b>2000</b> , 20, 250-6   | 221 |
| 2072 | Senescence and immortalization of human cells. <b>2000</b> , 1, 103-21  | 32  |
| 2071 | Possible role of subunit A of nuclear factor Y (NF-YA) in normal human diploid fibroblasts during senescence. <b>2000</b> , 1, 261-71   | 11  |
| 2070 | Hepatic polyploidy and liver growth control. <b>2000</b> , 10, 161-71   | 203 |
| 2069 | Papillomavirus E2 induces senescence in HPV-positive cells via pRB- and p21(CIP)-dependent pathways. <b>2000</b> , 19, 5762-71  | 161 |
| 2068 | Measurements of hydrogen peroxide induced premature senescence: senescence-associated beta-galactosidase and DNA synthesis index in human diploid fibroblasts with down-regulated p53 or Rb. <b>2000</b> , 1, 335-9 | 35  |
| 2067 | Ageing clock: the watchmaker's masterpiece. <b>2000</b> , 57, 698-704   | 19  |
| 2066 | Cellular response to oncogenic ras involves induction of the Cdk4 and Cdk6 inhibitor p15(INK4b). <b>2000</b> , 20, 2915-25  | 148 |
| 2065 | Evidence for a telomere-independent "clock" limiting RAS oncogene-driven proliferation of human thyroid epithelial cells. <b>2000</b> , 20, 5690-9  | 75  |
| 2064 | Subsenescent telomere lengths in fibroblasts immortalized by limiting amounts of telomerase. <b>2000</b> , 275, 10072-6   | 196 |

|      |  |          |
|------|--|----------|
| 2063 | The role of senescence and immortalization in carcinogenesis. <b>2000</b> , 21, 477-84   | 167      |
| 2062 | Rapid induction of senescence in human cervical carcinoma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 10978-83 | 11.5 166 |
| 2061 | Inhibition of the phosphoinositide 3-kinase pathway induces a senescence-like arrest mediated by p27Kip1. <b>2000</b> , 275, 21960-8   | 203      |
| 2060 | CBFA1 and topoisomerase I mRNA levels decline during cellular aging of human trabecular osteoblasts. <b>2000</b> , 55, B194-200  | 22       |
| 2059 | Ups and downs of aging studies in vitro: the crooked path of science. <b>2000</b> , 46, 55-63  | 12       |
| 2058 | SV40-mediated immortalization. <b>2001</b> , 165, 185-99   | 12       |
| 2057 | Role of Cell Senescence in Human Aging. <b>2000</b> , 3, 91-98   | 4        |
| 2056 | SV40 Protocols. <b>2000</b> ,  | 3        |
| 2055 | Uncoupling between phenotypic senescence and cell cycle arrest in aging p21-deficient fibroblasts. <b>2000</b> , 20, 6741-54   | 80       |
| 2054 | Accelerated telomere shortening and senescence in human pancreatic islet cells stimulated to divide in vitro. <b>2000</b> , 166, 103-9   | 107      |
| 2053 | Regulation of a senescence checkpoint response by the E2F1 transcription factor and p14(ARF) tumor suppressor. <b>2000</b> , 20, 273-85  | 348      |
| 2052 | Identification of a series of transforming growth factor beta-responsive genes by retrovirus-mediated gene trap screening. <b>2000</b> , 20, 3266-73                                 | 37       |
| 2051 | Significance of nuclear relocalization of ERK1/2 in reactivation of c-fos transcription and DNA synthesis in senescent fibroblasts. <b>2000</b> , 275, 20685-92                      | 59       |
| 2050 | Up-regulation of caveolin attenuates epidermal growth factor signaling in senescent cells. <b>2000</b> , 275, 20847-52   | 182      |
| 2049 | The Werner syndrome protein contributes to induction of p53 by DNA damage. <b>2000</b> , 14, 2138-40   | 39       |
| 2048 | Retinoic acid extends the in vitro life span of normal human oral keratinocytes by decreasing p16(INK4A) expression and maintaining telomerase activity. <b>2000</b> , 268, 268-74   | 27       |
| 2047 | Transient expression of human telomerase extends the life span of normal human fibroblasts. <b>2000</b> , 273, 1095-8  | 113      |
| 2046 | Galectin-3 expression and subcellular localization in senescent human fibroblasts. <b>2000</b> , 255, 278-90   | 40       |

|      |   |     |
|------|---|-----|
| 2045 | Gene-specific DNA repair of pyrimidine dimers does not decline during cellular aging in vitro. <b>2000</b> , 256, 308-14                                | 18  |
| 2044 | Immunolocalization of human p14(ARF) to the granular component of the interphase nucleolus. <b>2000</b> , 256, 400-10                                   | 77  |
| 2043 | Is beta-galactosidase staining a marker of senescence in vitro and in vivo?. <b>2000</b> , 257, 162-71  | 288 |
| 2042 | In vitro replication and differentiation of normal human oral keratinocytes. <b>2000</b> , 258, 288-97  | 55  |
| 2041 | Telomerase expression restores dermal integrity to in vitro-aged fibroblasts in a reconstituted skin model. <b>2000</b> , 258, 270-8                    | 127 |
| 2040 | Mass cultured human fibroblasts overexpressing hTERT encounter a growth crisis following an extended period of proliferation. <b>2000</b> , 259, 336-50 | 75  |
| 2039 | Loss of chromosome 13 in cultured human vascular endothelial cells. <b>2000</b> , 260, 357-64   | 28  |
| 2038 | Expression of p57(KIP2) potently blocks the growth of human astrocytomas and induces cell senescence. <b>2000</b> , 157, 919-32                         | 65  |
| 2037 | Genetic and epigenetic changes in human epithelial cells immortalized by telomerase. <b>2000</b> , 156, 1537-47   | 146 |
| 2036 | Nuclear expression of the p16CDKN2 gene product during senescence of human pharyngeal epithelial cells. <b>2000</b> , 27, 147-51                        | 2   |
| 2035 | The in vitro life-span of human periodontal ligament fibroblasts. <b>2000</b> , 32, 163-70  | 16  |
| 2034 | Impairment of osteocalcin production in senescent periodontal ligament fibroblasts. <b>2000</b> , 32, 198-204   | 8   |
| 2033 | JunD protects cells from p53-dependent senescence and apoptosis. <b>2000</b> , 6, 1109-19   | 203 |
| 2032 | DNA ligase IV deficiency in mice leads to defective neurogenesis and embryonic lethality via the p53 pathway. <b>2000</b> , 5, 993-1002                 | 408 |
| 2031 | Expression of senescence-associated beta-galactosidase in enlarged prostates from men with benign prostatic hyperplasia. <b>2000</b> , 56, 160-6        | 138 |
| 2030 | Peroxide accumulation without major mitochondrial alteration in replicative senescence. <b>2000</b> , 468, 43-7   | 12  |
| 2029 | Homocysteine accelerates endothelial cell senescence. <b>2000</b> , 470, 20-4   | 153 |
| 2028 | Inactivation of p53 and life span extension of human diploid fibroblasts by mot-2. <b>2000</b> , 474, 159-64  | 60  |

|      |   |     |
|------|---|-----|
| 2027 | Extension of cell life-span and telomere length in animals cloned from senescent somatic cells. <b>2000</b> , 288, 665-9  | 388 |
| 2026 | The hTERT $\alpha$ splice variant is a dominant negative inhibitor of telomerase activity. <b>2000</b> , 2, 426-32  | 169 |
| 2025 | Cellular Senescence Mechanisms Independent of Telomere Shortening and Telomerase: Other Barriers to Cell immortalization and Carcinogenesis. <b>2000</b> , 3, 373-382 | 5   |
| 2024 | JunB suppresses cell proliferation by transcriptional activation of p16(INK4a) expression. <b>2000</b> , 19, 2969-79  | 241 |
| 2023 | If not apoptosis, then what? Treatment-induced senescence and mitotic catastrophe in tumor cells. <b>2001</b> , 4, 303-13   | 558 |
| 2022 | Lack of replicative senescence in cultured rat oligodendrocyte precursor cells. <b>2001</b> , 291, 868-71   | 210 |
| 2021 | Culture condition-dependent senescence-like growth arrest and immortalization in rodent embryo cells. <b>2001</b> , 155, 254-262                                      | 23  |
| 2020 | Synopsis on cellular senescence and apoptosis. <b>2001</b> , 34, 173-7  | 22  |
| 2019 | Senescence and the healing rates of venous ulcers. <b>2001</b> , 33, 1206-11  | 112 |
| 2018 | Induction of telomere shortening and replicative senescence by cryopreservation. <b>2001</b> , 282, 493-8   | 36  |
| 2017 | Gene profile of replicative senescence is different from progeria or elderly donor. <b>2001</b> , 282, 934-9  | 44  |
| 2016 | Mammalian prohibitin proteins respond to mitochondrial stress and decrease during cellular senescence. <b>2001</b> , 265, 262-73                                      | 166 |
| 2015 | Uncoupling the senescent phenotype from telomere shortening in hydrogen peroxide-treated fibroblasts. <b>2001</b> , 265, 294-303                                      | 142 |
| 2014 | Increased mitochondrial-encoded gene transcription in immortal DF-1 cells. <b>2001</b> , 265, 339-47  | 31  |
| 2013 | Heat-induced proteasomic degradation of HSF1 in serum-starved human fibroblasts aging in vitro. <b>2001</b> , 267, 165-72   | 16  |
| 2012 | Reconstitution of dna synthetic capacity in senescent normal human fibroblasts by expressing cellular factors E2F and Mdm2. <b>2001</b> , 270, 268-76                 | 7   |
| 2011 | Alterations in p53 and E2F-1 function common to immortalized chicken embryo fibroblasts. <b>2001</b> , 20, 2671-82  | 33  |
| 2010 | Replicative senescence in normal liver, chronic hepatitis C, and hepatocellular carcinomas. <b>2001</b> , 32, 327-32  | 232 |



|      |   |      |
|------|---|------|
| 2009 | [Cyclin dependent kinase inhibitors and replicative senescence]. <b>2001</b> , 49, 830-9  | 3    |
| 2008 | Telomeres, replicative senescence and human ageing. <b>2001</b> , 38, 25-37; discussion 37-8  | 50   |
| 2007 | Necrotic cell death by hydrogen peroxide in immortal DF-1 chicken embryo fibroblast cells expressing deregulated MnSOD and catalase. <b>2001</b> , 1540, 137-46   | 20   |
| 2006 | Analysis of N-glycans of pathological tau: possible occurrence of aberrant processing of tau in Alzheimer's disease. <b>2001</b> , 496, 152-60  | 43   |
| 2005 | Histone deacetylases in replicative senescence: evidence for a senescence-specific form of HDAC-2. <b>2001</b> , 499, 101-6   | 33   |
| 2004 | Growth kinetics rather than stress accelerate telomere shortening in cultures of human diploid fibroblasts in oxidative stress-induced premature senescence. <b>2001</b> , 502, 109-12  | 34   |
| 2003 | Cellular senescence: a new marker of kidney function recovery after ischemic injury in rats. <b>2001</b> , 33, 2910-5   | 7    |
| 2002 | The Pin2/TRF1-interacting protein PinX1 is a potent telomerase inhibitor. <b>2001</b> , 107, 347-59   | 248  |
| 2001 | Senescent fibroblasts promote epithelial cell growth and tumorigenesis: a link between cancer and aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 12072-7 <sup>11.5</sup> | 1169 |
| 2000 | Telomerase expression prevents replicative senescence but does not fully reset mRNA expression patterns in Werner syndrome cell strains. <b>2001</b> , 15, 1014-1020  | 12   |
| 1999 | Involvement of REL/NF-B Transcription Factors in Cellular Senescence. <b>2001</b> , 1, 67   | 1    |
| 1998 | Differential expression of chicken dimerization cofactor of hepatocyte nuclear factor-1 (DcoH) and its novel counterpart, DcoHE. <b>2001</b> , 354, 645-653   | 7    |
| 1997 | Senescence delay of human diploid fibroblast induced by anti-sense p16INK4a expression. <b>2001</b> , 276, 48325-31   | 49   |
| 1996 | Conversion of normal to malignant phenotype: telomere shortening, telomerase activation, and genomic instability during immortalization of human oral keratinocytes. <b>2001</b> , 12, 38-54  | 25   |
| 1995 | Rapid reversion of aging phenotypes by nicotinamide through possible modulation of histone acetylation. <b>2001</b> , 58, 2108-16   | 21   |
| 1994 | Endogenous beta-galactosidase activity in amphioxus: a useful histochemical marker for the digestive system. <b>2001</b> , 211, 154-6   | 5    |
| 1993 | Rapid senescence induced by overexpression of p53 in NIH3T3 cells. <b>2001</b> , 46, 653-656  |      |
| 1992 | Telomeres and telomerase: basic science implications for aging. <b>2001</b> , 49, 1105-9  | 62   |

|      |   |      |
|------|---|------|
| 1991 | Regulation of cellular senescence by p53. <b>2001</b> , 268, 2784-91  | 256  |
| 1990 | Differential response of mature TrkA/p75(NTR) expressing human and pig oligodendrocytes: aging, does it matter?. <b>2001</b> , 52, 689-99   | 6    |
| 1989 | Sodium butyrate induces growth arrest and senescence-like phenotypes in gynecologic cancer cells. <b>2001</b> , 94, 257-67  | 67   |
| 1988 | Upregulation of the gene encoding a cytoplasmic dynein intermediate chain in senescent human cells. <b>2001</b> , 82, 415-21  | 11   |
| 1987 | Human periosteum-derived cells maintain phenotypic stability and chondrogenic potential throughout expansion regardless of donor age. <b>2001</b> , 44, 85-95                             | 460  |
| 1986 | Multipotent mesenchymal stem cells from adult human synovial membrane. <b>2001</b> , 44, 1928-42  | 1435 |
| 1985 | Multilineage cells from human adipose tissue: implications for cell-based therapies. <b>2001</b> , 7, 211-28  | 6031 |
| 1984 | Tubular cell senescence and expression of TGF-beta1 and p21(WAF1/CIP1) in tubulointerstitial fibrosis of aging rats. <b>2001</b> , 70, 43-53  | 92   |
| 1983 | Reconstituting telomerase activity using the telomerase catalytic subunit prevents the telomere shorting and replicative senescence in human osteoblasts. <b>2001</b> , 16, 1453-64       | 71   |
| 1982 | Epigenetic changes accompanying human mammary epithelial cell immortalization. <b>2001</b> , 6, 223-34  | 11   |
| 1981 | Loss of chromosomal integrity in human mammary epithelial cells subsequent to escape from senescence. <b>2001</b> , 6, 235-43   | 35   |
| 1980 | Mitochondrial alterations, cellular response to oxidative stress and defective degradation of proteins in aging. <b>2001</b> , 2, 231-44  | 84   |
| 1979 | Chronic in vitro exposure to 3'-azido-2', 3'-dideoxythymidine induces senescence and apoptosis and reduces tumorigenicity of metastatic mouse mammary tumor cells. <b>2001</b> , 65, 93-9 | 31   |
| 1978 | A highly selective telomerase inhibitor limiting human cancer cell proliferation. <b>2001</b> , 20, 6958-68   | 287  |
| 1977 | Relevance of in vitro studies for aging of the organism. A review. <b>2001</b> , 34, 429-36   | 4    |
| 1976 | Generation of human pulmonary microvascular endothelial cell lines. <b>2001</b> , 81, 1717-27   | 126  |
| 1975 | Adenovirus-mediated wt-p16 reintroduction induces cell cycle arrest or apoptosis in pancreatic cancer. <b>2001</b> , 8, 740-50  | 32   |
| 1974 | Cell cycle arrest is sufficient for p53-mediated tumor regression. <b>2001</b> , 8, 1705-12   | 17   |

|      |  |     |
|------|--|-----|
| 1973 | Characterization of ataxia telangiectasia fibroblasts with extended life-span through telomerase expression. <b>2001</b> , 20, 278-88                              | 81  |
| 1972 | Cloning and characterization of a senescence inducing and class II tumor suppressor gene in ovarian carcinoma at chromosome region 6q27. <b>2001</b> , 20, 980-8   | 58  |
| 1971 | Human fibroblast replicative senescence can occur in the absence of extensive cell division and short telomeres. <b>2001</b> , 20, 3541-52                         | 60  |
| 1970 | p53 and its homologues, p63 and p73, induce a replicative senescence through inactivation of NF- $\kappa$ B transcription factor. <b>2001</b> , 20, 5818-25        | 83  |
| 1969 | Role of cyclin-dependent kinase inhibitors in the growth arrest at senescence in human prostate epithelial and uroepithelial cells. <b>2001</b> , 20, 8184-92      | 86  |
| 1968 | Normal human mammary epithelial cells spontaneously escape senescence and acquire genomic changes. <b>2001</b> , 409, 633-7  | 546 |
| 1967 | The bacterial conjugation protein TrwB resembles ring helicases and F1-ATPase. <b>2001</b> , 409, 637-41   | 279 |
| 1966 | Opposing effects of Ets and Id proteins on p16INK4a expression during cellular senescence. <b>2001</b> , 409, 1067-70  | 530 |
| 1965 | Repression of p15INK4b expression by Myc through association with Miz-1. <b>2001</b> , 3, 392-9  | 461 |
| 1964 | Loss of p16Ink4a with retention of p19Arf predisposes mice to tumorigenesis. <b>2001</b> , 413, 86-91  | 688 |
| 1963 | Cell senescence and cancer. <b>2001</b> , 1, 203-13  | 211 |
| 1962 | Peroxidation of linoleic acid and its relation to aging and age dependent diseases. <b>2001</b> , 122, 617-57  | 54  |
| 1961 | Senescent cells are resistant to death despite low Bcl-2 level. <b>2001</b> , 122, 1695-706  | 61  |
| 1960 | Altered composition and DNA binding activity of the AP-1 transcription factor during the ageing of human fibroblasts. <b>2001</b> , 122, 1813-24                   | 20  |
| 1959 | Rescue of a telomere length defect of Nijmegen breakage syndrome cells requires NBS and telomerase catalytic subunit. <b>2001</b> , 11, 962-6                      | 99  |
| 1958 | From cells to organisms: can we learn about aging from cells in culture?. <b>2001</b> , 36, 607-18   | 234 |
| 1957 | Two-dimensional gel electrophoretic studies on the cellular aging: accumulation of alpha-2-macroglobulin in human fibroblasts with aging. <b>2001</b> , 36, 487-95 | 15  |
| 1956 | The human melanocyte: a model system to study the complexity of cellular aging and transformation in non-fibroblastic cells. <b>2001</b> , 36, 1265-75             | 55  |

|      |  |         |
|------|--|---------|
| 1955 | Replicative senescence of human endothelial cells in vitro involves G1 arrest, polyploidization and senescence-associated apoptosis. <b>2001</b> , 36, 1327-47   | 169     |
| 1954 | Stress, DNA damage and ageing -- an integrative approach. <b>2001</b> , 36, 1049-62  | 157     |
| 1953 | mRNA levels of the differentiation-associated linker histone variant H1 zero in mitotically active and postmitotic senescent human diploid fibroblast cell populations. <b>2001</b> , 36, 1649-61  | 7       |
| 1952 | Cellular senescence, cancer and aging: the telomere connection. <b>2001</b> , 36, 1619-37  | 310     |
| 1951 | Metabolic stabilization of p27 in senescent fibroblasts correlates with reduced expression of the F-box protein Skp2. <b>2001</b> , 37, 41-55  | 26      |
| 1950 | cRel induces mitochondrial alterations in correlation with proliferation arrest. <b>2001</b> , 31, 943-53  | 15      |
| 1949 | Putting the stress on senescence. <b>2001</b> , 13, 748-53   | 351     |
| 1948 | Differentiation and growth potential of human ovarian surface epithelial cells expressing temperature-sensitive SV40 T antigen. <b>2001</b> , 37, 515-21   | 18      |
| 1947 | Telomerase expression prevents replicative senescence but does not fully reset mRNA expression patterns in Werner syndrome cell strains. <b>2001</b> , 15, 1014-20   | 76      |
| 1946 | TRADD domain of Epstein-Barr virus transforming protein LMP1 is essential for inducing immortalization and suppressing senescence of primary rodent fibroblasts. <b>2001</b> , 75, 3010-5  | 17      |
| 1945 | Distinct mechanisms of cell cycle arrest control the decision between differentiation and senescence in human neuroblastoma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 9396-400 | 11.5 90 |
| 1944 | DNA methyltransferase inhibition in normal human fibroblasts induces a p21-dependent cell cycle withdrawal. <b>2001</b> , 276, 19610-6   | 55      |
| 1943 | The ink4a/arf tumor suppressors cooperate with p21cip1/waf in the processes of mouse epidermal differentiation, senescence, and carcinogenesis. <b>2001</b> , 276, 44203-11  | 40      |
| 1942 | Regulation and localization of the Bloom syndrome protein in response to DNA damage. <b>2001</b> , 153, 367-80   | 235     |
| 1941 | NAPO as a novel marker for apoptosis. <b>2001</b> , 155, 719-24  | 14      |
| 1940 | Requirement for p27(KIP1) in retinoblastoma protein-mediated senescence. <b>2001</b> , 21, 3616-31   | 131     |
| 1939 | Cellular senescence after single and repeated balloon catheter denudations of rabbit carotid arteries. <b>2001</b> , 21, 220-6   | 171     |
| 1938 | Down-regulation of amphiphysin-1 is responsible for reduced receptor-mediated endocytosis in the senescent cells. <b>2001</b> , 15, 1625-7   | 54      |

|      |  |      |     |
|------|--|------|-----|
| 1937 | Aging in mitotic and post-mitotic cells. <b>2001</b> , 1-16  |      | 4   |
| 1936 | Selective in vivo and in vitro effects of a small molecule inhibitor of cyclin-dependent kinase 4. <b>2001</b> , 93, 436-46  |      | 91  |
| 1935 | Subcytotoxic H <sub>2</sub> O <sub>2</sub> stress triggers a release of transforming growth factor-beta 1, which induces biomarkers of cellular senescence of human diploid fibroblasts. <b>2001</b> , 276, 2531-7 |      | 247 |
| 1934 | Immortalization of human embryonic fibroblasts by overexpression of c-myc and simian virus 40 large T antigen. <b>2001</b> , 33, 293-8   |      | 9   |
| 1933 | Absence of germline infection in male mice following intraventricular injection of adenovirus. <b>2001</b> , 4, 603-13   |      | 30  |
| 1932 | Putative telomere-independent mechanisms of replicative aging reflect inadequate growth conditions. <b>2001</b> , 15, 398-403  |      | 347 |
| 1931 | Dual growth arrest pathways in astrocytes and astrocytic tumors in response to Raf-1 activation. <b>2001</b> , 276, 18871-7  |      | 43  |
| 1930 | Telomere erosion and senescence in human articular cartilage chondrocytes. <b>2001</b> , 56, B172-9  |      | 166 |
| 1929 | Conditional immortalization of freshly isolated human mammary fibroblasts and endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 646-51 | 11.5 | 202 |
| 1928 | Id1 regulation of cellular senescence through transcriptional repression of p16/Ink4a. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 7812-6           | 11.5 | 180 |
| 1927 | Induction of a senescence-like phenotype in bovine aortic endothelial cells by ionizing radiation. <b>2001</b> , 156, 232-40   |      | 71  |
| 1926 | Human diploid fibroblasts that undergo a senescent-like differentiation have elevated ceramide and diacylglycerol. <b>2001</b> , 56, B8-19   |      | 12  |
| 1925 | In vitro models to study cellular differentiation and function in human prostate cancers. <b>2001</b> , 155, 133-142   |      | 40  |
| 1924 | p53-mediated apoptosis and genomic instability diseases. <b>2001</b> , 40, 696-701   |      | 41  |
| 1923 | TANK2, a new TRF1-associated poly(ADP-ribose) polymerase, causes rapid induction of cell death upon overexpression. <b>2001</b> , 276, 35891-9   |      | 162 |
| 1922 | Radiation-induced senescence-like growth arrest requires TP53 function but not telomere shortening. <b>2001</b> , 155, 248-253   |      | 132 |
| 1921 | Role of p14(ARF) in replicative and induced senescence of human fibroblasts. <b>2001</b> , 21, 6748-57   |      | 198 |
| 1920 | Loss of HuR is linked to reduced expression of proliferative genes during replicative senescence. <b>2001</b> , 21, 5889-98  |      | 149 |

|      |   |     |
|------|---|-----|
| 1919 | Telomerase suppression by chromosome 6 in a human papillomavirus type 16-immortalized keratinocyte cell line and in a cervical cancer cell line. <b>2001</b> , 93, 865-72   | 60  |
| 1918 | Differential expression of thymosin beta-10 by early passage and senescent vascular endothelium is modulated by VPF/VEGF: evidence for senescent endothelial cells in vivo at sites of atherosclerosis. <b>2001</b> , 15, 458-66          | 188 |
| 1917 | Lithium inhibits cell cycle progression and induces stabilization of p53 in bovine aortic endothelial cells. <b>2001</b> , 276, 26180-8   | 71  |
| 1916 | Lack of replicative senescence in normal rodent glia. <b>2001</b> , 291, 872-5  | 166 |
| 1915 | Gonad-specific expression of two novel chicken complementary DNA isoforms. <b>2001</b> , 64, 1473-80  | 2   |
| 1914 | The role of telomerase in age-related degenerative disease and cancer. <b>2001</b> , 7, 163-204   | 1   |
| 1913 | Centrosome disorganization in fibroblast cultures derived from R6/2 Huntington's disease (HD) transgenic mice and HD patients. <b>2001</b> , 10, 2425-35  | 86  |
| 1912 | Animal Cell Technology: Challenges for the 21st Century. <b>2002</b> ,  |     |
| 1911 | Controlled expansion of human endothelial cell populations by Cre-loxP-based reversible immortalization. <b>2002</b> , 13, 321-34   | 36  |
| 1910 | Further in vivo evidence that cellular senescence is implicated in vascular pathophysiology. <b>2002</b> , 106, e144; author reply e144   | 3   |
| 1909 | Direct evidence that IFN-beta functions as a tumor-suppressor protein. <b>2002</b> , 22, 1089-98  | 32  |
| 1908 | A critical role for Pin2/TRF1 in ATM-dependent regulation. Inhibition of Pin2/TRF1 function complements telomere shortening, radiosensitivity, and the G(2)/M checkpoint defect of ataxia-telangiectasia cells. <b>2002</b> , 277, 7420-9 | 51  |
| 1907 | Expression of human telomerase (hTERT) does not prevent stress-induced senescence in normal human fibroblasts but protects the cells from stress-induced apoptosis and necrosis. <b>2002</b> , 277, 38540-9                               | 183 |
| 1906 | Endothelial cell senescence in human atherosclerosis: role of telomere in endothelial dysfunction. <b>2002</b> , 105, 1541-4  | 765 |
| 1905 | Regions and activities of simian virus 40 T antigen that cooperate with an activated ras oncogene in transforming primary rat embryo fibroblasts. <b>2002</b> , 76, 3145-57   | 18  |
| 1904 | Mechanisms of aging. <b>2002</b> , 138, 1429-32   | 18  |
| 1903 | Germ line transmission of the Cdk4(R24C) mutation facilitates tumorigenesis and escape from cellular senescence. <b>2002</b> , 22, 644-56   | 142 |
| 1902 | Skip interacts with the retinoblastoma tumor suppressor and inhibits its transcriptional repression activity. <b>2002</b> , 30, 5261-8  | 41  |

|      |  |     |
|------|--|-----|
| 1901 | Replicative senescence revisited. <b>2002</b> , 57, B257-69  | 51  |
| 1900 | Long-term effect of interferon on keratinocytes that maintain human papillomavirus type 31. <b>2002</b> , 76, 8864-74  | 41  |
| 1899 | Senescence associated beta galactosidase activity in human retinal pigment epithelial cells exposed to mild hyperoxia in vitro. <b>2002</b> , 86, 159-62   | 25  |
| 1898 | A quantitative model of cellular senescence influence on cancer and longevity. <b>2002</b> , 18, 365-76  | 19  |
| 1897 | Role of p21 in apoptosis and senescence of human colon cancer cells treated with camptothecin. <b>2002</b> , 277, 17154-60   | 183 |
| 1896 | The viral oncogene human papillomavirus E7 deregulates transcriptional silencing by Brm-related gene 1 via molecular interactions. <b>2002</b> , 277, 48842-8  | 22  |
| 1895 | Reversible manipulation of telomerase expression and telomere length. Implications for the ionizing radiation response and replicative senescence of human cells. <b>2002</b> , 277, 28609-17            | 72  |
| 1894 | Trans-differentiation of prostatic stromal cells leads to decreased glycoprotein hormone alpha production. <b>2002</b> , 87, 5297-303  | 13  |
| 1893 | Leukocyte lysosomal enzymes in Alzheimer's disease and Down's syndrome. <b>2002</b> , 57, B16-21   | 12  |
| 1892 | Oncogenic ras and p53 cooperate to induce cellular senescence. <b>2002</b> , 22, 3497-508  | 251 |
| 1891 | Cdk4 disruption renders primary mouse cells resistant to oncogenic transformation, leading to Arf/p53-independent senescence. <b>2002</b> , 16, 2923-34  | 110 |
| 1890 | p16(Ink4a) in melanocyte senescence and differentiation. <b>2002</b> , 94, 446-54  | 140 |
| 1889 | Peroxisome senescence in human fibroblasts. <b>2002</b> , 13, 4243-55  | 130 |
| 1888 | Adriamycin-induced senescence in breast tumor cells involves functional p53 and telomere dysfunction. <b>2002</b> , 277, 35509-15  | 183 |
| 1887 | Cell cycle arrest by human cytomegalovirus 86-kDa IE2 protein resembles premature senescence. <b>2002</b> , 76, 12135-48   | 45  |
| 1886 | Contribution of estrogen receptor alpha to oncogenic K-Ras-mediated NIH3T3 cell transformation and its implication for escape from senescence by modulating the p53 pathway. <b>2002</b> , 277, 11217-24 | 26  |
| 1885 | Hepatocyte telomere shortening and senescence are general markers of human liver cirrhosis. <b>2002</b> , 16, 935-42   | 385 |
| 1884 | Expression of caveolin-1 induces premature cellular senescence in primary cultures of murine fibroblasts. <b>2002</b> , 13, 2502-17  | 175 |

|      |   |          |
|------|---|----------|
| 1883 | Induction of extracellular matrix-remodeling genes by the senescence-associated protein APA-1. <b>2002</b> , 22, 7385-97  | 42       |
| 1882 | Glycated collagen I induces premature senescence-like phenotypic changes in endothelial cells. <b>2002</b> , 90, 1290-8   | 129      |
| 1881 | Molecular determinants of terminal growth arrest induced in tumor cells by a chemotherapeutic agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 389-94  | 11.5 258 |
| 1880 | Identification and cloning of human polynucleotide phosphorylase, hPNPase old-35, in the context of terminal differentiation and cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 16636-41 | 11.5 95  |
| 1879 | Role of telomere in endothelial dysfunction in atherosclerosis. <b>2002</b> , 13, 537-43  | 46       |
| 1878 | Events in the immortalizing process of primary human mammary epithelial cells by the catalytic subunit of human telomerase. <b>2002</b> , 365, 765-72   | 41       |
| 1877 | Iron chelation-induced senescence-like growth arrest in hepatocyte cell lines: association of transforming growth factor beta1 (TGF-beta1)-mediated p27Kip1 expression. <b>2002</b> , 366, 613-21   | 64       |
| 1876 | Induction of p16/INK4a gene expression and cellular senescence by toyocamycin. <b>2002</b> , 25, 1272-6   | 9        |
| 1875 | Induction of p16INK4a transcription and of cellular senescence by aclacinomycin-derivatives and cardiac glycosides. <b>2002</b> , 25, 461-5   | 6        |
| 1874 | Lentiviral Transfer of the LacZ Gene into Human Endothelial Cells and Human Bone Marrow Mesenchymal Stem Cells. <b>2002</b> , 11, 481-488   | 37       |
| 1873 | Effects of telomerase and viral oncogene expression on the in vitro growth of human chondrocytes. <b>2002</b> , 57, B48-53  | 20       |
| 1872 | Is there an antiaging medicine?. <b>2002</b> , 57, B333-8   | 30       |
| 1871 | Expression profiles of p53-, p16(INK4a)-, and telomere-regulating genes in replicative senescent primary human, mouse, and chicken fibroblast cells. <b>2002</b> , 272, 199-208   | 50       |
| 1870 | Induction of tubulogenesis in telomerase-immortalized human microvascular endothelial cells by glioblastoma cells. <b>2002</b> , 273, 21-33   | 98       |
| 1869 | Induction of apoptosis in human replicative senescent fibroblasts. <b>2002</b> , 274, 92-9  | 35       |
| 1868 | Human dermal fibroblasts escape from the long-term phenocopy of senescence induced by psoralen photoactivation. <b>2002</b> , 274, 299-309  | 12       |
| 1867 | Induction of senescence-like state and suppression of telomerase activity through inhibition of HPV E6/E7 gene expression in cells immortalized by HPV16 DNA. <b>2002</b> , 277, 173-82   | 37       |
| 1866 | Telomerase rescues the expression levels of keratinocyte growth factor and insulin-like growth factor-II in senescent human fibroblasts. <b>2002</b> , 279, 321-9   | 19       |



1865 Animal Cell Technology: Basic & Applied Aspects. **2002**,

1864 A senescence program controlled by p53 and p16INK4a contributes to the outcome of cancer therapy. **2002**, 109, 335-46 875

1863 A role for mitochondria as potential regulators of cellular life span. **2002**, 294, 245-8 63

1862 High glucose-induced replicative senescence: point of no return and effect of telomerase. **2002**, 296, 93-101 75

1861 Bcl-2 can promote p53-dependent senescence versus apoptosis without affecting the G1/S transition. **2002**, 298, 282-8 38

1860 Stress-induced premature senescence in BJ and hTERT-BJ1 human foreskin fibroblasts. **2002**, 523, 157-62 62

1859 Polymerase eta and p53 jointly regulate cell survival, apoptosis and Mre11 recombination during S phase checkpoint arrest after UV irradiation. **2002**, 1, 41-57 22

1858 UVB-induced premature senescence of human diploid skin fibroblasts. **2002**, 34, 1331-9 68

1857 From the Hayflick mosaic to the mosaics of ageing. Role of stress-induced premature senescence in human ageing. **2002**, 34, 1415-29 70

1856 Clusterin/apolipoprotein J in human aging and cancer. **2002**, 34, 1430-48 305

1855 Molecular changes accompanying senescence and immortalization of cultured human mammary epithelial cells. **2002**, 34, 1382-94 82

1854 Cancer and aging: a model for the cancer promoting effects of the aging stroma. **2002**, 34, 1401-14 244

1853 Senescence and epigenetic dysregulation in cancer. **2002**, 34, 1475-90 47

1852 Tumor senescence as a determinant of drug response in vivo. **2002**, 5, 204-8 65

1851 Matrix-mediated cellular rejuvenation. **2002**, 21, 533-43 35

1850 Inhibition of telomerase activity by a distamycin derivative: effects on cell proliferation and induction of apoptosis in human cancer cells. **2002**, 38, 1792-801 37

1849 Cloning the AFURS1 gene which is up-regulated in senescent human parenchymal kidney cells. **2002**, 283, 271-5 12

1848 Possible role of ATM-dependent pathway in phosphorylation of p53 in senescent normal human diploid cells. **2002**, 1236, 371-373

|      |  |     |
|------|--|-----|
| 1847 | A G-quadruplex-interactive potent small-molecule inhibitor of telomerase exhibiting in vitro and in vivo antitumor activity. <b>2002</b> , 61, 1154-62                 | 246 |
| 1846 | Normalization of transfection efficiency using the beta-lactamase gene of the pGL3 luciferase vector in primary anterior pituitary cells. <b>2002</b> , 33, 326-8, 330 | 2   |
| 1845 | Endothelial cells maintain a reduced redox environment even as mitochondrial function declines. <b>2002</b> , 283, C1675-86  | 7   |
| 1844 | Cell death and aging--a question of cell type. <b>2002</b> , 2, 943-8  | 3   |
| 1843 | Molecular mechanisms of skin ageing. <b>2002</b> , 123, 801-10   | 387 |
| 1842 | Genetics of cellular senescence. <b>2002</b> , 123, 927-36   | 42  |
| 1841 | Replicative senescence and senescence-like state induced in cancer-derived cells. <b>2002</b> , 123, 1681-94   | 39  |
| 1840 | Stress-induced premature senescence and replicative senescence are different phenotypes, proteomic evidence. <b>2002</b> , 64, 1011-7                                  | 64  |
| 1839 | A novel mechanism of gene regulation and tumor suppression by the transcription factor FKHR. <b>2002</b> , 2, 81-91  | 344 |
| 1838 | Oxidative DNA damage as a marker of aging in WI-38 human fibroblasts. <b>2002</b> , 37, 647-56   | 70  |
| 1837 | Demethylation of classical satellite 2 and 3 DNA with chromosomal instability in senescent human fibroblasts. <b>2002</b> , 37, 1005-14                                | 52  |
| 1836 | Replicative senescence of human fibroblasts: the role of Ras-dependent signaling and oxidative stress. <b>2002</b> , 37, 1165-74                                       | 64  |
| 1835 | Psoralen plus UVA (PUVA) induced premature senescence as a model for stress-induced premature senescence. <b>2002</b> , 37, 1197-201                                   | 25  |
| 1834 | Signal transduction in H <sub>2</sub> O <sub>2</sub> -induced senescence-like phenotype in human diploid fibroblasts. <b>2002</b> , 33, 1334-46                        | 93  |
| 1833 | Quantification of epithelial cells in coculture with fibroblasts by fluorescence image analysis. <b>2002</b> , 49, 73-82   | 31  |
| 1832 | Differential maintenance and de novo methylating activity by three DNA methyltransferases in aging and immortalized fibroblasts. <b>2002</b> , 84, 324-34              | 140 |
| 1831 | Termination of lifespan of SV40-transformed human fibroblasts in crisis is due to apoptosis. <b>2002</b> , 190, 332-44   | 27  |
| 1830 | Does p53 affect organismal aging?. <b>2002</b> , 192, 23-33  | 131 |

|      |  |     |
|------|--|-----|
| 1829 | Oncogenic ras induces premature senescence in endothelial cells: role of p21(Cip1/Waf1). <b>2002</b> , 97, 117-24  | 33  |
| 1828 | Molecular regulation of melanocyte senescence. <b>2002</b> , 15, 242-50  | 58  |
| 1827 | The role of chondrocyte senescence in osteoarthritis. <b>2002</b> , 1, 57-65   | 289 |
| 1826 | The genetics of exceptional human longevity. <b>2002</b> , 50, 359-68  | 83  |
| 1825 | Retroviral transfer of the p16INK4a cDNA inhibits C6 glioma formation in Wistar rats. <b>2002</b> , 2, 2   | 10  |
| 1824 | 'Senescence-associated' beta-galactosidase activity in the upper gastrointestinal tract. <b>2002</b> , 196, 394-400  | 44  |
| 1823 | Markers of senescence?. <b>2002</b> , 196, 371-3   | 37  |
| 1822 | The effect of low oxygen tension on the in vitro life span of mouse epidermal keratinocytes. <b>2002</b> , 30, 817-821   | 4   |
| 1821 | In vitro acquired cellular senescence and aging-specific phenotype can be distinguished on the basis of specific mRNA expression. <b>2002</b> , 9, 862-4           | 12  |
| 1820 | Senescence-like changes induced by expression of p21(waf1/Cip1) in NIH3T3 cell line. <b>2002</b> , 12, 229-33  | 29  |
| 1819 | Telomeres, aging and cancer: in search of a happy ending. <b>2002</b> , 21, 503-11   | 192 |
| 1818 | Sequential extension of proliferative lifespan in human fibroblasts induced by over-expression of CDK4 or 6 and loss of p53 function. <b>2002</b> , 21, 4277-88    | 33  |
| 1817 | Regulation of PML-dependent transcriptional repression by pRB and low penetrance pRB mutants. <b>2002</b> , 21, 5557-65  | 16  |
| 1816 | Raf-1-induced growth arrest in human mammary epithelial cells is p16-independent and is overcome in immortal cells during conversion. <b>2002</b> , 21, 6328-39    | 77  |
| 1815 | Limits to lifespan. <b>2002</b> , 4, E25-7   | 56  |
| 1814 | Nucleophosmin regulates the stability and transcriptional activity of p53. <b>2002</b> , 4, 529-33   | 431 |
| 1813 | The t(8;21) fusion protein, AML1 ETO, specifically represses the transcription of the p14(ARF) tumor suppressor in acute myeloid leukemia. <b>2002</b> , 8, 743-50 | 224 |
| 1812 | Human papillomavirus type 32 does not display in vitro transforming properties. <b>2002</b> , 301, 157-64  | 18  |

|      |   |      |
|------|---|------|
| 1811 | Cellular senescence and tissue aging in vivo. <b>2002</b> , 57, B251-6  | 59   |
| 1810 | Sequential activation of the MEK-extracellular signal-regulated kinase and MKK3/6-p38 mitogen-activated protein kinase pathways mediates oncogenic ras-induced premature senescence. <b>2002</b> , 22, 3389-403 | 316  |
| 1809 | Free radicals in the physiological control of cell function. <b>2002</b> , 82, 47-95  | 6814 |
| 1808 | Stress-induced premature senescence: from biomarkers to likeliness of in vivo occurrence. <b>2002</b> , 3, 13-7   | 34   |
| 1807 | A single-stage mechanism controls replicative senescence through Sudden Senescence Syndrome. <b>2002</b> , 3, 213-22  | 8    |
| 1806 | Effect of BCL-2 down-regulation on cellular life span. <b>2002</b> , 3, 291-300   | 8    |
| 1805 | Aging, articular cartilage chondrocyte senescence and osteoarthritis. <b>2002</b> , 3, 257-64   | 234  |
| 1804 | Telomerase positive human diploid fibroblasts are resistant to replicative senescence but not premature senescence induced by chemical reagents. <b>2002</b> , 3, 365-72  | 11   |
| 1803 | Human SIR2 deacetylates p53 and antagonizes PML/p53-induced cellular senescence. <b>2002</b> , 21, 2383-96  | 676  |
| 1802 | Inhibition of p21-mediated ROS accumulation can rescue p21-induced senescence. <b>2002</b> , 21, 2180-8   | 245  |
| 1801 | Deconstructing PML-induced premature senescence. <b>2002</b> , 21, 3358-69  | 171  |
| 1800 | Different telomere damage signaling pathways in human and mouse cells. <b>2002</b> , 21, 4338-48  | 353  |
| 1799 | Evaluation of gene targeting by homologous recombination in ovine somatic cells. <b>2003</b> , 66, 115-25   | 16   |
| 1798 | The intra-individual diversity in senescence. <b>2003</b> , 4, 171-8  | 6    |
| 1797 | Telomere shortening impairs organ regeneration by inhibiting cell cycle re-entry of a subpopulation of cells. <b>2003</b> , 22, 4003-13   | 127  |
| 1796 | Permanent cell cycle exit in G2 phase after DNA damage in normal human fibroblasts. <b>2003</b> , 22, 3992-4002   | 107  |
| 1795 | Reversal of human cellular senescence: roles of the p53 and p16 pathways. <b>2003</b> , 22, 4212-22   | 910  |
| 1794 | Circulating endothelial progenitor cells, vascular function, and cardiovascular risk. <b>2003</b> , 348, 593-600  | 2912 |

|      |   |     |
|------|---|-----|
| 1793 | bFGF-induced alterations in cellular markers of senescence in growth-rescued fibroblasts from chronic venous ulcer and venous reflux patients. <b>2003</b> , 17, 239-44                                     | 10  |
| 1792 | Endoreplication and polyploidy in primary culture of rat hepatic stellate cells. <b>2003</b> , 313, 301-11  | 16  |
| 1791 | Cellular senescence and apoptosis: how cellular responses might influence aging phenotypes. <b>2003</b> , 38, 5-11  | 170 |
| 1790 | Cellular senescence in human keratinocytes: unchanged proteolytic capacity and increased protein load. <b>2003</b> , 38, 619-29   | 21  |
| 1789 | The zebrafish as a vertebrate model of functional aging and very gradual senescence. <b>2003</b> , 38, 777-86   | 149 |
| 1788 | Association of increased autophagic inclusions labeled for beta-galactosidase with fibroblastic aging. <b>2003</b> , 38, 887-95   | 103 |
| 1787 | Icodextrin-induced lipid peroxidation disrupts the mesothelial cell cycle engine. <b>2003</b> , 34, 419-28  | 28  |
| 1786 | Hematopoietic senescence is postponed and hematopoietic stem cell function is enhanced by dietary restriction. <b>2003</b> , 31, 1097-103   | 84  |
| 1785 | HDTIC-1 and HDTIC-2, two compounds extracted from Astragali Radix, delay replicative senescence of human diploid fibroblasts. <b>2003</b> , 124, 1025-34  | 39  |
| 1784 | Senescence-associated cell death of human endothelial cells: the role of oxidative stress. <b>2003</b> , 38, 1149-60  | 102 |
| 1783 | TGF-beta cytokines increase senescence-associated beta-galactosidase activity in human prostate basal cells by supporting differentiation processes, but not cellular senescence. <b>2003</b> , 38, 1179-88 | 52  |
| 1782 | Can we say that senescent cells cause ageing?. <b>2003</b> , 38, 1319-26  | 27  |
| 1781 | Replicative senescence and the art of counting. <b>2003</b> , 38, 1259-64   | 57  |
| 1780 | Using cell transplantation to investigate genes involved in aging. <b>2003</b> , 124, 79-84   | 2   |
| 1779 | Models of accelerated ageing can be informative about the molecular mechanisms of ageing and/or age-related pathology. <b>2003</b> , 124, 581-7   | 42  |
| 1778 | Alteration of keratinocyte differentiation and senescence by the tumor promoter dioxin. <b>2003</b> , 192, 131-45   | 34  |
| 1777 | Age-dependent variations of human and rat colon myofibroblasts in culture: Influence on their functional interactions with colon cancer cells. <b>2003</b> , 104, 28-35                                     | 17  |
| 1776 | hMad4, c-Myc endogenous inhibitor, induces a replicative senescence-like state when overexpressed in human fibroblasts. <b>2003</b> , 89, 576-88  | 9   |

|      |  |     |
|------|--|-----|
| 1775 | IN1 expression induces cell cycle arrest and markers of senescence in malignant rhabdoid tumor cells. <b>2003</b> , 194, 303-13                | 47  |
| 1774 | Primary culture model of peroxisome proliferator-activated receptor gamma activity in prostate cancer cells. <b>2003</b> , 196, 131-43         | 40  |
| 1773 | Apoptosis in primary lymphoid organs with aging. <b>2003</b> , 62, 524-39  | 19  |
| 1772 | A positive role of phosphatidylinositol 3-kinase in aging phenotype expression in cultured human diploid fibroblasts. <b>2003</b> , 36, 203-19 | 8   |
| 1771 | The relationship between aging and carcinogenesis: a critical appraisal. <b>2003</b> , 45, 277-304   | 75  |
| 1770 | Mitogen-activated protein kinase p38 defines the common senescence-signalling pathway. <b>2003</b> , 8, 131-44                                 | 288 |
| 1769 | Abstracts of the British Society for Matrix Biology Meeting. Norwich, 3-4 September 2001. <b>2003</b> , 84, A1-21                              |     |
| 1768 | Immortalized olfactory ensheathing glia promote axonal regeneration of rat retinal ganglion neurons. <b>2003</b> , 85, 861-71                  | 37  |
| 1767 | Involvement of the INK4a/Arf gene locus in senescence. <b>2003</b> , 2, 145-50   | 91  |
| 1766 | Cell senescence in rat kidneys in vivo increases with growth and age despite lack of telomere shortening. <b>2003</b> , 63, 2134-43            | 147 |
| 1765 | Cellular senescence in the pathogenesis of benign prostatic hyperplasia. <b>2003</b> , 55, 30-8  | 120 |
| 1764 | Identification of a . <b>2003</b> , 22, 281-90   | 9   |
| 1763 | Caspase inhibition switches doxorubicin-induced apoptosis to senescence. <b>2003</b> , 22, 2805-11   | 149 |
| 1762 | BRCA1 shifts p53-mediated cellular outcomes towards irreversible growth arrest. <b>2003</b> , 22, 3749-58                                      | 41  |
| 1761 | Epigenetic silencing of multiple interferon pathway genes after cellular immortalization. <b>2003</b> , 22, 4118-27                            | 112 |
| 1760 | Erosion of the telomeric single-strand overhang at replicative senescence. <b>2003</b> , 33, 492-6   | 272 |
| 1759 | Senescence, apoptosis and therapy--cutting the lifelines of cancer. <b>2003</b> , 3, 286-95  | 252 |
| 1758 | Cancer and ageing: rival demons?. <b>2003</b> , 3, 339-49  | 398 |

|      |   |     |
|------|---|-----|
| 1757 | Opinion: Comparative biology of mouse versus human cells: modelling human cancer in mice. <b>2003</b> , 3, 952-9  | 441 |
| 1756 | A new in vitro model of venous hypertension: the effect of pressure on dermal fibroblasts. <b>2003</b> , 38, 1099-105   | 11  |
| 1755 | Analysis of tumor suppressor gene-induced senescence. <b>2003</b> , 223, 155-72   | 7   |
| 1754 | Telomerase-immortalized sheep fibroblasts can be reprogrammed by nuclear transfer to undergo early development. <b>2003</b> , 69, 15-21                                     | 38  |
| 1753 | Telomeres shorten with age in rat cerebellum and cortex in vivo. <b>2003</b> , 6, 299-308   | 70  |
| 1752 | Comparison of multi-lineage cells from human adipose tissue and bone marrow. <b>2003</b> , 174, 101-9   | 970 |
| 1751 | Telomerase reconstitution immortalizes human fetal hepatocytes without disrupting their differentiation potential. <b>2003</b> , 124, 432-44                                | 154 |
| 1750 | From Weismann's theory to present day gerontology 1889-2003. <b>2003</b> , 51, 550-62   | 1   |
| 1749 | In vitro senescence occurring in normal human endothelial cells can be rescued by ectopic telomerase activity. <b>2003</b> , 35, 2483-5                                     | 18  |
| 1748 | Successful immortalization of endometrial glandular cells with normal structural and functional characteristics. <b>2003</b> , 163, 2259-69                                 | 131 |
| 1747 | Role of INK4a/Arf locus-encoded senescent checkpoints activated in normal and psoriatic keratinocytes. <b>2003</b> , 162, 161-70  | 33  |
| 1746 | Cellular dysfunction in the diabetic fibroblast: impairment in migration, vascular endothelial growth factor production, and response to hypoxia. <b>2003</b> , 162, 303-12 | 366 |
| 1745 | Telomere shortening and cellular senescence in a model of chronic renal allograft rejection. <b>2003</b> , 162, 1305-12   | 78  |
| 1744 | Aging is associated with decreased maximal life span and accelerated senescence of bone marrow stromal cells. <b>2003</b> , 33, 919-26                                      | 933 |
| 1743 | Aging-associated increase of gelsolin for apoptosis resistance. <b>2003</b> , 312, 1335-41  | 26  |
| 1742 | Role of IFI 16, a member of the interferon-inducible p200-protein family, in prostate epithelial cellular senescence. <b>2003</b> , 22, 4831-40                             | 94  |
| 1741 | Replicative senescence of activated human hepatic stellate cells is accompanied by a pronounced inflammatory but less fibrogenic phenotype. <b>2003</b> , 37, 653-64        | 147 |
| 1740 | The role of replicative senescence in chronic allograft nephropathy. <b>2003</b> , 34, 924-8  | 48  |

|      |  |      |
|------|--|------|
| 1739 | Rb-mediated heterochromatin formation and silencing of E2F target genes during cellular senescence. <b>2003</b> , 113, 703-16  | 1694 |
| 1738 | Multiple tumor suppressor pathways negatively regulate telomerase. <b>2003</b> , 113, 881-9  | 359  |
| 1737 | Telomerase maintains telomere structure in normal human cells. <b>2003</b> , 114, 241-53   | 613  |
| 1736 | A human TERT C-terminal polypeptide sensitizes HeLa cells to H <sub>2</sub> O <sub>2</sub> -induced senescence without affecting telomerase enzymatic activity. <b>2003</b> , 301, 627-32  | 18   |
| 1735 | Bcl-2 promotes premature senescence induced by oncogenic Ras. <b>2003</b> , 303, 800-7   | 36   |
| 1734 | An analysis of replicative senescence in dermal fibroblasts derived from chronic leg wounds predicts that telomerase therapy would fail to reverse their disease-specific cellular and proteolytic phenotype. <b>2003</b> , 283, 22-35 | 36   |
| 1733 | Immortalisation of human ovarian surface epithelium with telomerase and temperature-sensitive SV40 large T antigen. <b>2003</b> , 288, 390-402   | 51   |
| 1732 | Novel mechanisms of sublethal oxidant toxicity: induction of premature senescence in human fibroblasts confers tumor promoter activity. <b>2003</b> , 290, 38-48   | 46   |
| 1731 | Cellular aging-dependent decrease in cholesterol in membrane microdomains of human diploid fibroblasts. <b>2003</b> , 290, 381-90  | 17   |
| 1730 | Human epithelial cell immortalization as a step in carcinogenesis. <b>2003</b> , 194, 199-208  | 62   |
| 1729 | Deletion of the telomerase reverse transcriptase gene and haploinsufficiency of telomere maintenance in Cri du chat syndrome. <b>2003</b> , 72, 940-8  | 51   |
| 1728 | Chemotherapy response and resistance. <b>2003</b> , 13, 90-6   | 43   |
| 1727 | Chemopreventive agents induce a senescence-like phenotype in rat mammary tumours. <b>2003</b> , 39, 230-9  | 30   |
| 1726 | Proteolyzed matrix as a template for the regulation of tumor progression. <b>2003</b> , 57, 223-30   | 49   |
| 1725 | Increased ezrin expression and activation by CDK5 coincident with acquisition of the senescent phenotype. <b>2003</b> , 11, 1163-76  | 62   |
| 1724 | HMG-CoA reductase inhibitors reduce senescence and increase proliferation of endothelial progenitor cells via regulation of cell cycle regulatory genes. <b>2003</b> , 92, 1049-55   | 345  |
| 1723 | Identification of senescence in cancer cells. <b>2004</b> , 88, 231-8  | 2    |
| 1722 | Telomerase as a novel and potentially selective target for cancer chemotherapy. <b>2003</b> , 35, 466-75   | 18   |



|      |  |     |
|------|--|-----|
| 1721 | Decreased tumorigenicity in vivo when transforming growth factor beta treatment causes cancer cell senescence. <b>2003</b> , 67, 815-21  | 14  |
| 1720 | Induction of a senescent-like phenotype does not confer the ability of bovine immortal cells to support the development of nuclear transfer embryos. <b>2003</b> , 69, 301-9   | 76  |
| 1719 | Telomere-based proliferative lifespan barriers in Werner-syndrome fibroblasts involve both p53-dependent and p53-independent mechanisms. <b>2003</b> , 116, 1349-57  | 54  |
| 1718 | A novel transcriptional inhibitory element differentially regulates the cyclin D1 gene in senescent cells. <b>2003</b> , 278, 7510-9   | 8   |
| 1717 | Interleukin-1 receptor antagonist (IL-1RN) genotype modulates the replicative capacity of human endothelial cells. <b>2003</b> , 92, 1285-7  | 25  |
| 1716 | Evidence that high telomerase activity may induce a senescent-like growth arrest in human fibroblasts. <b>2003</b> , 278, 7692-8   | 39  |
| 1715 | Increased expression of the Huntingtin interacting protein-1 gene in cells from Hutchinson Gilford Syndrome (Progeria) patients and aged donors. <b>2003</b> , 58, B873-8  | 8   |
| 1714 | Limited capacity of the nuclear matrix to bind telomere repeat binding factor TRF1 may restrict the proliferation of mortal human fibroblasts. <b>2004</b> , 13, 285-93  | 13  |
| 1713 | Bleomycin induces cellular senescence in alveolar epithelial cells. <b>2003</b> , 22, 436-43   | 109 |
| 1712 | The E6 and E7 proteins of the cutaneous human papillomavirus type 38 display transforming properties. <b>2003</b> , 77, 2195-206   | 156 |
| 1711 | Complex II defect via down-regulation of iron-sulfur subunit induces mitochondrial dysfunction and cell cycle delay in iron chelation-induced senescence-associated growth arrest. <b>2003</b> , 278, 51577-86         | 66  |
| 1710 | Telomere length and the expression of natural telomeric genes in human fibroblasts. <b>2003</b> , 12, 1329-36  | 33  |
| 1709 | RNA interference of human papillomavirus type 18 E6 and E7 induces senescence in HeLa cells. <b>2003</b> , 77, 6066-9  | 173 |
| 1708 | Immortalization of bovine capillary endothelial cells by hTERT alone involves inactivation of endogenous p16INK4A/pRb. <b>2003</b> , 17, 764-6   | 40  |
| 1707 | Ras induces vascular smooth muscle cell senescence and inflammation in human atherosclerosis. <b>2003</b> , 108, 2264-9  | 160 |
| 1706 | Influence of induced reactive oxygen species in p53-mediated cell fate decisions. <b>2003</b> , 23, 8576-85  | 269 |
| 1705 | Central role of the proteasome in senescence and survival of human fibroblasts: induction of a senescence-like phenotype upon its inhibition and resistance to stress upon its activation. <b>2003</b> , 278, 28026-37 | 249 |
| 1704 | Dynamics of telomere erosion in transformed and non-transformed avian cells in vitro. <b>2003</b> , 102, 318-25  | 27  |

|      |   |      |     |
|------|---|------|-----|
| 1703 | Increased AMP:ATP ratio and AMP-activated protein kinase activity during cellular senescence linked to reduced HuR function. <b>2003</b> , 278, 27016-23  |      | 190 |
| 1702 | Constitutive activation of rac1 results in mitochondrial oxidative stress and induces premature endothelial cell senescence. <b>2003</b> , 23, e1-6   |      | 37  |
| 1701 | Review of the Gerontology Literature. <b>2003</b> , 6, 337-339  |      |     |
| 1700 | Effects of PTX1 expression on growth and tumorigenicity of the prostate cancer cell line PC-3. <b>2003</b> , 22, 469-74   |      | 10  |
| 1699 | Telomerase alone extends the replicative life span of human skeletal muscle cells without compromising genomic stability. <b>2003</b> , 14, 1473-87   |      | 23  |
| 1698 | Endogenous human papillomavirus E6 and E7 proteins differentially regulate proliferation, senescence, and apoptosis in HeLa cervical carcinoma cells. <b>2003</b> , 77, 1551-63   |      | 262 |
| 1697 | Cancer Cell Culture. <b>2003</b> ,  |      | 8   |
| 1696 | Temozolomide induces apoptosis and senescence in glioma cells cultured as multicellular spheroids. <b>2003</b> , 88, 463-9  |      | 105 |
| 1695 | Senescence, aging, and malignant transformation mediated by p53 in mice lacking the Brca1 full-length isoform. <b>2003</b> , 17, 201-13   |      | 232 |
| 1694 | Werner syndrome protein limits MYC-induced cellular senescence. <b>2003</b> , 17, 1569-74   |      | 131 |
| 1693 | Paternal and maternal genomes confer opposite effects on proliferation, cell-cycle length, senescence, and tumor formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 13344-9 | 11.5 | 74  |
| 1692 | Transcriptome signature of irreversible senescence in human papillomavirus-positive cervical cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 7093-8                   | 11.5 | 67  |
| 1691 | Inhibition of c-Myc oncoprotein limits the growth of human melanoma cells by inducing cellular crisis. <b>2003</b> , 278, 35693-701   |      | 30  |
| 1690 | Control of the replicative life span of human fibroblasts by p16 and the polycomb protein Bmi-1. <b>2003</b> , 23, 389-401  |      | 360 |
| 1689 | Reversal of senescence in mouse fibroblasts through lentiviral suppression of p53. <b>2003</b> , 278, 11731-4   |      | 173 |
| 1688 | The p38 mitogen-activated protein kinase pathway links the DNA mismatch repair system to the G2 checkpoint and to resistance to chemotherapeutic DNA-methylating agents. <b>2003</b> , 23, 8306-15  |      | 113 |
| 1687 | Invited review: Theories of aging. <b>2003</b> , 95, 1706-16  |      | 339 |
| 1686 | The ZO-1-associated Y-box factor ZONAB regulates epithelial cell proliferation and cell density. <b>2003</b> , 160, 423-32  |      | 300 |

|      |   |      |     |
|------|---|------|-----|
| 1685 | Transcriptional coactivator Cited2 induces Bmi1 and Mel18 and controls fibroblast proliferation via Ink4a/ARF. <b>2003</b> , 23, 7658-66  |      | 73  |
| 1684 | Evidence that exposure of the telomere 3' overhang sequence induces senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 527-31  | 11.5 | 138 |
| 1683 | Senescence-specific gene expression fingerprints reveal cell-type-dependent physical clustering of up-regulated chromosomal loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 3251-6                      | 11.5 | 165 |
| 1682 | Haploinsufficiency of hTERT Leads to Telomere Dysfunction and Radiosensitivity in Human Cancer Cells. <b>2003</b> , 2, 678-682  |      | 12  |
| 1681 | Metabolic analysis of senescent human fibroblasts reveals a role for AMP in cellular senescence. <b>2003</b> , 376, 403-11  |      | 182 |
| 1680 | Challenging but essential targets for genuine anti-ageing drugs. <b>2003</b> , 7, 1-5   |      | 12  |
| 1679 | Age-dependent decline of in vitro migration (basal and stimulated by IGF-1 or insulin) of human vascular smooth muscle cells. <b>2003</b> , 58, B1074-7   |      | 29  |
| 1678 | Senescence of renal cells: molecular basis and clinical implications. <b>2003</b> , 18, 2474-8  |      | 75  |
| 1677 | Wound repair in aging. A review. <b>2003</b> , 78, 217-37   |      | 11  |
| 1676 | Induction of senescent-like growth arrest as a new target in anticancer treatment. <b>2003</b> , 3, 153-9   |      | 13  |
| 1675 | Author's Response to Commentary: Cell Senescence: An Evaluation of Replicative Senescence in Culture as a Model for Aging In Situ. <b>2003</b> , 58, B779-B781  |      | 1   |
| 1674 | Daunorubicin-induced variations in gene transcription: commitment to proliferation arrest, senescence and apoptosis. <b>2003</b> , 372, 703-11  |      | 46  |
| 1673 | Bcl-2 activates a programme of premature senescence in human carcinoma cells. <b>2003</b> , 375, 263-74   |      | 51  |
| 1672 | Antisense-mediated loss of calcium homeostasis endoplasmic reticulum protein (CHERP; ERPROT213-21) impairs Ca <sup>2+</sup> mobilization, nuclear factor of activated T-cells (NFAT) activation and cell proliferation in Jurkat T-lymphocytes. <b>2003</b> , 373, 133-43 |      | 16  |
| 1671 | Apoptosis and Cell Senescence. 153-192  |      | 2   |
| 1670 | Searching for genes involved in arteriosclerosis: proteomic analysis of cultured human umbilical vein endothelial cells undergoing replicative senescence. <b>2003</b> , 28, 495-503  |      | 35  |
| 1669 | . <b>2003</b> ,   |      | 3   |
| 1668 | Aging of stromal-derived human breast fibroblasts might contribute to breast cancer progression. <b>2003</b> , 89, 393-404  |      | 63  |

|      |   |     |
|------|---|-----|
| 1667 | Low angiogenic potency induced by the implantation of ex vivo expanded CD117(+) stem cells. <b>2004</b> , 286, H1236-41   | 23  |
| 1666 | A crucial role of caspase-3 in osteogenic differentiation of bone marrow stromal stem cells. <b>2004</b> , 114, 1704-13   | 195 |
| 1665 | Nuclear reorganization of mammalian DNA synthesis prior to cell cycle exit. <b>2004</b> , 24, 595-607   | 34  |
| 1664 | BRG1 controls the activity of the retinoblastoma protein via regulation of p21CIP1/WAF1/SDI. <b>2004</b> , 24, 1188-99  | 104 |
| 1663 | Proteasome inhibitors induce changes in chromatin structure characteristic of senescent human fibroblasts. <b>2004</b> , 68, 2395-7   | 12  |
| 1662 | Expression and significance of integrin-linked kinase in cultured cells, normal tissue, and diseased tissue of aging rat kidneys. <b>2004</b> , 59, 984-96                  | 22  |
| 1661 | The histopathology of regeneration in massive hepatic necrosis. <b>2004</b> , 24, 49-64   | 51  |
| 1660 | Induction of Tumour Cell Senescence: A New Strategy in Anticancer Treatment. <b>2004</b> , 1, 369-379   | 1   |
| 1659 | Stochastic variation in telomere shortening rate causes heterogeneity of human fibroblast replicative life span. <b>2004</b> , 279, 17826-33                                | 109 |
| 1658 | Cigarette smoke induces senescence in alveolar epithelial cells. <b>2004</b> , 31, 643-9  | 168 |
| 1657 | Activated oncogenes promote and cooperate with chromosomal instability for neoplastic transformation. <b>2004</b> , 18, 1317-30   | 89  |
| 1656 | Disappearance of the telomere dysfunction-induced stress response in fully senescent cells. <b>2004</b> , 64, 3748-52   | 63  |
| 1655 | Growth retardation and premature aging phenotypes in mice with disruption of the SNF2-like gene, PASG. <b>2004</b> , 18, 1035-46  | 143 |
| 1654 | A loss of insulin-like growth factor-2 imprinting is modulated by CCCTC-binding factor down-regulation at senescence in human epithelial cells. <b>2004</b> , 279, 52218-26 | 33  |
| 1653 | Normal human fibroblasts are resistant to RAS-induced senescence. <b>2004</b> , 24, 2842-52   | 94  |
| 1652 | Research Article: Beta-galactosidase staining as a marker of cells enduring stress. <b>2004</b> , 75, 139-146   | 3   |
| 1651 | Senescence-initiated reversal of drug resistance: specific role of cathepsin L. <b>2004</b> , 64, 1773-80   | 58  |
| 1650 | Involvement of Rel/nuclear factor-kappaB transcription factors in keratinocyte senescence. <b>2004</b> , 64, 472-81   | 86  |

|      |  |          |
|------|--|----------|
| 1649 | Transcriptional control of SV40 T-antigen expression allows a complete reversion of immortalization. <b>2004</b> , 32, 5529-38   | 50       |
| 1648 | The role of replicative senescence in cancer and human ageing: utility (or otherwise) of murine models. <b>2004</b> , 105, 455-63  | 14       |
| 1647 | p27kip1 Antisense-induced proliferative activity of rat corneal endothelial cells. <b>2004</b> , 45, 1763-70   | 17       |
| 1646 | Modulation of mammalian life span by the short isoform of p53. <b>2004</b> , 18, 306-19  | 444      |
| 1645 | Identification of a novel telomerase repressor that interacts with the human papillomavirus type-16 E6/E6-AP complex. <b>2004</b> , 18, 2269-82  | 181      |
| 1644 | Smurf2 up-regulation activates telomere-dependent senescence. <b>2004</b> , 18, 3028-40  | 77       |
| 1643 | Stress-induced premature senescence in hTERT-expressing ataxia telangiectasia fibroblasts. <b>2004</b> , 279, 2030-7   | 58       |
| 1642 | TIN2 mediates functions of TRF2 at human telomeres. <b>2004</b> , 279, 43799-804   | 148      |
| 1641 | Endogenous nitric oxide synthesis inhibitor asymmetric dimethyl L-arginine accelerates endothelial cell senescence. <b>2004</b> , 24, 1816-22  | 118      |
| 1640 | Isolation, Survival, Proliferation, and Differentiation of Human Neural Stem Cells. <b>2003</b> , 271-298  |          |
| 1639 | Retinoic acid delays keratinocyte senescence by suppression of $\beta$ -h3 and p16 expression and induction of telomerase activity. <b>2004</b> , 13, 25   |          |
| 1638 | Cerivastatin demonstrates enhanced antitumor activity against human breast cancer cell lines when used in combination with doxorubicin or cisplatin. <b>2004</b> , 24, 1149                                | 6        |
| 1637 | Differential Oncogenic Ras Signaling and Senescence in Tumor Cells. <b>2004</b> , 3, 1199-1205   | 29       |
| 1636 | P16INK4a is required for hSNF5 chromatin remodeler-induced cellular senescence in malignant rhabdoid tumor cells. <b>2004</b> , 279, 3807-16   | 124      |
| 1635 | Loss of proliferative capacity and induction of senescence in oxidatively stressed human fibroblasts. <b>2004</b> , 279, 49439-46  | 113      |
| 1634 | Terminal osteoblast differentiation, mediated by runx2 and p27KIP1, is disrupted in osteosarcoma. <b>2004</b> , 167, 925-34  | 180      |
| 1633 | Cellular senescence requires CDK5 repression of Rac1 activity. <b>2004</b> , 24, 2808-19   | 54       |
| 1632 | DNA end joining becomes less efficient and more error-prone during cellular senescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 7624-9 | 11.5 216 |

|      |   |     |
|------|---|-----|
| 1631 | PEA-15 is inhibited by adenovirus E1A and plays a role in ERK nuclear export and Ras-induced senescence. <b>2004</b> , 279, 46802-9   | 46  |
| 1630 | Protein kinase C delta blocks immediate-early gene expression in senescent cells by inactivating serum response factor. <b>2004</b> , 24, 7298-311  | 26  |
| 1629 | Mitogen stimulation cooperates with telomere shortening to activate DNA damage responses and senescence signaling. <b>2004</b> , 24, 5459-74  | 72  |
| 1628 | High intensity ras signaling induces premature senescence by activating p38 pathway in primary human fibroblasts. <b>2004</b> , 279, 1050-9   | 135 |
| 1627 | Inactivation of p16INK4a, with retention of pRB and p53/p21cip1 function, in human MRC5 fibroblasts that overcome a telomere-independent crisis during immortalization. <b>2004</b> , 279, 43634-45 | 30  |
| 1626 | Regulation of cellular senescence and p16(INK4a) expression by Id1 and E47 proteins in human diploid fibroblast. <b>2004</b> , 279, 31524-32  | 64  |
| 1625 | Involvement of mitogen-activated protein kinases and p21Waf1 in hydroxyurea-induced G1 arrest and senescence of McA-RH7777 rat hepatoma cell line. <b>2004</b> , 36, 493-8                          | 6   |
| 1624 | Cellular characteristics of primary and immortal canine embryonic fibroblast cells. <b>2004</b> , 36, 325-35  | 8   |
| 1623 | Age-related decline in expression of calnexin. <b>2004</b> , 36, 499-503  | 16  |
| 1622 | Repression of the human papillomavirus E6 gene initiates p53-dependent, telomerase-independent senescence and apoptosis in HeLa cervical carcinoma cells. <b>2004</b> , 78, 4063-73                 | 85  |
| 1621 | Nuclear accumulation of globular actin as a cellular senescence marker. <b>2004</b> , 64, 572-80  | 55  |
| 1620 | Bcl-xL and E1B-19K proteins inhibit p53-induced irreversible growth arrest and senescence by preventing reactive oxygen species-dependent p38 activation. <b>2004</b> , 279, 17765-71               | 49  |
| 1619 | Recovery of function in osteoarthritic chondrocytes induced by p16INK4a-specific siRNA in vitro. <b>2004</b> , 43, 555-68   | 73  |
| 1618 | Prevention of critical telomere shortening by oestradiol in human normal hepatic cultured cells and carbon tetrachloride induced rat liver fibrosis. <b>2004</b> , 53, 1001-9                       | 34  |
| 1617 | Effects of oxidative damage and telomerase activity on human articular cartilage chondrocyte senescence. <b>2004</b> , 59, 324-37   | 90  |
| 1616 | Modulation of NADP(+)-dependent isocitrate dehydrogenase in aging. <b>2004</b> , 9, 271-7   | 16  |
| 1615 | Dual role of MEK/ERK signaling in senescence and transformation of intestinal epithelial cells. <b>2004</b> , 286, G736-46  | 51  |
| 1614 | Dioxin-induced immortalization of normal human keratinocytes and silencing of p53 and p16INK4a. <b>2004</b> , 279, 27187-93   | 67  |

|      |   |     |
|------|---|-----|
| 1613 | Oxidized low-density lipoprotein induces endothelial progenitor cell senescence, leading to cellular dysfunction. <b>2004</b> , 31, 407-13                              | 175 |
| 1612 | Influence of tissue origins and external microenvironment on porcine foetal fibroblast growth, proliferative life span and genome stability. <b>2004</b> , 37, 255-66   | 20  |
| 1611 | Telomere attrition and accumulation of senescent cells in cultured human endothelial cells. <b>2004</b> , 37, 317-24  | 33  |
| 1610 | Nuclear accumulation of glycogen synthase kinase-3 during replicative senescence of human fibroblasts. <b>2004</b> , 3, 309-17  | 43  |
| 1609 | The pathobiology of chronic allograft nephropathy: immune-mediated damage and accelerated aging. <b>2004</b> , 65, 1556-9   | 39  |
| 1608 | Immortalization of human dental papilla, dental pulp, periodontal ligament cells and gingival fibroblasts by telomerase reverse transcriptase. <b>2004</b> , 33, 417-23 | 69  |
| 1607 | Expression of psoriasis-associated fatty acid-binding protein in senescent human dermal microvascular endothelial cells. <b>2004</b> , 13, 543-50                       | 10  |
| 1606 | 17beta-estradiol stimulates the growth of human keratinocytes by inducing cyclin D2 expression. <b>2004</b> , 123, 319-28   | 112 |
| 1605 | Senescing human cells and ageing mice accumulate DNA lesions with unreparable double-strand breaks. <b>2004</b> , 6, 168-70   | 601 |
| 1604 | MKK7 couples stress signalling to G2/M cell-cycle progression and cellular senescence. <b>2004</b> , 6, 215-26  | 120 |
| 1603 | The translation factor eIF-4E promotes tumor formation and cooperates with c-Myc in lymphomagenesis. <b>2004</b> , 10, 484-6  | 494 |
| 1602 | Pathways of apoptotic and non-apoptotic death in tumour cells. <b>2004</b> , 4, 592-603   | 851 |
| 1601 | E2FBP1/hDril1 modulates cell growth through downregulation of promyelocytic leukemia bodies. <b>2004</b> , 11, 747-59   | 18  |
| 1600 | DNA damage checkpoint kinase Chk2 triggers replicative senescence. <b>2004</b> , 23, 2554-63  | 143 |
| 1599 | Inhibition of oncogenic transformation by mammalian Lin-9, a pRB-associated protein. <b>2004</b> , 23, 4627-38  | 54  |
| 1598 | Human fibroblasts require the Rb family of tumor suppressors, but not p53, for PML-induced senescence. <b>2004</b> , 23, 91-9   | 80  |
| 1597 | p53 disruption profoundly alters the response of human glioblastoma cells to DNA topoisomerase I inhibition. <b>2004</b> , 23, 1283-90                                  | 63  |
| 1596 | Hallmarks of senescence in carcinogenesis and cancer therapy. <b>2004</b> , 23, 2919-33   | 420 |

|      |  |     |
|------|--|-----|
| 1595 | Telomere erosion triggers growth arrest but not cell death in human cancer cells retaining wild-type p53: implications for antitelomerase therapy. <b>2004</b> , 23, 4136-45 | 15  |
| 1594 | HPV E6 proteins interact with specific PML isoforms and allow distinctions to be made between different POD structures. <b>2004</b> , 23, 4662-72                            | 29  |
| 1593 | Activated p53 suppresses the histone methyltransferase EZH2 gene. <b>2004</b> , 23, 5759-69  | 164 |
| 1592 | Cre-mediated reversible immortalization of human renal proximal tubular epithelial cells. <b>2004</b> , 23, 5950-7   | 24  |
| 1591 | Role of IFI 16 in cellular senescence of human fibroblasts. <b>2004</b> , 23, 6209-17  | 58  |
| 1590 | Disruption of E2F signaling suppresses the INK4a-induced proliferative defect in M33-deficient mice. <b>2004</b> , 23, 7660-8  | 29  |
| 1589 | Tumor necrosis factor alpha induces senescence and chromosomal instability in human leukemic cells. <b>2004</b> , 23, 7507-16  | 53  |
| 1588 | Molecular signature of oncogenic ras-induced senescence. <b>2004</b> , 23, 9238-46   | 97  |
| 1587 | Regulation of cellular response to oncogenic and oxidative stress by Seladin-1. <b>2004</b> , 432, 640-5   | 164 |
| 1586 | The development of larger cells that spontaneously escape senescence--a step during the immortalization of a human cancer cell line. <b>2004</b> , 8, 93-101                 | 2   |
| 1585 | Transition to an irreversible state of senescence in HeLa cells arrested by repression of HPV E6 and E7 genes. <b>2004</b> , 125, 31-40                                      | 20  |
| 1584 | Enhancement of Fas-mediated apoptosis in ageing human keratinocytes. <b>2004</b> , 125, 237-49   | 14  |
| 1583 | Histone deacetylases, HDAC1 and HSIR2, act as a negative regulator of ageing through p53 in human gingival fibroblast. <b>2004</b> , 125, 351-7                              | 6   |
| 1582 | Senescent fibroblasts resist apoptosis by downregulating caspase-3. <b>2004</b> , 125, 777-83  | 92  |
| 1581 | Replicative senescence: a critical review. <b>2004</b> , 125, 827-48   | 201 |
| 1580 | Endogenous oncogenic K-ras(G12D) stimulates proliferation and widespread neoplastic and developmental defects. <b>2004</b> , 5, 375-87                                       | 612 |
| 1579 | The oncogenic fusion protein RUNX1-CBFA2T1 supports proliferation and inhibits senescence in t(8;21)-positive leukaemic cells. <b>2004</b> , 4, 44                           | 44  |
| 1578 | Significant role for p16INK4a in p53-independent telomere-directed senescence. <b>2004</b> , 14, 2302-8  | 177 |



|      |  |     |
|------|--|-----|
| 1577 | Loss of hPot1 function leads to telomere instability and a cut-like phenotype. <b>2004</b> , 14, 2264-70   | 116 |
| 1576 | Growth, differentiation and senescence of normal human urothelium in an organ-like culture. <b>2004</b> , 45, 799-805  | 24  |
| 1575 | AT-hook proteins stimulate induction of senescence markers triggered by 5-bromodeoxyuridine in mammalian cells. <b>2004</b> , 39, 173-9  | 18  |
| 1574 | mRNA level of alpha-2-macroglobulin as an aging biomarker of human fibroblasts in culture. <b>2004</b> , 39, 415-21  | 11  |
| 1573 | Proteasome inhibition increases HuR level, restores heat-inducible HSP72 expression and thermotolerance in WI-38 senescent human fibroblasts. <b>2004</b> , 39, 423-32             | 19  |
| 1572 | Autolysosomes accumulate during in vitro CD8+ T-lymphocyte aging and may participate in induced death sensitization of senescent cells. <b>2004</b> , 39, 789-800                  | 52  |
| 1571 | Differential regulation of apoptotic cell death in senescent human cells. <b>2004</b> , 39, 1713-21  | 87  |
| 1570 | Exploration of replicative senescence-associated genes in human dermal fibroblasts by cDNA microarray technology. <b>2004</b> , 39, 1369-78  | 98  |
| 1569 | Glucose-6-phosphate dehydrogenase-deficient cells show an increased propensity for oxidant-induced senescence. <b>2004</b> , 36, 580-91  | 44  |
| 1568 | Cytotoxicity, DNA strand breakage and DNA-protein crosslinking by a novel transplatinum compound in human A2780 ovarian and MCF-7 breast carcinoma cells. <b>2004</b> , 68, 857-66 | 55  |
| 1567 | Influence of p53 and caspase 3 activity on cell death and senescence in response to methotrexate in the breast tumor cell. <b>2004</b> , 68, 1699-708                              | 42  |
| 1566 | Mechanisms of cellular senescence in human and mouse cells. <b>2004</b> , 5, 1-10  | 244 |
| 1565 | Proteasome inhibition induces a senescence-like phenotype in primary human fibroblasts cultures. <b>2004</b> , 5, 55-61  | 64  |
| 1564 | The immune system in the elderly: activation-induced and damage-induced apoptosis. <b>2004</b> , 30, 81-94   | 47  |
| 1563 | Telomerase-mediated lifespan extension of human bronchial cells does not affect hexavalent chromium-induced cytotoxicity or genotoxicity. <b>2004</b> , 255, 103-11                | 47  |
| 1562 | Redox control of signal transduction, gene expression and cellular senescence. <b>2004</b> , 29, 617-28  | 94  |
| 1561 | Immortalized fibroblast-like cells derived from human embryonic stem cells support undifferentiated cell growth. <b>2004</b> , 22, 972-80  | 154 |
| 1560 | Mitochondrial Dysfunction via Disruption of Complex II Activity during Iron Chelation-Induced Senescence-like Growth Arrest of Chang Cells. <b>2004</b> , 1011, 123-132            | 17  |

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|------|--|-----|
| 1559 | Cadmium-Induced Nephropathy in Rats Is Mediated by Expression of Senescence-Associated Beta-Galactosidase and Accumulation of Mitochondrial DNA Deletion. <b>2004</b> , 1011, 332-338                | 13  |
| 1558 | Differential regulation of telomerase in endothelial cells by fibroblast growth factor-2 and vascular endothelial growth factor-a: association with replicative life span. <b>2004</b> , 1019, 111-5 | 30  |
| 1557 | Total deletion of in vivo telomere elongation capacity: an ambitious but possibly ultimate cure for all age-related human cancers. <b>2004</b> , 1019, 147-70  | 19  |
| 1556 | Insights into aging obtained from p53 mutant mouse models. <b>2004</b> , 1019, 171-7   | 34  |
| 1555 | The role of cellular senescence may be to prevent proliferation of neighboring cells within stem cell niches. <b>2004</b> , 1019, 191-4  | 8   |
| 1554 | No increase in senescence-associated beta-galactosidase activity in Werner syndrome fibroblasts after exposure to H2O2. <b>2004</b> , 1019, 375-8  | 8   |
| 1553 | Functional aging and gradual senescence in zebrafish. <b>2004</b> , 1019, 521-6  | 71  |
| 1552 | Immortalization of cementoblast progenitor cells with Bmi-1 and TERT. <b>2005</b> , 20, 50-7   | 70  |
| 1551 | Reduction of alkaline phosphatase activity in aged human osteogenic periodontal ligament fibroblasts exhibiting short telomeres. <b>2004</b> , 315, 331-7  | 8   |
| 1550 | Immortalized cells as experimental models to study cancer. <b>2004</b> , 45, 47-59   | 10  |
| 1549 | Telomeres and chromosomal instability. <b>2004</b> , 61, 641-56  | 55  |
| 1548 | Interleukin-8 expression is increased in senescent prostatic epithelial cells and promotes the development of benign prostatic hyperplasia. <b>2004</b> , 60, 153-9                                  | 87  |
| 1547 | Failure of in vitro-differentiated mesenchymal stem cells from the synovial membrane to form ectopic stable cartilage in vivo. <b>2004</b> , 50, 142-50  | 362 |
| 1546 | Progressive telomere shortening occurs in cultured rat microglia, but not astrocytes. <b>2004</b> , 45, 75-88  | 117 |
| 1545 | Potential efficacy of p16 gene therapy for EBV-positive nasopharyngeal carcinoma. <b>2004</b> , 110, 452-8   | 9   |
| 1544 | Impact of collagen structure on matrix trafficking by human fibroblasts. <b>2004</b> , 70, 39-48   | 18  |
| 1543 | Cellular senescence induced by p53-ras cooperation is independent of p21waf1 in murine embryo fibroblasts. <b>2004</b> , 92, 514-24  | 19  |
| 1542 | Down-regulation of p21WAF1 promotes apoptosis in senescent human fibroblasts: involvement of retinoblastoma protein phosphorylation and delay of cellular aging. <b>2004</b> , 201, 483-91           | 16  |

|      |   |     |
|------|---|-----|
| 1541 | In silico analysis of gene expression profiles in the olfactory mucosae of aging senescence-accelerated mice. <b>2004</b> , 77, 430-52  | 11  |
| 1540 | Non-neutral role of replicative senescence in tissue homeostasis and tumorigenesis. <b>2004</b> , 230, 333-41   | 5   |
| 1539 | A fluorimetric method using fluorescein di-beta-D-galactopyranoside for quantifying the senescence-associated beta-galactosidase activity in human foreskin fibroblast Hs68 cells. <b>2004</b> , 325, 337-43                    | 44  |
| 1538 | Why use telomerized cells for organ transplantation?. <b>2004</b> , 7, 12-4   | 2   |
| 1537 | Reconstitution of active telomerase in primary human foreskin fibroblasts: effects on proliferative characteristics and response to ionizing radiation. <b>2004</b> , 80, 377-88  | 20  |
| 1536 | Cisplatin enhances the cytotoxicity of fast neutrons in a murine lymphoma cell line. <b>2004</b> , 82, 140-5  | 7   |
| 1535 | Cardiac stem cell and myocyte aging, heart failure, and insulin-like growth factor-1 overexpression. <b>2004</b> , 94, 514-24   | 477 |
| 1534 | The aging factor in health and disease: the promise of basic research on aging. <b>2004</b> , 16, 104-11; discussion 111-2  | 17  |
| 1533 | Telomere length in leukocytes and cultured gingival fibroblasts from patients with aggressive periodontitis. <b>2004</b> , 75, 84-90  | 11  |
| 1532 | Contribution of p16INK4a to replicative senescence of human fibroblasts. <b>2004</b> , 298, 549-549   |     |
| 1531 | Living and dying for sex. A theory of aging based on the modulation of cell cycle signaling by reproductive hormones. <b>2004</b> , 50, 265-90  | 103 |
| 1530 | N-methyl-N'-nitro-N-nitrosoguanidine-induced senescence-like growth arrest in colon cancer cells is associated with loss of adenomatous polyposis coli protein, microtubule organization, and telomeric DNA. <b>2004</b> , 3, 3 | 16  |
| 1529 | Telomerase and Cancer. <b>2004</b> , 3, 1-11  | 2   |
| 1528 | Homologous recombination generates T-loop-sized deletions at human telomeres. <b>2004</b> , 119, 355-68   | 418 |
| 1527 | Differential gene expression of early and late passage retinal pigment epithelial cells. <b>2004</b> , 79, 209-21   | 20  |
| 1526 | Replicative senescence enhances apoptosis induced by pemphigus autoimmune antibodies in human keratinocytes. <b>2004</b> , 567, 281-6   | 26  |
| 1525 | Chromosome positional effects of gene expressions after cellular senescence. <b>2004</b> , 313, 576-86  | 8   |
| 1524 | Heme controls the expression of cell cycle regulators and cell growth in HeLa cells. <b>2004</b> , 315, 546-54  | 34  |

|      |   |     |
|------|---|-----|
| 1523 | Expression of connective tissue growth factor, a biomarker in senescence of human diploid fibroblasts, is up-regulated by a transforming growth factor-beta-mediated signaling pathway. <b>2004</b> , 318, 819-25 | 49  |
| 1522 | L-carnosine reduces telomere damage and shortening rate in cultured normal fibroblasts. <b>2004</b> , 324, 931-6  | 60  |
| 1521 | Cellular aging of mitochondrial DNA-depleted cells. <b>2004</b> , 325, 1399-405   | 30  |
| 1520 | Telomerase deficiency impairs differentiation of mesenchymal stem cells. <b>2004</b> , 294, 1-8   | 110 |
| 1519 | Long-term molecular and cellular stability of human neural stem cell lines. <b>2004</b> , 294, 559-70   | 77  |
| 1518 | Histone deacetylase inhibitors induce a senescence-like state in human cells by a p16-dependent mechanism that is independent of a mitotic clock. <b>2004</b> , 295, 525-38                                       | 108 |
| 1517 | Telomere length mediates the effects of telomerase on the cellular response to genotoxic stress. <b>2004</b> , 298, 17-27   | 96  |
| 1516 | Contribution of p16(INK4a) to replicative senescence of human fibroblasts. <b>2004</b> , 298, 549-59  | 76  |
| 1515 | Cloning and characterization of cellular senescence-associated genes in human fibroblasts by suppression subtractive hybridization. <b>2004</b> , 298, 465-72   | 19  |
| 1514 | From cells to ageing: a review of models and mechanisms of cellular senescence and their impact on human ageing. <b>2004</b> , 300, 1-10  | 82  |
| 1513 | Vascular cell senescence and vascular aging. <b>2004</b> , 36, 175-83   | 119 |
| 1512 | Chronic rejection in renal transplantation. <b>2004</b> , 18, 86-95   |     |
| 1511 | Vascular cell senescence in human atherosclerosis. <b>2004</b> , 1262, 566-569  | 1   |
| 1510 | Potential of cell killing by fractionated radiation and suppression of proliferative recovery in MCF-7 breast tumor cells by the Vitamin D3 analog EB 1089. <b>2004</b> , 92, 365-74                              | 26  |
| 1509 | Rapid cell senescence-associated changes in galactosylation of N-linked oligosaccharides in human lung adenocarcinoma A549 cells. <b>2004</b> , 426, 306-13   | 4   |
| 1508 | Role of the PLA2-independent peroxiredoxin VI activity in the survival of immortalized fibroblasts exposed to cytotoxic oxidative stress. <b>2004</b> , 557, 26-32  | 16  |
| 1507 | The peptide methionine sulfoxide reductases, MsrA and MsrB (hCBS-1), are downregulated during replicative senescence of human WI-38 fibroblasts. <b>2004</b> , 558, 74-8  | 63  |
| 1506 | Signaling pathway requirements for induction of senescence by telomere homolog oligonucleotides. <b>2004</b> , 301, 189-200   | 45  |

|      |  |     |
|------|--|-----|
| 1505 | Possible therapy for age-related macular degeneration using human telomerase. <b>2004</b> , 62, 549-53   | 15  |
| 1504 | Chondrocyte senescence, joint loading and osteoarthritis. <b>2004</b> , S96-103  | 137 |
| 1503 | Extracorporeal photopheresis in graft-versus-host disease: ultraviolet radiation mediates T cell senescence in vivo. <b>2004</b> , 78, 484-5   | 8   |
| 1502 | Role of replicative senescence in the progression of fibrosis in hepatitis C virus (HCV) recurrence after liver transplantation. <b>2004</b> , 77, 1755-60                           | 21  |
| 1501 | Phosphorylation of cell cycle proteins at senescence. <b>2004</b> , 16, 15-34  |     |
| 1500 | Senescence-associated changes in respiration and oxidative phosphorylation in primary human fibroblasts. <b>2004</b> , 380, 919-28   | 189 |
| 1499 | Induction of polyploidy by histone deacetylase inhibitor: a pathway for antitumor effects. <b>2005</b> , 65, 7832-9  | 95  |
| 1498 | Panel Discussion ??? Pediatric Plastic Surgery. <b>2005</b> , 116, 74  | 4   |
| 1497 | Association of Allogenic Bone for Flap Prefabrication: An Experimental Study. <b>2005</b> , 116, 79-81   |     |
| 1496 | Estrogen reduces endothelial progenitor cell senescence through augmentation of telomerase activity. <b>2005</b> , 23, 1699-706  | 104 |
| 1495 | Selective Use of Ipsilateral (IC7) and Contralateral C7 (cC7) Root in OBPP. <b>2005</b> , 116, 82-84   |     |
| 1494 | Factors Predictive of Aesthetic Success with Tissue Expander/Implant Breast Reconstruction in Previously Irradiated Patients. <b>2005</b> , 116, 70-71                               | 1   |
| 1493 | Radiation After Immediate TRAM Flap Breast Reconstruction. <b>2005</b> , 116, 71   |     |
| 1492 | Interactive Video ??? The Volume Added Latissimus Flap for Breast Reconstruction. <b>2005</b> , 116, 72  | 64  |
| 1491 | Video ??? Upper and Lower Blepharoplasty with Retinacular Canthopexy. <b>2005</b> , 116, 73  | 19  |
| 1490 | Integra?? as a Biomechanical Barrier to Reduce Post-Operative Tendon Adhesions. <b>2005</b> , 116, 78-79   |     |
| 1489 | Comparison of Trapeziometacarpal Joint Reconstruction by Alternate Methods of Tendon Arthroplasty. <b>2005</b> , 116, 84-85  |     |
| 1488 | Stem cell self-renewal and cancer cell proliferation are regulated by common networks that balance the activation of proto-oncogenes and tumor suppressors. <b>2005</b> , 70, 177-85 | 104 |

|      |  |     |
|------|--|-----|
| 1487 | Lecture ??? Update on Hemangiomas. <b>2005</b> , 116, 75   |     |
| 1486 | Endothelial progenitor cell senescence is accelerated in both experimental hypertensive rats and patients with essential hypertension. <b>2005</b> , 23, 1831-7                      | 181 |
| 1485 | Replicative senescence and cancer. <b>2005</b> , 124, 53-73  | 2   |
| 1484 | Angiotensin II accelerates endothelial progenitor cell senescence through induction of oxidative stress. <b>2005</b> , 23, 97-104  | 203 |
| 1483 | Hypoxia-reoxygenation induces premature senescence in FA bone marrow hematopoietic cells. <b>2005</b> , 106, 75-85   | 54  |
| 1482 | Quantitative assay of senescence-associated beta-galactosidase activity in mammalian cell extracts. <b>2005</b> , 343, 329-34  | 137 |
| 1481 | Budded karyoplasts from multinucleated fibroblast cells contain centrosomes and change their morphology to mitotic cells. <b>2005</b> , 29, 1057-65                                  | 36  |
| 1480 | Estrogen reduces angiotensin II-induced acceleration of senescence in endothelial progenitor cells. <b>2005</b> , 28, 263-71   | 47  |
| 1479 | Effect of estrogen on differentiation and senescence in endothelial progenitor cells derived from bone marrow in spontaneously hypertensive rats. <b>2005</b> , 28, 763-72           | 50  |
| 1478 | Human embryonic stem cell stability. <b>2005</b> , 1, 139-44   | 33  |
| 1477 | Reactive oxygen species as mediators of cellular senescence. <b>2005</b> , 57, 277-81  | 188 |
| 1476 | Manganese superoxide dismutase induces p53-dependent senescence in colorectal cancer cells. <b>2005</b> , 25, 7758-69  | 93  |
| 1475 | Annual fishes of the genus <i>Nothobranchius</i> as a model system for aging research. <b>2005</b> , 4, 223-33   | 177 |
| 1474 | Apoptosis resistance of senescent human fibroblasts is correlated with the absence of nuclear IGFBP-3. <b>2005</b> , 4, 325-30   | 47  |
| 1473 | Telomere-independent cellular senescence in human fetal cardiomyocytes. <b>2005</b> , 4, 21-30   | 45  |
| 1472 | Age-dependent response of primary human dermal fibroblasts to oxidative stress: cell survival, pro-survival kinases, and entrance into cellular senescence. <b>2005</b> , 13, 565-75 | 36  |
| 1471 | Chronic renal allograft rejection: pathophysiologic considerations. <b>2005</b> , 68, 1-13   | 147 |
| 1470 | Functional changes induced by chronic UVA irradiation to cultured human dermal fibroblasts. <b>2005</b> , 153 Suppl 2, 6-12  | 46  |

|      |  |      |
|------|--|------|
| 1469 | DNA processing is not required for ATM-mediated telomere damage response after TRF2 deletion. <b>2005</b> , 7, 712-8   | 469  |
| 1468 | Temporal dissection of p53 function in vitro and in vivo. <b>2005</b> , 37, 718-26   | 158  |
| 1467 | Senescence comes of age. <b>2005</b> , 11, 920-2   | 134  |
| 1466 | Reduced hematopoietic reserves in DNA interstrand crosslink repair-deficient <i>Ercc1</i> <sup>-/-</sup> mice. <b>2005</b> , 24, 861-71  | 119  |
| 1465 | POT1 protects telomeres from a transient DNA damage response and determines how human chromosomes end. <b>2005</b> , 24, 2667-78   | 235  |
| 1464 | Increased stability of the p16 mRNA with replicative senescence. <b>2005</b> , 6, 158-64   | 80   |
| 1463 | The cellular level of telomere dysfunction determines induction of senescence or apoptosis in vivo. <b>2005</b> , 6, 275-81  | 76   |
| 1462 | Functional identification of a BAC clone from 16q24 carrying a senescence gene <i>SEN16</i> for breast cancer cells. <b>2005</b> , 24, 47-54   | 4    |
| 1461 | TGF beta1 induces prolonged mitochondrial ROS generation through decreased complex IV activity with senescent arrest in Mv1Lu cells. <b>2005</b> , 24, 1895-903                          | 133  |
| 1460 | Cell-autonomous induction of functional tumor suppressor 15-lipoxygenase 2 (15-LOX2) contributes to replicative senescence of human prostate progenitor cells. <b>2005</b> , 24, 3583-95 | 47   |
| 1459 | Recurrent chromosomal aberrations in <i>INK4a</i> / <i>ARF</i> defective primary lymphomas predict drug responses in vivo. <b>2005</b> , 24, 4174-82                                     | 11   |
| 1458 | Two distinct modes of cell death induced by doxorubicin: apoptosis and cell death through mitotic catastrophe accompanied by senescence-like phenotype. <b>2005</b> , 24, 4765-77        | 256  |
| 1457 | Growth factors rescue cutaneous melanoma cells from apoptosis induced by knockdown of mutated (V 600 E) <i>B-RAF</i> . <b>2005</b> , 24, 6292-302  | 45   |
| 1456 | Inhibition of clonogenic tumor growth: a novel function of Smac contributing to its antitumor activity. <b>2005</b> , 24, 7190-202   | 38   |
| 1455 | Induction of p21(WAF1/CIP1) by human synovial sarcoma-associated chimeric oncoprotein SYT-SSX1. <b>2005</b> , 24, 7984-90  | 23   |
| 1454 | p53-dependent ICAM-1 overexpression in senescent human cells identified in atherosclerotic lesions. <b>2005</b> , 85, 502-11   | 82   |
| 1453 | Oncogene-induced senescence as an initial barrier in lymphoma development. <b>2005</b> , 436, 660-5  | 965  |
| 1452 | <i>BRAF</i> <sup>E600</sup> -associated senescence-like cell cycle arrest of human naevi. <b>2005</b> , 436, 720-4   | 1659 |

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|------|---|------|
| 1451 | Crucial role of p53-dependent cellular senescence in suppression of Pten-deficient tumorigenesis. <b>2005</b> , 436, 725-30   | 1335 |
| 1450 | Accelerated ageing in mice deficient in Zmpste24 protease is linked to p53 signalling activation. <b>2005</b> , 437, 564-8  | 362  |
| 1449 | Cancer: crime and punishment. <b>2005</b> , 436, 636-7  | 134  |
| 1448 | Earth science: trouble under Tonga?. <b>2005</b> , 436, 637-8   | 2    |
| 1447 | Tumour biology: senescence in premalignant tumours. <b>2005</b> , 436, 642  | 1079 |
| 1446 | Epidermal growth factor (EGF)-mediated DNA-binding activity of AP-1 is attenuated in senescent human epidermal keratinocytes. <b>2005</b> , 14, 519-27  | 12   |
| 1445 | Maggots and wound healing: an investigation of the effects of secretions from <i>Lucilia sericata</i> larvae upon the migration of human dermal fibroblasts over a fibronectin-coated surface. <b>2005</b> , 13, 422-33 | 72   |
| 1444 | What has senescence got to do with cancer?. <b>2005</b> , 7, 505-12   | 258  |
| 1443 | The suppressed proliferation and premature senescence by ganciclovir in p53-mutated human non-small-lung cancer cells acquiring herpes simplex virus-thymidine kinase cDNA. <b>2005</b> , 29, 286-93                    | 7    |
| 1442 | Targeted inhibition of the transcription factor YY1 in an embryonal carcinoma cell line results in retarded cell growth, elevated levels of p53 but no increase in apoptotic cell death. <b>2005</b> , 84, 543-53       | 15   |
| 1441 | Replicative senescence in sheep fibroblasts is a p53 dependent process. <b>2005</b> , 40, 17-26   | 26   |
| 1440 | Cellular senescence in vivo: its relevance in ageing and cardiovascular disease. <b>2005</b> , 40, 634-42   | 199  |
| 1439 | Cellular senescence in the glaucomatous outflow pathway. <b>2005</b> , 40, 745-8  | 135  |
| 1438 | SA beta Gal staining: biomarker or delusion. <b>2005</b> , 40, 836-8  | 72   |
| 1437 | Proliferation dynamics in cultured skin fibroblasts from Down syndrome subjects. <b>2005</b> , 39, 374-80   | 29   |
| 1436 | Profiling molecular targets of TGF-beta1 in prostate fibroblast-to-myofibroblast transdifferentiation. <b>2005</b> , 126, 59-69   | 145  |
| 1435 | Ageing, tumor suppression and cancer: high wire-act!. <b>2005</b> , 126, 51-8   | 134  |
| 1434 | Human cell senescence as a DNA damage response. <b>2005</b> , 126, 111-7  | 332  |



|      |   |    |
|------|---|----|
| 1433 | Normal human oral keratinocytes demonstrate abnormal DNA end joining activity during replicative senescence. <b>2005</b> , 126, 475-9   | 10 |
| 1432 | Dinstinct ROS and biochemical profiles in cells undergoing DNA damage-induced senescence and apoptosis. <b>2005</b> , 126, 580-90   | 60 |
| 1431 | Inactivation of p38 kinase delays the onset of senescence in rabbit articular chondrocytes. <b>2005</b> , 126, 591-7  | 17 |
| 1430 | Increased expression of 14-3-3varepsilon protein in intrinsically aged and photoaged human skin in vivo. <b>2005</b> , 126, 629-36  | 11 |
| 1429 | Increased caveolin-1, a cause for the declined adipogenic potential of senescent human mesenchymal stem cells. <b>2005</b> , 126, 551-9   | 81 |
| 1428 | Analysis of UV-induced damage and repair in young and senescent human dermal fibroblasts using the comet assay. <b>2005</b> , 126, 664-72   | 15 |
| 1427 | Differential expression of genes associated with telomere length homeostasis and oncogenesis in an avian model. <b>2005</b> , 126, 1060-70  | 17 |
| 1426 | The thorny path linking cellular senescence to organismal aging. <b>2005</b> , 126, 1040-5  | 70 |
| 1425 | Modeling aging and cancer in the telomerase knockout mouse. <b>2005</b> , 576, 39-53  | 23 |
| 1424 | Epithelial-mesenchymal interactions allow for epidermal cells to display an in vivo-like phenotype in vitro. <b>2005</b> , 73, 79-87  | 16 |
| 1423 | Dermal fibroblasts cultured on small intestinal submucosa: Conditions for the formation of a neotissue. <b>2005</b> , 75, 895-906   | 14 |
| 1422 | Expression of p16INK4A variants in senescent human fibroblasts independent of protein phosphorylation. <b>2005</b> , 94, 1135-47  | 6  |
| 1421 | A region on human chromosome 4 (q35.1-->qter) induces senescence in cell hybrids and is involved in cervical carcinogenesis. <b>2005</b> , 43, 260-72                                 | 19 |
| 1420 | Multiple mechanisms downregulate CDKN1C in human bladder cancer. <b>2005</b> , 114, 406-13  | 51 |
| 1419 | Evidence for inactivation of distinct telomerase repressor genes in different types of human cancers. <b>2005</b> , 115, 653-7  | 8  |
| 1418 | An oncolytic adenovirus controlled by a modified telomerase promoter is attenuated in telomerase-negative cells, but shows reduced activity in cancer cells. <b>2005</b> , 83, 736-47 | 10 |
| 1417 | Telomerase: regulation, function and transformation. <b>2005</b> , 54, 85-93  | 78 |
| 1416 | Telomeres and telomerase biology in vertebrates: progress towards a non-human model for replicative senescence and ageing. <b>2005</b> , 6, 371-85                                    | 38 |

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|------|--|-----|
| 1415 | Myocardial aging--a stem cell problem. <b>2005</b> , 100, 482-93   | 96  |
| 1414 | Correction of cellular phenotypes of Hutchinson-Gilford Progeria cells by RNA interference. <b>2005</b> , 118, 444-50  | 62  |
| 1413 | Twenty years of progress in biogerontology research. <b>2005</b> , 27, 321-8   | 2   |
| 1412 | Cyclic induction of senescence with intermittent AZT treatment accelerates both apoptosis and telomere loss. <b>2005</b> , 93, 227-36                        | 30  |
| 1411 | HDACs and the senescent phenotype of WI-38 cells. <b>2005</b> , 6, 37  | 44  |
| 1410 | Mammalian cells lack checkpoints for tetraploidy, aberrant centrosome number, and cytokinesis failure. <b>2005</b> , 6, 6                                    | 110 |
| 1409 | Experimental study of the function of the excreted/secreted Leishmania LmSIR2 protein by heterologous expression in eukaryotic cell line. <b>2005</b> , 4, 1 | 17  |
| 1408 | Frequent cellular senescence in small bile ducts in primary biliary cirrhosis: a possible role in bile duct loss. <b>2005</b> , 205, 451-9                   | 93  |
| 1407 | Proteomic analysis of the proteins expressed by hydrogen peroxide treated cultured human dermal microvascular endothelial cells. <b>2005</b> , 5, 1507-19    | 16  |
| 1406 | Telomeres, cell senescence and human ageing. <b>2005</b> , 5, 103-114  | 14  |
| 1405 | Epigenetic control of telomerase and modes of telomere maintenance in aging and abnormal systems. <b>2005</b> , 10, 1779-96                                  | 39  |
| 1404 | Senescence and its bypass in the vascular endothelium. <b>2005</b> , 10, 940-50  | 13  |
| 1403 | p53 and Mouse Aging Models. <b>2005</b> , 149-180  | 1   |
| 1402 | Telomeres and Telomerase: Distinctive Roles in Liver Regeneration, Cirrhosis and Carcinogenesis. <b>2005</b> , 333-339                                       | 2   |
| 1401 | The influence of advanced age on cancer occurrence and growth. <b>2005</b> , 124, 75-87  | 6   |
| 1400 | Gene Program Signatures for Papillomavirus E2-Mediated Senescence in Cervical Cancer Cells. <b>2005</b> , 69-88  |     |
| 1399 | Cellular study of replicative senescence in human periodontal ligament fibroblast using molecular biology. <b>2005</b> , 35, 623                             |     |
| 1398 | Cellular mechanisms for low-dose ionizing radiation-induced perturbation of the breast tissue microenvironment. <b>2005</b> , 65, 6734-44                    | 104 |

|      |   |     |
|------|---|-----|
| 1397 | Modeling premature aging syndromes with the telomerase knockout mouse. <b>2005</b> , 5, 153-8   | 4   |
| 1396 | Telomeres as biomarkers for ageing and age-related diseases. <b>2005</b> , 5, 197-203   | 305 |
| 1395 | Telomeres, Senescence and Longevity: The Role of Oxidative Stress and Antioxidants. <b>2005</b> , 3, 129-156  | 1   |
| 1394 | Skin aging: a role for telomerase and telomere dynamics?. <b>2005</b> , 5, 171-7  | 38  |
| 1393 | YB-1 is important for late-stage embryonic development, optimal cellular stress responses, and the prevention of premature senescence. <b>2005</b> , 25, 4625-37                          | 133 |
| 1392 | Werner protein protects nonproliferating cells from oxidative DNA damage. <b>2005</b> , 25, 10492-506   | 79  |
| 1391 | Pak4 induces premature senescence via a pathway requiring p16INK4/p19ARF and mitogen-activated protein kinase signaling. <b>2005</b> , 25, 9532-42  | 60  |
| 1390 | p63 deficiency activates a program of cellular senescence and leads to accelerated aging. <b>2005</b> , 19, 1986-99   | 241 |
| 1389 | Reduction of total E2F/DP activity induces senescence-like cell cycle arrest in cancer cells lacking functional pRB and p53. <b>2005</b> , 168, 553-60                                    | 66  |
| 1388 | The microtubule stabilizing agent discodermolide is a potent inducer of accelerated cell senescence. <b>2005</b> , 4, 501-7   | 89  |
| 1387 | Loss of the hSNF5 gene concomitantly inactivates p21CIP/WAF1 and p16INK4a activity associated with replicative senescence in A204 rhabdoid tumor cells. <b>2005</b> , 65, 10192-8         | 77  |
| 1386 | Asymmetric dimethylarginine (ADMA) accelerates cell senescence. <b>2005</b> , 10, S65-S71   | 4   |
| 1385 | Immortalization of human fetal cells: the life span of umbilical cord blood-derived cells can be prolonged without manipulating p16INK4a/RB braking pathway. <b>2005</b> , 16, 1491-9     | 81  |
| 1384 | Akt activation suppresses Chk2-mediated, methylating agent-induced G2 arrest and protects from temozolomide-induced mitotic catastrophe and cellular senescence. <b>2005</b> , 65, 4861-9 | 129 |
| 1383 | Chloramphenicol-induced mitochondrial stress increases p21 expression and prevents cell apoptosis through a p21-dependent pathway. <b>2005</b> , 280, 26193-9                             | 41  |
| 1382 | p53-independent regulation of p21Waf1/Cip1 expression and senescence by Chk2. <b>2005</b> , 3, 627-34   | 133 |
| 1381 | Growth plate senescence is associated with loss of DNA methylation. <b>2005</b> , 186, 241-9  | 34  |
| 1380 | Roscovitine modulates DNA repair and senescence: implications for combination chemotherapy. <b>2005</b> , 11, 8158-71   | 42  |

|      |  |     |
|------|--|-----|
| 1379 | Expression of the Leo1-like domain of replicative senescence down-regulated Leo1-like (RDL) protein promotes senescence of 2BS fibroblasts. <b>2005</b> , 19, 521-32   | 16  |
| 1378 | hTERT extends proliferative lifespan and prevents oxidative stress-induced apoptosis in human lens epithelial cells. <b>2005</b> , 46, 2503-13   | 31  |
| 1377 | Growth inhibition by the tumor suppressor p33ING1 in immortalized and primary cells: involvement of two silencing domains and effect of Ras. <b>2005</b> , 25, 422-31  | 45  |
| 1376 | Immortalization of Bone Marrow Mesenchymal Stem Cells from Inbred Pig for Regenerative Medicine. <b>2005</b> , 288-289, 43-46  | 2   |
| 1375 | Pharmacodynamics of the G-quadruplex-stabilizing telomerase inhibitor 3,11-difluoro-6,8,13-trimethyl-8H-quinolo[4,3,2-k]acridinium methosulfate (RHPS4) in vitro: activity in human tumor cells correlates with telomere length and can be enhanced, or antagonized, with cytotoxic agents. <b>2005</b> , 68, 1551-8 | 75  |
| 1374 | Biological Basis of Geriatric Oncology. <b>2005</b> ,  | 3   |
| 1373 | Stromal-epithelial interactions in aging and cancer: senescent fibroblasts alter epithelial cell differentiation. <b>2005</b> , 118, 485-96  | 447 |
| 1372 | Telomere length regulation during cloning, embryogenesis and ageing. <b>2005</b> , 17, 85-96   | 28  |
| 1371 | Early-senescent human skin fibroblasts do not demonstrate accelerated telomere shortening. <b>2005</b> , 60, 820-9   | 17  |
| 1370 | Quantitative analysis of telomerase activity and telomere length in domestic animal clones. <b>2006</b> , 325, 149-80  | 7   |
| 1369 | Adenovirus-mediated Ink4a/ARF gene transfer significantly suppressed the growth of pancreatic carcinoma cells. <b>2005</b> , 4, 1348-54  | 9   |
| 1368 | Decrease and senescence of endothelial progenitor cells in patients with preeclampsia. <b>2005</b> , 90, 5329-32   | 91  |
| 1367 | Radiation-induced senescence-like terminal growth arrest in thyroid cells. <b>2005</b> , 15, 306-13  | 15  |
| 1366 | Irradiation-induced translocation of p53 to mitochondria in the absence of apoptosis. <b>2005</b> , 280, 37169-77  | 43  |
| 1365 | Human telomerase reverse transcriptase immortalizes bovine lens epithelial cells and suppresses differentiation through regulation of the ERK signaling pathway. <b>2005</b> , 280, 22776-87   | 23  |
| 1364 | Fibromodulin gene transcription is induced by ultraviolet irradiation, and its regulation is impaired in senescent human fibroblasts. <b>2005</b> , 280, 31809-17  | 17  |
| 1363 | Overexpression of Bcl-2 by activated human hepatic stellate cells: resistance to apoptosis as a mechanism of progressive hepatic fibrogenesis in humans. <b>2006</b> , 55, 1174-82   | 130 |
| 1362 | Stable suppression of tumorigenicity by Pin1-targeted RNA interference in prostate cancer. <b>2005</b> , 11, 7523-31   | 98  |

|      |  |          |
|------|--|----------|
| 1361 | The ATM/p53/p21 pathway influences cell fate decision between apoptosis and senescence in reoxygenated hematopoietic progenitor cells. <b>2005</b> , 280, 19635-40   | 48       |
| 1360 | Repeated exposure of human skin fibroblasts to UVB at subcytotoxic level triggers premature senescence through the TGF-beta1 signaling pathway. <b>2005</b> , 118, 743-58  | 188      |
| 1359 | The concept of telomeric non-reciprocal recombination (TENOR) applied to human fibroblasts grown in serial cultures: concordance with genealogical data. <b>2005</b> , 8, 154-71   | 3        |
| 1358 | Evolutionarily conserved and nonconserved cellular localizations and functions of human SIRT proteins. <b>2005</b> , 16, 4623-35   | 1040     |
| 1357 | Evasion of a single-step, chemotherapy-induced senescence in breast cancer cells: implications for treatment response. <b>2005</b> , 11, 2637-43   | 111      |
| 1356 | RNA interference against human papillomavirus oncogenes in cervical cancer cells results in increased sensitivity to cisplatin. <b>2005</b> , 68, 1311-9   | 94       |
| 1355 | The human DEK proto-oncogene is a senescence inhibitor and an upregulated target of high-risk human papillomavirus E7. <b>2005</b> , 79, 14309-17  | 100      |
| 1354 | ING2 regulates the onset of replicative senescence by induction of p300-dependent p53 acetylation. <b>2005</b> , 25, 6639-48   | 105      |
| 1353 | Defining the domains of human polynucleotide phosphorylase (hPNPaseOLD-35) mediating cellular senescence. <b>2005</b> , 25, 7333-43  | 49       |
| 1352 | Human papillomavirus oncoprotein E7 targets the promyelocytic leukemia protein and circumvents cellular senescence via the Rb and p53 tumor suppressor pathways. <b>2005</b> , 25, 1013-24   | 71       |
| 1351 | Human telomeres maintain their overhang length at senescence. <b>2005</b> , 25, 2158-68  | 60       |
| 1350 | Asymmetric dimethylarginine (ADMA) accelerates cell senescence. <b>2005</b> , 10 Suppl 1, S65-71   | 29       |
| 1349 | Large liver cell dysplasia in hepatitis B virus x transgenic mouse liver and human chronic hepatitis B virus-infected liver. <b>2005</b> , 48, 16-22   | 23       |
| 1348 | FBXO31 is the chromosome 16q24.3 senescence gene, a candidate breast tumor suppressor, and a component of an SCF complex. <b>2005</b> , 65, 11304-13   | 67       |
| 1347 | Effects of human Na(+)/dicarboxylate cotransporter 3 on the replicative senescence of human embryonic lung diploid fibroblasts. <b>2005</b> , 60, 709-14   | 4        |
| 1346 | LPS induces the interaction of a transcription factor, LPS-induced TNF-alpha factor, and STAT6(B) with effects on multiple cytokines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 5132-7 | 11.5 109 |
| 1345 | Inactivation of Dnmt3b in mouse embryonic fibroblasts results in DNA hypomethylation, chromosomal instability, and spontaneous immortalization. <b>2005</b> , 280, 17986-91  | 191      |
| 1344 | Transplantation of a multipotent cell population from human adipose tissue induces dystrophin expression in the immunocompetent mdx mouse. <b>2005</b> , 201, 1397-405   | 346      |

|      |   |     |
|------|---|-----|
| 1343 | Inhibition of the DNA-dependent protein kinase catalytic subunit radiosensitizes malignant glioma cells by inducing autophagy. <b>2005</b> , 65, 4368-75  | 148 |
| 1342 | The senescent side of tumor suppression. <b>2005</b> , 4, 1722-4  | 66  |
| 1341 | Flexor Tendon Tissue Engineering: A Comparison of Tenocytes Versus Stem Cells. <b>2005</b> , 116, 76-77   | 10  |
| 1340 | Intensive inhibition of hTERT expression by a ribozyme induces rapid apoptosis of cancer cells through a telomere length-independent pathway. <b>2005</b> , 4, 1098-103                             | 28  |
| 1339 | Overexpression of Bcl-2 is associated with apoptotic resistance to the G-quadruplex ligand 12459 but is not sufficient to confer resistance to long-term senescence. <b>2005</b> , 33, 2192-203     | 39  |
| 1338 | Comparison of early passage, senescent and hTERT immortalized endothelial cells. <b>2005</b> , 309, 121-36  | 77  |
| 1337 | Senescence-associated decline in the intranuclear accumulation of hOGG1-alpha and impaired 8-oxo-dG repair activity in senescing normal human oral keratinocytes in vivo. <b>2005</b> , 310, 186-95 | 10  |
| 1336 | Role of the proto-oncogene Pokemon in cellular transformation and ARF repression. <b>2005</b> , 433, 278-85   | 418 |
| 1335 | Long-term maintenance of human keratinocytes in vitro. <b>2005</b> , 124, 475-8   | 8   |
| 1334 | Down-regulation of a forkhead transcription factor, FOXO3a, accelerates cellular senescence in human dermal fibroblasts. <b>2005</b> , 60, 4-9  | 67  |
| 1333 | Senescence and immortalization: role of telomeres and telomerase. <b>2005</b> , 26, 867-74  | 538 |
| 1332 | Induction of accelerated senescence by gamma radiation in human solid tumor-derived cell lines expressing wild-type TP53. <b>2005</b> , 163, 53-62  | 71  |
| 1331 | Cyclosporine a induces growth arrest or programmed cell death of human glioma cells. <b>2005</b> , 47, 430-41   | 29  |
| 1330 | Aging bone and cartilage: cross-cutting issues. <b>2005</b> , 328, 700-8  | 76  |
| 1329 | Expression of TARSH gene in MEFs senescence and its potential implication in human lung cancer. <b>2005</b> , 329, 1031-8   | 13  |
| 1328 | Impaired inhibition of NF-kappaB activity by melanoma-associated p16INK4a mutations. <b>2005</b> , 332, 873-9   | 14  |
| 1327 | Aspirin reduces endothelial cell senescence. <b>2005</b> , 334, 1226-32   | 69  |
| 1326 | Endogenous and ectopic expression of telomere regulating genes in chicken embryonic fibroblasts. <b>2005</b> , 335, 240-6   | 10  |

|      |   |      |
|------|---|------|
| 1325 | Survivin inhibits anti-growth effect of p53 activated by aurora B. <b>2005</b> , 336, 1164-71   | 17   |
| 1324 | Regulation of tissue factor and angiogenesis-related genes by changes in cell shape. <b>2005</b> , 337, 1267-75   | 13   |
| 1323 | Senescent cells, tumor suppression, and organismal aging: good citizens, bad neighbors. <b>2005</b> , 120, 513-22   | 1803 |
| 1322 | A genetic screen identifies PITX1 as a suppressor of RAS activity and tumorigenicity. <b>2005</b> , 121, 849-58   | 224  |
| 1321 | FoxO1 protects against pancreatic beta cell failure through NeuroD and MafA induction. <b>2005</b> , 2, 153-63  | 439  |
| 1320 | Formation of MacroH2A-containing senescence-associated heterochromatin foci and senescence driven by ASF1a and HIRA. <b>2005</b> , 8, 19-30                                       | 541  |
| 1319 | Heterogeneity in premature senescence by oxidative stress correlates with differential DNA damage during the cell cycle. <b>2005</b> , 4, 1140-8                                  | 48   |
| 1318 | Irreversible cellular senescence induced by prolonged exposure to H2O2 involves DNA-damage-and-repair genes and telomere shortening. <b>2005</b> , 37, 1407-20                    | 143  |
| 1317 | Etoposide (VP-16) elicits apoptosis following prolonged G2-M cell arrest in p53-mutated human non-small cell lung cancer cells. <b>2005</b> , 223, 249-58                         | 35   |
| 1316 | Thioredoxin overexpression in HT-1080 cells induced cellular senescence and sensitization to gamma radiation. <b>2005</b> , 579, 4055-62  | 17   |
| 1315 | Inhibitory role of peroxiredoxin II (Prx II) on cellular senescence. <b>2005</b> , 579, 4897-902  | 62   |
| 1314 | The intracellular domain of Notch ligand Delta1 induces cell growth arrest. <b>2005</b> , 579, 5798-5802  | 31   |
| 1313 | Recombinant alpha2(IV)NC1 domain inhibits tumor cell-extracellular matrix interactions, induces cellular senescence, and inhibits tumor growth in vivo. <b>2005</b> , 166, 901-11 | 42   |
| 1312 | Apoptosis and cell recovery in response to oxidative stress in p53-deficient prostate carcinoma cells. <b>2005</b> , 437, 151-8   | 23   |
| 1311 | Differential responsiveness of early- and late-passage endothelial cells to shear stress. <b>2005</b> , 190, 763-9  | 20   |
| 1310 | Telomerase inhibition by siRNA causes senescence and apoptosis in Barrett's adenocarcinoma cells: mechanism and therapeutic potential. <b>2005</b> , 4, 24                        | 68   |
| 1309 | Effect of overexpression of estrogen receptors in osteoblasts. <b>2005</b> , 41, 264-71   | 1    |
| 1308 | Pancreatic cancer: basic and clinical aspects. <b>2005</b> , 128, 1606-25   | 246  |

|      |  |     |
|------|--|-----|
| 1307 | Volume, trend and citation analyses of skin related publications from 1966 to 2003. <b>2005</b> , 37, 125-36   | 10  |
| 1306 | Senescent human keratinocytes suppress colony formation of HeLa cells. <b>2005</b> , 38, 64-6  | 4   |
| 1305 | Analysis of cellular senescence in culture in vivo: the senescence-associated beta-galactosidase assay. <b>2005</b> , Chapter 18, 18.9.1-18.9.9  | 13  |
| 1304 | Human epithelial cells increase their rigidity with ageing in vitro: direct measurements. <b>2005</b> , 50, 81-92  | 151 |
| 1303 | The identification of senescence-specific genes during the induction of senescence in prostate cancer cells. <b>2005</b> , 7, 816-23   | 92  |
| 1302 | Escape from therapy-induced accelerated cellular senescence in p53-null lung cancer cells and in human lung cancers. <b>2005</b> , 65, 2795-803  | 281 |
| 1301 | The G-quadruplex-interactive molecule BRACO-19 inhibits tumor growth, consistent with telomere targeting and interference with telomerase function. <b>2005</b> , 65, 1489-96                | 441 |
| 1300 | Gerontomodulatory and youth-preserving effects of zeatin on human skin fibroblasts undergoing aging in vitro. <b>2005</b> , 8, 46-57   | 66  |
| 1299 | Loss of the forkhead transcription factor FoxM1 causes centrosome amplification and mitotic catastrophe. <b>2005</b> , 65, 5181-9  | 271 |
| 1298 | Efficient inhibition of human telomerase reverse transcriptase expression by RNA interference sensitizes cancer cells to ionizing radiation and chemotherapy. <b>2005</b> , 16, 859-68       | 70  |
| 1297 | Effects of combined treatment with rapamycin and cotylenin A, a novel differentiation-inducing agent, on human breast carcinoma MCF-7 cells and xenografts. <b>2005</b> , 7, R1097-110       | 47  |
| 1296 | Dehydroepiandrosterone inhibits the progression phase of mammary carcinogenesis by inducing cellular senescence via a p16-dependent but p53-independent mechanism. <b>2005</b> , 7, R1132-40 | 26  |
| 1295 | Mammary epithelial cell transformation: insights from cell culture and mouse models. <b>2005</b> , 7, 171-9  | 99  |
| 1294 | The expression signature of in vitro senescence resembles mouse but not human aging. <b>2005</b> , 6, R109   | 25  |
| 1293 | Telomeres: cancer to human aging. <b>2006</b> , 22, 531-57   | 268 |
| 1292 | Oncogene-induced cell senescence--halting on the road to cancer. <b>2006</b> , 355, 1037-46  | 298 |
| 1291 | The Vascular Endothelium II. <b>2006</b> ,   | 4   |
| 1290 | Proliferative stimulus of lung fibroblasts on lung cancer cells is impaired by the receptor for advanced glycation end-products. <b>2006</b> , 34, 83-91                                     | 41  |



|      |  |     |
|------|--|-----|
| 1289 | Senescence and cell cycle control. <b>2006</b> , 42, 257-70  | 8   |
| 1288 | Matrix metalloproteinase 2 and tissue inhibitors of metalloproteinases regulate human aortic smooth muscle cell migration during in vitro aging. <b>2006</b> , 20, 1118-30   | 46  |
| 1287 | Prohibitin facilitates cellular senescence by recruiting specific corepressors to inhibit E2F target genes. <b>2006</b> , 26, 4161-71  | 78  |
| 1286 | How does cellular senescence prevent cancer?. <b>2006</b> , 25, 69-78  | 13  |
| 1285 | Rac1 GTPase regulates cell genomic stability and senescence. <b>2006</b> , 281, 38519-28   | 43  |
| 1284 | Oxidative stress induces premature senescence by stimulating caveolin-1 gene transcription through p38 mitogen-activated protein kinase/Sp1-mediated activation of two GC-rich promoter elements. <b>2006</b> , 66, 10805-14 | 166 |
| 1283 | Stat1 expression is not sufficient to regulate the interferon signaling pathway in cellular immortalization. <b>2006</b> , 26, 14-26   | 6   |
| 1282 | Extremely low priming doses of X radiation induce an adaptive response for chromosomal inversions in pKZ1 mouse prostate. <b>2006</b> , 166, 757-66  | 45  |
| 1281 | Replication competence and senescence in central and peripheral human corneal endothelium. <b>2006</b> , 47, 1387-96   | 116 |
| 1280 | Decreased expression of Bmi1 is closely associated with cellular senescence in small bile ducts in primary biliary cirrhosis. <b>2006</b> , 169, 831-45  | 75  |
| 1279 | SNEV overexpression extends the life span of human endothelial cells. <b>2006</b> , 312, 746-59  | 51  |
| 1278 | Deep senescent human fibroblasts show diminished DNA damage foci but retain checkpoint capacity to oxidative stress. <b>2006</b> , 580, 6669-73  | 16  |
| 1277 | Sirolimus accelerates senescence of endothelial progenitor cells through telomerase inactivation. <b>2006</b> , 189, 288-96  | 39  |
| 1276 | Werner Syndrome as an example of inflamm-aging: possible therapeutic opportunities for a progeroid syndrome?. <b>2006</b> , 9, 402-7   | 63  |
| 1275 | Lung fibroblasts from patients with emphysema show markers of senescence in vitro. <b>2006</b> , 7, 32   | 120 |
| 1274 | Human diploid fibroblast cells in senescence; cycling through polyploidy to mitotic cells. <b>2006</b> , 42, 216-24  | 38  |
| 1273 | Endothelial cell senescence. <b>2006</b> , 213-48  | 37  |
| 1272 | Establishment of immortal swine kidney epithelial cells. <b>2006</b> , 17, 51-8  | 5   |

|      |  |     |
|------|--|-----|
| 1271 | Effects of a complex mixture of therapeutic drugs at environmental levels on human embryonic cells. <b>2006</b> , 40, 2442-7   | 372 |
| 1270 | p53, longevity assurance and longevity suppression. <b>2006</b> , 3, 33-39   | 1   |
| 1269 | Bmi-1 is a novel molecular marker of nasopharyngeal carcinoma progression and immortalizes primary human nasopharyngeal epithelial cells. <b>2006</b> , 66, 6225-32                    | 287 |
| 1268 | Free radical scavenging effect of Pu-erh tea extracts and their protective effect on oxidative damage in human fibroblast cells. <b>2006</b> , 54, 8058-64                             | 66  |
| 1267 | Pancreatic duct epithelial cell isolation and cultivation in two-dimensional and three-dimensional culture systems. <b>2006</b> , 407, 703-10  | 33  |
| 1266 | Delivery of telomerase reverse transcriptase small interfering RNA in complex with positively charged single-walled carbon nanotubes suppresses tumor growth. <b>2006</b> , 12, 4933-9 | 254 |
| 1265 | The ubiquitin-proteasome system at the crossroads of stress-response and ageing pathways: a handle for skin care?. <b>2006</b> , 5, 60-90  | 34  |
| 1264 | Aging of mesenchymal stem cells. <b>2006</b> , 5, 91-116   | 485 |
| 1263 | Downregulation of protein kinase CKII is associated with cellular senescence. <b>2006</b> , 580, 988-94  | 42  |
| 1262 | Identification of p38MAPK-dependent genes with changed transcript abundance in H2O2-induced premature senescence of IMR-90 hTERT human fibroblasts. <b>2006</b> , 580, 6455-63         | 38  |
| 1261 | Lovastatin-induced RhoA modulation and its effect on senescence in prostate cancer cells. <b>2006</b> , 339, 748-54  | 51  |
| 1260 | Anti-apoptotic and anti-senescence effects of Klotho on vascular endothelial cells. <b>2006</b> , 339, 827-32  | 177 |
| 1259 | Interstitial chromatin alteration causes persistent p53 activation involved in the radiation-induced senescence-like growth arrest. <b>2006</b> , 340, 145-50                          | 28  |
| 1258 | Cellular senescence, cancer, and organismal aging: a paradigm shift. <b>2006</b> , 344, 1-2  | 9   |
| 1257 | Effect of L-arginine on asymmetric dimethylarginine (ADMA) or homocysteine-accelerated endothelial cell aging. <b>2006</b> , 345, 1075-82  | 33  |
| 1256 | The use of telomere biology to identify and develop superior nitron based anti-oxidants. <b>2006</b> , 347, 420-7  | 12  |
| 1255 | Telomerase with mutated catalytic motifs has dominant negative effects on telomerase activity and inhibits cell growth. <b>2006</b> , 350, 796-802                                     | 1   |
| 1254 | Interferon regulatory factor 3 activates p53-dependent cell growth inhibition. <b>2006</b> , 242, 215-21   | 25  |

|      |  |     |
|------|--|-----|
| 1253 | Combined loss of Cdk2 and Cdk4 results in embryonic lethality and Rb hypophosphorylation. <b>2006</b> , 10, 563-73   | 124 |
| 1252 | DNA damage signaling and p53-dependent senescence after prolonged beta-interferon stimulation. <b>2006</b> , 17, 1583-92   | 193 |
| 1251 | Interleukin-6 decreases senescence and increases telomerase activity in malignant human cholangiocytes. <b>2006</b> , 78, 2494-502   | 40  |
| 1250 | Ganoderiol F, a ganoderma triterpene, induces senescence in hepatoma HepG2 cells. <b>2006</b> , 79, 1129-39  | 59  |
| 1249 | Defective induction of senescence during wound healing is a possible mechanism of keloid formation. <b>2006</b> , 66, 649-52   | 17  |
| 1248 | Removal of senescent cells from organisms: A way to retard aging or just nonsense?. <b>2006</b> , 67, 1251-2   |     |
| 1247 | Nonoverlapping functions of DNA polymerases mu, lambda, and terminal deoxynucleotidyltransferase during immunoglobulin V(D)J recombination in vivo. <b>2006</b> , 25, 31-41  | 146 |
| 1246 | Human umbilical vein endothelial cells fuse with cardiomyocytes but do not activate cardiac gene expression. <b>2006</b> , 40, 520-8   | 8   |
| 1245 | Homocysteine accelerates senescence and reduces proliferation of endothelial progenitor cells. <b>2006</b> , 40, 648-52  | 74  |
| 1244 | Ganglioside catabolism is altered in fibroblasts and leukocytes from Alzheimer's disease patients. <b>2006</b> , 27, 1354-6  | 5   |
| 1243 | Ectopic expression of doublecortin protects adult rat progenitor cells and human glioma cells from severe oxygen and glucose deprivation. <b>2006</b> , 142, 739-52  | 23  |
| 1242 | The impact of chromosomal alteration on embryo development. <b>2006</b> , 65, 166-77   | 22  |
| 1241 | The origin of individual differences in the course and severity of diseases. <b>2006</b> , 6, 1674-704   | 1   |
| 1240 | Signal transducers and activators of transcription 3 mediates up-regulation of angiotensin II-induced tissue inhibitor of metalloproteinase-1 expression in cultured human senescent fibroblasts. <b>2006</b> , 119, 1094-1102 | 9   |
| 1239 | Recent advances in melanoma research. <b>2006</b> , 11, 3003-13  | 5   |
| 1238 | Hyperglycemia accelerated endothelial progenitor cell senescence via the activation of p38 mitogen-activated protein kinase. <b>2006</b> , 70, 1076-81   | 105 |
| 1237 | The effect of senescence of endothelial progenitor cells on in-stent restenosis in patients undergoing coronary stenting. <b>2006</b> , 45, 581-7  | 26  |
| 1236 | Total body irradiation selectively induces murine hematopoietic stem cell senescence. <b>2006</b> , 107, 358-66  | 249 |

|      |   |     |
|------|---|-----|
| 1235 | ECRG1, a novel candidate of tumor suppressor gene in the esophageal carcinoma, triggers a senescent program in NIH3T3 cells. <b>2006</b> , 231, 84-90                               | 8   |
| 1234 | Integrin-linked kinase induces both senescence-associated alterations and extracellular fibronectin assembly in aging cardiac fibroblasts. <b>2006</b> , 61, 1232-45                | 25  |
| 1233 | Expression profiling identifies three pathways altered in cellular immortalization: interferon, cell cycle, and cytoskeleton. <b>2006</b> , 61, 879-89                              | 22  |
| 1232 | Intratumor injection of small interfering RNA-targeting human papillomavirus 18 E6 and E7 successfully inhibits the growth of cervical cancer. <b>2006</b> , 29, 541                | 5   |
| 1231 | E2F-1 is a critical modulator of cellular senescence in human cancer. <b>2006</b> , 17, 715   | 2   |
| 1230 | Searching for aging-related proteins in human dermal microvascular endothelial cells treated with anti-aging agents. <b>2006</b> , 6, 1351-61                                       | 38  |
| 1229 | TRF2 dysfunction elicits DNA damage responses associated with senescence in proliferating neural cells and differentiation of neurons. <b>2006</b> , 97, 567-81                     | 24  |
| 1228 | Senescence-associated beta-galactosidase is lysosomal beta-galactosidase. <b>2006</b> , 5, 187-95   | 692 |
| 1227 | Age-related impairment of mesenchymal progenitor cell function. <b>2006</b> , 5, 213-24   | 171 |
| 1226 | Melanin accumulation accelerates melanocyte senescence by a mechanism involving p16INK4a/CDK4/pRB and E2F1. <b>2000</b> , 908, 71-84  | 39  |
| 1225 | Stress-induced premature senescence. Essence of life, evolution, stress, and aging. <b>2000</b> , 908, 85-98  | 72  |
| 1224 | Replicative senescence and oxidant-induced premature senescence. Beyond the control of cell cycle checkpoints. <b>2000</b> , 908, 111-25  | 134 |
| 1223 | The Werner syndrome. A model for the study of human aging. <b>2000</b> , 908, 167-79  | 40  |
| 1222 | Transcriptome and proteome analysis in human senescent fibroblasts and fibroblasts undergoing premature senescence induced by repeated sublethal stresses. <b>2000</b> , 908, 302-5 | 5   |
| 1221 | Hypocatalasemic fibroblasts accumulate hydrogen peroxide and display age-associated pathologies. <b>2006</b> , 7, 97-107  | 41  |
| 1220 | Spontaneous senescence in the MDA-MB-231 cell line. <b>2006</b> , 39, 205-16  | 6   |
| 1219 | Loss of the VHR dual-specific phosphatase causes cell-cycle arrest and senescence. <b>2006</b> , 8, 524-31  | 103 |
| 1218 | Plasminogen activator inhibitor-1 is a critical downstream target of p53 in the induction of replicative senescence. <b>2006</b> , 8, 877-84  | 426 |

|      |   |      |
|------|---|------|
| 1217 | Small molecule-based reversible reprogramming of cellular lifespan. <b>2006</b> , 2, 369-74   | 54   |
| 1216 | The power and the promise of oncogene-induced senescence markers. <b>2006</b> , 6, 472-6  | 331  |
| 1215 | Altered sirtuin expression is associated with node-positive breast cancer. <b>2006</b> , 95, 1056-61  | 189  |
| 1214 | Interferon-alpha prevents apoptosis of endothelial cells after short-term exposure but induces replicative senescence after continuous stimulation. <b>2006</b> , 86, 997-1007                  | 41   |
| 1213 | Oncogene-induced senescence is a DNA damage response triggered by DNA hyper-replication. <b>2006</b> , 444, 638-42  | 1352 |
| 1212 | The role of histone acetylation versus DNA damage in drug-induced senescence and apoptosis. <b>2006</b> , 13, 1960-7  | 44   |
| 1211 | Inhibition of cervical cancer cell growth in vitro and in vivo with lentiviral-vector delivered short hairpin RNA targeting human papillomavirus E6 and E7 oncogenes. <b>2006</b> , 13, 1023-32 | 105  |
| 1210 | Activation of the anaphase promoting complex by HTLV-1 tax leads to senescence. <b>2006</b> , 25, 1741-52   | 80   |
| 1209 | ATM-Chk2-p53 activation prevents tumorigenesis at an expense of organ homeostasis upon Brca1 deficiency. <b>2006</b> , 25, 2167-77  | 87   |
| 1208 | POT1b protects telomeres from end-to-end chromosomal fusions and aberrant homologous recombination. <b>2006</b> , 25, 5180-90   | 98   |
| 1207 | Convergence of vitamin D and retinoic acid signalling at a common hormone response element. <b>2006</b> , 7, 180-5  | 72   |
| 1206 | Sirt1 inhibitor, Sirtinol, induces senescence-like growth arrest with attenuated Ras-MAPK signaling in human cancer cells. <b>2006</b> , 25, 176-85   | 365  |
| 1205 | Dissection of transcriptional and non-transcriptional p53 activities in the response to genotoxic stress. <b>2006</b> , 25, 940-53  | 61   |
| 1204 | Neuroendocrine-like differentiation of non-small cell lung carcinoma cells: regulation by cAMP and the interaction of mac25/IGFBP-rP1 and 25.1. <b>2006</b> , 25, 1943-54                       | 27   |
| 1203 | Effects of hTERT on metal ion-induced genomic instability. <b>2006</b> , 25, 3424-35  | 30   |
| 1202 | Regulation of cellular senescence by Rb2/p130. <b>2006</b> , 25, 5257-62  | 25   |
| 1201 | Oxidative stress induces a prolonged but reversible arrest in p53-null cancer cells, involving a Chk1-dependent G2 checkpoint. <b>2006</b> , 25, 6037-47  | 34   |
| 1200 | Apoptotic cell death increases with senescence in normal human dermal fibroblast cultures. <b>2006</b> , 30, 903-9  | 35   |

|      |   |     |
|------|---|-----|
| 1199 | Recovery of elasticity of aged human epithelial cells in vitro. <b>2006</b> , 2, 31-6   | 71  |
| 1198 | Requirement of E7 oncoprotein for viability of HeLa cells. <b>2006</b> , 8, 984-93  | 24  |
| 1197 | Establishment of H <sub>2</sub> O <sub>2</sub> -induced premature senescence in human fibroblasts concomitant with increased cellular production of H <sub>2</sub> O <sub>2</sub> . <b>2006</b> , 1067, 210-6 | 34  |
| 1196 | Preferential reduction of the alpha-2-6-sialylation from cell surface N-glycans of human diploid fibroblastic cells by in vitro aging. <b>2006</b> , 23, 443-52   | 15  |
| 1195 | Characterization of the activities of p21Cip1/Waf1 promoter-driven reporter systems during camptothecin-induced senescence-like state of BHK-21 cells. <b>2006</b> , 291, 29-38                               | 13  |
| 1194 | Senescence in human intervertebral discs. <b>2006</b> , 15 Suppl 3, S312-6  | 211 |
| 1193 | Venous ulcer fibroblasts respond to basic fibroblast growth factor at the cell cycle protein level. <b>2006</b> , 20, 376-80  | 13  |
| 1192 | Cyclin E expression and chemotherapeutic sensitivity in breast cancer cells. <b>2006</b> , 26, 565-6  | 2   |
| 1191 | Regulation of replicative senescence by NADP <sup>+</sup> -dependent isocitrate dehydrogenase. <b>2006</b> , 40, 110-9  | 36  |
| 1190 | Bcl-2 protects against oxidative stress while inducing premature senescence. <b>2006</b> , 40, 1161-9   | 31  |
| 1189 | Premature cellular senescence induced by pyocyanin, a redox-active <i>Pseudomonas aeruginosa</i> toxin. <b>2006</b> , 41, 1670-7  | 61  |
| 1188 | A negative feedback signaling network underlies oncogene-induced senescence. <b>2006</b> , 10, 459-72   | 409 |
| 1187 | Transcriptional changes facilitate mitotic catastrophe in tumour cells that contain functional p53. <b>2006</b> , 540, 34-45  | 16  |
| 1186 | High-resolution respirometry--a modern tool in aging research. <b>2006</b> , 41, 103-9  | 94  |
| 1185 | Increased expression of extracellular proteins as a hallmark of human endothelial cell in vitro senescence. <b>2006</b> , 41, 474-81  | 61  |
| 1184 | Sustained inhibition of oxidative phosphorylation impairs cell proliferation and induces premature senescence in human fibroblasts. <b>2006</b> , 41, 674-82  | 76  |
| 1183 | Genetics of proliferative aging. <b>2006</b> , 41, 992-1000   | 6   |
| 1182 | Apollo, an Artemis-related nuclease, interacts with TRF2 and protects human telomeres in S phase. <b>2006</b> , 16, 1295-302  | 143 |

|      |  |     |
|------|--|-----|
| 1181 | Id-1 modulates senescence and TGF-beta1 sensitivity in prostate epithelial cells. <b>2006</b> , 98, 523-33   | 24  |
| 1180 | Regulation of growth arrest in senescence: telomere damage is not the end of the story. <b>2006</b> , 127, 16-24   | 145 |
| 1179 | Simultaneous proteomic profiling of four different growth states of human fibroblasts, using amine-reactive isobaric tagging reagents and tandem mass spectrometry. <b>2006</b> , 127, 332-43  | 44  |
| 1178 | Shift in sphingolipid metabolism leads to an accumulation of ceramide in senescence. <b>2006</b> , 127, 473-80   | 33  |
| 1177 | Age-related changes in focal adhesions lead to altered cell behavior in tendon fibroblasts. <b>2006</b> , 127, 726-32  | 43  |
| 1176 | Identification and characterization of an increased glycoprotein in aging: age-associated translocation of cathepsin D. <b>2006</b> , 127, 771-8   | 29  |
| 1175 | Polynucleotide phosphorylase: an evolutionary conserved gene with an expanding repertoire of functions. <b>2006</b> , 112, 243-63  | 39  |
| 1174 | Catabolic stress induces features of chondrocyte senescence through overexpression of caveolin 1: possible involvement of caveolin 1-induced down-regulation of articular chondrocytes in the pathogenesis of osteoarthritis. <b>2006</b> , 54, 818-31 | 116 |
| 1173 | Protein expression dynamics during replicative senescence of endothelial cells studied by 2-D difference in-gel electrophoresis. <b>2006</b> , 27, 1669-82   | 24  |
| 1172 | Neural expression of alpha-internexin promoter in vitro and in vivo. <b>2006</b> , 97, 275-87  | 6   |
| 1171 | p21Waf1/Cip1 plays a critical role in modulating senescence through changes of DNA methylation. <b>2006</b> , 98, 1230-48  | 53  |
| 1170 | Proteasome inhibitors shorten replicative life span and induce a senescent-like phenotype of human fibroblasts. <b>2006</b> , 207, 845-53  | 45  |
| 1169 | Formation of elongated giant mitochondria in DFO-induced cellular senescence: involvement of enhanced fusion process through modulation of Fis1. <b>2006</b> , 209, 468-80   | 193 |
| 1168 | Microglia instruct subventricular zone neurogenesis. <b>2006</b> , 54, 815-25  | 300 |
| 1167 | Induction of human endometrial cancer cell senescence through modulation of HIF-1alpha activity by EGLN1. <b>2006</b> , 118, 1144-53   | 58  |
| 1166 | Ursodeoxycholic acid modulates histone acetylation and induces differentiation and senescence. <b>2006</b> , 119, 2958-69  | 45  |
| 1165 | Wiedemann-Rautenstrauch syndrome's fibroblasts display a normal in vitro lifespan. <b>2006</b> , 140, 661-2  | 2   |
| 1164 | Hematopoietic stem cell senescence and long-term bone marrow injury. <b>2006</b> , 5, 35-8   | 46  |

|      |   |     |
|------|---|-----|
| 1163 | Senescence, wound healing and cancer: the PAI-1 connection. <b>2006</b> , 5, 2697-703   | 67  |
| 1162 | Derivation and large-scale expansion of multipotent astroglial neural progenitors from adult human brain. <b>2006</b> , 133, 3671-81  | 83  |
| 1161 | MDC1 accelerates nonhomologous end-joining of dysfunctional telomeres. <b>2006</b> , 20, 3238-43  | 74  |
| 1160 | Inhibition of ABL tyrosine kinase potentiates radiation-induced terminal growth arrest in anaplastic thyroid cancer cells. <b>2006</b> , 165, 35-42   | 21  |
| 1159 | Cancer therapy-induced residual bone marrow injury-Mechanisms of induction and implication for therapy. <b>2006</b> , 2, 271-279  | 109 |
| 1158 | Premature senescence of endothelial cells: Methusaleh's dilemma. <b>2006</b> , 290, H1729-39  | 87  |
| 1157 | Profiles of global gene expression in ionizing-radiation-damaged human diploid fibroblasts reveal synchronization behind the G1 checkpoint in a G0-like state of quiescence. <b>2006</b> , 114, 553-9 | 53  |
| 1156 | Cigarette smoke induces cellular senescence. <b>2006</b> , 35, 681-8  | 189 |
| 1155 | Senescence of human fibroblasts after psoralen photoactivation is mediated by ATR kinase and persistent DNA damage foci at telomeres. <b>2006</b> , 17, 1758-67                                       | 22  |
| 1154 | Heat shock-independent induction of multidrug resistance by heat shock factor 1. <b>2006</b> , 26, 580-91   | 36  |
| 1153 | RBP1 family proteins exhibit SUMOylation-dependent transcriptional repression and induce cell growth inhibition reminiscent of senescence. <b>2006</b> , 26, 1917-31                                  | 38  |
| 1152 | Contribution of p16INK4a and p21CIP1 pathways to induction of premature senescence of human endothelial cells: permissive role of p53. <b>2006</b> , 290, H1575-86                                    | 73  |
| 1151 | Induction of transcriptionally active Jun proteins regulates drug-induced senescence. <b>2006</b> , 281, 34475-83   | 23  |
| 1150 | The molecular scaffold kinase suppressor of Ras 1 is a modifier of RasV12-induced and replicative senescence. <b>2006</b> , 26, 2202-14   | 41  |
| 1149 | The gene expression program of prostate fibroblast senescence modulates neoplastic epithelial cell proliferation through paracrine mechanisms. <b>2006</b> , 66, 794-802                              | 332 |
| 1148 | Molecular basis for the cellular senescence program and its application to anticancer therapy. <b>2006</b> , 70, 1076-81  | 16  |
| 1147 | The possible role of EWS-Flt1 in evasion of senescence in Ewing family tumors. <b>2006</b> , 66, 803-11   | 44  |
| 1146 | The HBP1 transcriptional repressor participates in RAS-induced premature senescence. <b>2006</b> , 26, 8252-66  | 54  |



|      |   |      |     |
|------|---|------|-----|
| 1145 | Potential of radiation sensitivity in breast tumor cells by the vitamin D3 analogue, EB 1089, through promotion of autophagy and interference with proliferative recovery. <b>2006</b> , 5, 2786-97   |      | 72  |
| 1144 | Downregulation of connexin 43 expression by high glucose induces senescence in glomerular mesangial cells. <b>2006</b> , 17, 1532-42  |      | 49  |
| 1143 | Induction of senescence in diterpene ester-treated melanoma cells via protein kinase C-dependent hyperactivation of the mitogen-activated protein kinase pathway. <b>2006</b> , 66, 10083-91  |      | 52  |
| 1142 | Increased DNA damage sensitivity and apoptosis in cells lacking the Snf5/Ini1 subunit of the SWI/SNF chromatin remodeling complex. <b>2006</b> , 26, 2661-74  |      | 93  |
| 1141 | CELL SENESENCE: BRILLIANT INSIGHT OR FOOLISH NOTION?. <b>2006</b> , 46, 297-300   |      |     |
| 1140 | Oncogene-induced senescence: putting the brakes on tumor development. <b>2006</b> , 66, 2881-4  |      | 205 |
| 1139 | Chemotherapeutic approaches for targeting cell death pathways. <b>2006</b> , 11, 342-57   |      | 348 |
| 1138 | Influence of small interfering RNA corresponding to ets homologous factor on senescence-associated modulation of prostate carcinogenesis. <b>2006</b> , 5, 3191-6   |      | 16  |
| 1137 | Reprogramming of replicative senescence in hepatocellular carcinoma-derived cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 2178-83  | 11.5 | 50  |
| 1136 | An accelerated senescence response to radiation in wild-type p53 glioblastoma multiforme cells. <b>2006</b> , 105, 111-8  |      | 47  |
| 1135 | Ripe areca nut extract induces G1 phase arrests and senescence-associated phenotypes in normal human oral keratinocyte. <b>2006</b> , 27, 1273-84   |      | 72  |
| 1134 | HIF1alpha delays premature senescence through the activation of MIF. <b>2006</b> , 20, 3366-71  |      | 119 |
| 1133 | Early loss of proliferative potential of human peritoneal mesothelial cells in culture: the role of p16INK4a-mediated premature senescence. <b>2006</b> , 100, 988-95   |      | 57  |
| 1132 | Alpha-sulfoquinovosylmonoacylglycerol is a novel potent radiosensitizer targeting tumor angiogenesis. <b>2006</b> , 66, 2287-95   |      | 24  |
| 1131 | Phosphorylation of ezrin by cyclin-dependent kinase 5 induces the release of Rho GDP dissociation inhibitor to inhibit Rac1 activity in senescent cells. <b>2006</b> , 66, 2708-15  |      | 26  |
| 1130 | Erythropoietin fails to interfere with the antiproliferative and cytotoxic effects of antitumor drugs. <b>2006</b> , 12, 2232-8   |      | 46  |
| 1129 | Deletion of the triplet repeat encoding polyglutamine within the mouse Huntington's disease gene results in subtle behavioral/motor phenotypes in vivo and elevated levels of ATP with cellular senescence in vitro. <b>2006</b> , 15, 607-23                 |      | 39  |
| 1128 | The chemokine growth-regulated oncogene 1 (Gro-1) links RAS signaling to the senescence of stromal fibroblasts and ovarian tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 16472-7 | 11.5 | 256 |

|      |   |          |
|------|---|----------|
| 1127 | Skin epidermis lacking the c-Myc gene is resistant to Ras-driven tumorigenesis but can reacquire sensitivity upon additional loss of the p21Cip1 gene. <b>2006</b> , 20, 2024-9   | 71       |
| 1126 | Telomeres and telomerase: Pharmacological targets for new anticancer strategies?. <b>2006</b> , 6, 147-80   | 60       |
| 1125 | Coexpression of NRASQ61R and BRAFV600E in human melanoma cells activates senescence and increases susceptibility to cell-mediated cytotoxicity. <b>2006</b> , 66, 6503-11   | 64       |
| 1124 | The quail mesonephros: a new model for renal senescence?. <b>2006</b> , 43, 581-6   | 28       |
| 1123 | Apoptosis signal-regulating kinase 1 mediates cellular senescence induced by high glucose in endothelial cells. <b>2006</b> , 55, 1660-5  | 132      |
| 1122 | Cellular senescence in naevi and immortalisation in melanoma: a role for p16?. <b>2006</b> , 95, 496-505  | 322      |
| 1121 | Mitogen-activated protein kinase pathway regulates cell proliferation in venous ulcer fibroblasts. <b>2006</b> , 40, 59-66  | 34       |
| 1120 | Inhibitory effect of peroxiredoxin II (Prx II) on Ras-ERK-NFkappaB pathway in mouse embryonic fibroblast (MEF) senescence. <b>2006</b> , 40, 1182-9   | 29       |
| 1119 | Secretion of vascular endothelial growth factor by primary human fibroblasts at senescence. <b>2006</b> , 281, 29568-74   | 365      |
| 1118 | p53 Mediates the accelerated onset of senescence of endothelial progenitor cells in diabetes. <b>2006</b> , 281, 4339-47  | 114      |
| 1117 | Control of cellular senescence by CPEB. <b>2006</b> , 20, 2701-12   | 72       |
| 1116 | Selective pharmacologic inhibition of c-Jun NH2-terminal kinase radiosensitizes thyroid anaplastic cancer cell lines via induction of terminal growth arrest. <b>2006</b> , 16, 217-24  | 12       |
| 1115 | Cellular changes in boric acid-treated DU-145 prostate cancer cells. <b>2006</b> , 94, 884-90   | 68       |
| 1114 | Vascular smooth muscle cell senescence in atherosclerosis. <b>2006</b> , 72, 9-17   | 132      |
| 1113 | The human orthologue of Drosophila ecdysoneless protein interacts with p53 and regulates its function. <b>2006</b> , 66, 7167-75  | 20       |
| 1112 | Hutchinson-Gilford progeria mutant lamin A primarily targets human vascular cells as detected by an anti-Lamin A G608G antibody. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 2154-9 | 11.5 163 |
| 1111 | Cyclin D1 regulates cellular migration through the inhibition of thrombospondin 1 and ROCK signaling. <b>2006</b> , 26, 4240-56   | 148      |
| 1110 | Heme deficiency is associated with senescence and causes suppression of N-methyl-D-aspartate receptor subunits expression in primary cortical neurons. <b>2006</b> , 69, 697-705  | 53       |

|      |   |     |
|------|---|-----|
| 1109 | Agonist and antagonist of retinoic acid receptors cause similar changes in gene expression and induce senescence-like growth arrest in MCF-7 breast carcinoma cells. <b>2006</b> , 66, 8749-61      | 35  |
| 1108 | Inhibition of centrosome protein assembly leads to p53-dependent exit from the cell cycle. <b>2006</b> , 174, 625-30  | 81  |
| 1107 | Aneuploidy, stem cells and cancer. <b>2006</b> , 49-64  | 12  |
| 1106 | Mitochondrial fission and fusion mediators, hFis1 and OPA1, modulate cellular senescence. <b>2007</b> , 282, 22977-83   | 205 |
| 1105 | Short-term modulation of cell proliferation and apoptosis and preventive/therapeutic efficacy of various agents in a mammary cancer model. <b>2007</b> , 13, 5488-96                                | 43  |
| 1104 | Inhibition of both focal adhesion kinase and insulin-like growth factor-I receptor kinase suppresses glioma proliferation in vitro and in vivo. <b>2007</b> , 6, 1357-67                            | 178 |
| 1103 | The DNA binding domain of a papillomavirus E2 protein programs a chimeric nuclease to cleave integrated human papillomavirus DNA in HeLa cervical carcinoma cells. <b>2007</b> , 81, 6254-64        | 11  |
| 1102 | Down-regulation of phosphoglucose isomerase/autocrine motility factor expression sensitizes human fibrosarcoma cells to oxidative stress leading to cellular senescence. <b>2007</b> , 282, 36362-9 | 24  |
| 1101 | Loss of Emi1-dependent anaphase-promoting complex/cyclosome inhibition deregulates E2F target expression and elicits DNA damage-induced senescence. <b>2007</b> , 27, 7955-65                       | 28  |
| 1100 | Modulation of replicative senescence of diploid human cells by nuclear ERK signaling. <b>2007</b> , 282, 4136-51  | 47  |
| 1099 | Effect of the silybin-phosphatidylcholine complex (IdB 1016) on the development of mammary tumors in HER-2/neu transgenic mice. <b>2007</b> , 67, 2022-9  | 47  |
| 1098 | Age-dependent impairment of endothelial progenitor cells is corrected by growth-hormone-mediated increase of insulin-like growth-factor-1. <b>2007</b> , 100, 434-43                                | 239 |
| 1097 | DNA double-strand breaks form in bystander cells after microbeam irradiation of three-dimensional human tissue models. <b>2007</b> , 67, 4295-302   | 200 |
| 1096 | SV40 oncoproteins enhance asbestos-induced DNA double-strand breaks and abrogate senescence in murine mesothelial cells. <b>2007</b> , 67, 3637-45  | 39  |
| 1095 | Mitochondrial reactive oxygen species trigger hypoxia-inducible factor-dependent extension of the replicative life span during hypoxia. <b>2007</b> , 27, 5737-45                                   | 172 |
| 1094 | Senescence as an anticancer mechanism. <b>2007</b> , 25, 1852-7   | 68  |
| 1093 | Temozolomide induces senescence but not apoptosis in human melanoma cells. <b>2007</b> , 97, 1225-33  | 63  |
| 1092 | Mel-18, a polycomb group protein, regulates cell proliferation and senescence via transcriptional repression of Bmi-1 and c-Myc oncoproteins. <b>2007</b> , 18, 536-46                              | 121 |

|      |  |     |
|------|--|-----|
| 1091 | Novel pycnodysostosis mouse model uncovers cathepsin K function as a potential regulator of osteoclast apoptosis and senescence. <b>2007</b> , 16, 410-23  | 87  |
| 1090 | Extremely low doses of X-radiation can induce adaptive responses in mouse prostate. <b>2007</b> , 5, 315-22  | 15  |
| 1089 | Beryllium induces premature senescence in human fibroblasts. <b>2007</b> , 322, 70-9   | 25  |
| 1088 | Senescence in cultured trabecular meshwork cells. <b>2007</b> , 91, 808-11   | 6   |
| 1087 | MMP-9 short interfering RNA induced senescence resulting in inhibition of medulloblastoma growth via p16(INK4a) and mitogen-activated protein kinase pathway. <b>2007</b> , 67, 4956-64  | 45  |
| 1086 | Mitochondrial dysfunction accounts for the stochastic heterogeneity in telomere-dependent senescence. <b>2007</b> , 5, e110  | 486 |
| 1085 | Increased mitochondrial H <sub>2</sub> O <sub>2</sub> production promotes endothelial NF-kappaB activation in aged rat arteries. <b>2007</b> , 293, H37-47   | 245 |
| 1084 | In vitro expansion of tissue cells by conditional proliferation. <b>2007</b> , 140, 1-15   | 4   |
| 1083 | WRN at telomeres: implications for aging and cancer. <b>2007</b> , 120, 713-21   | 75  |
| 1082 | Inactivation of p53 function in cultured human mammary epithelial cells turns the telomere-length dependent senescence barrier from agonescence into crisis. <b>2007</b> , 6, 1927-36  | 57  |
| 1081 | Regulation of arginine methylation in endothelial cells: role in premature senescence and apoptosis. <b>2007</b> , 6, 2524-30  | 12  |
| 1080 | Ginkgo biloba extract reduces endothelial progenitor-cell senescence through augmentation of telomerase activity. <b>2007</b> , 49, 111-5  | 47  |
| 1079 | Therapeutic effects of autologous bone marrow cells and metabolic intervention in the ischemic hindlimb of spontaneously hypertensive rats involve reduced cell senescence and CXCR4/Akt/eNOS pathways. <b>2007</b> , 50, 424-33 | 40  |
| 1078 | Emodin induces growth arrest and death of human vascular smooth muscle cells through reactive oxygen species and p53. <b>2007</b> , 49, 253-60   | 33  |
| 1077 | Digital karyotyping reveals frequent inactivation of the dystrophin/DMD gene in malignant melanoma. <b>2007</b> , 6, 189-98  | 19  |
| 1076 | Programs for cell death: apoptosis is only one way to go. <b>2007</b> , 6, 686-95  | 88  |
| 1075 | Extension of human cell lifespan by nicotinamide phosphoribosyltransferase. <b>2007</b> , 282, 10841-5   | 255 |
| 1074 | High NaCl promotes cellular senescence. <b>2007</b> , 6, 3108-13   | 35  |

|      |   |     |
|------|---|-----|
| 1073 | Heterochromatin and its relationship to cell senescence and cancer therapy. <b>2007</b> , 6, 784-9  | 77  |
| 1072 | Cell divisions are required for L1 retrotransposition. <b>2007</b> , 27, 1264-70  | 75  |
| 1071 | p63, cellular senescence and tumor development. <b>2007</b> , 6, 305-11   | 25  |
| 1070 | Senescence-unrelated impediment of osteogenesis from Flk1+ bone marrow mesenchymal stem cells induced by total body irradiation and its contribution to long-term bone and hematopoietic injury. <b>2007</b> , 92, 889-96 | 32  |
| 1069 | Induction of cellular senescence by insulin-like growth factor binding protein-5 through a p53-dependent mechanism. <b>2007</b> , 18, 4543-52   | 129 |
| 1068 | H2O2 accelerates cellular senescence by accumulation of acetylated p53 via decrease in the function of SIRT1 by NAD+ depletion. <b>2007</b> , 20, 45-54   | 145 |
| 1067 | p53 mediates senescence-like arrest induced by chronic replicational stress. <b>2007</b> , 27, 5336-51  | 57  |
| 1066 | Chronic treatment with resveratrol induces redox stress- and ataxia telangiectasia-mutated (ATM)-dependent senescence in p53-positive cancer cells. <b>2007</b> , 282, 26759-26766  | 109 |
| 1065 | Molecular dissection of formation of senescence-associated heterochromatin foci. <b>2007</b> , 27, 2343-58  | 305 |
| 1064 | Senescent human fibroblasts increase the early growth of xenograft tumors via matrix metalloproteinase secretion. <b>2007</b> , 67, 3117-26   | 309 |
| 1063 | The ataxia telangiectasia-mutated target site Ser18 is required for p53-mediated tumor suppression. <b>2007</b> , 67, 11696-703   | 60  |
| 1062 | Hsp27 modulates p53 signaling and suppresses cellular senescence. <b>2007</b> , 67, 11779-88  | 111 |
| 1061 | Critical requirement for cell cycle inhibitors in sustaining nonproliferative states. <b>2007</b> , 176, 807-18   | 63  |
| 1060 | High levels of heat shock protein Hsp72 in cancer cells suppress default senescence pathways. <b>2007</b> , 67, 2373-81   | 94  |
| 1059 | p21 loss cooperates with INK4 inactivation facilitating immortalization and Bcl-2-mediated anchorage-independent growth of oncogene-transduced primary mouse fibroblasts. <b>2007</b> , 67, 4130-7                        | 7   |
| 1058 | Senescence mediates pituitary hypoplasia and restrains pituitary tumor growth. <b>2007</b> , 67, 10564-72   | 91  |
| 1057 | Inflammatory ROS promote and cooperate with the Fanconi anemia mutation for hematopoietic senescence. <b>2007</b> , 120, 1572-83  | 77  |
| 1056 | Skeletal muscle aging. <b>2007</b> , 17, 13-23  | 2   |

|      |   |         |
|------|---|---------|
| 1055 | Human papillomavirus E7 repression in cervical carcinoma cells initiates a transcriptional cascade driven by the retinoblastoma family, resulting in senescence. <b>2007</b> , 81, 2102-16  | 76      |
| 1054 | Inhibition of angiogenesis and tumor metastasis by targeting a matrix immobilized cryptic extracellular matrix epitope in laminin. <b>2007</b> , 67, 4353-63  | 22      |
| 1053 | Transforming growth factor-beta signaling in prostate stromal cells supports prostate carcinoma growth by up-regulating stromal genes related to tissue remodeling. <b>2007</b> , 67, 5737-46   | 68      |
| 1052 | The three-dimensional structure of human interphase chromosomes is related to the transcriptome map. <b>2007</b> , 27, 4475-87  | 137     |
| 1051 | Dynamic regulation of p53 subnuclear localization and senescence by MORC3. <b>2007</b> , 18, 1701-9   | 63      |
| 1050 | DNA damage-induced cellular senescence is sufficient to suppress tumorigenesis: a mouse model. <b>2007</b> , 204, 1453-61   | 55      |
| 1049 | Bmi-1 cooperates with H-Ras to transform human mammary epithelial cells via dysregulation of multiple growth-regulatory pathways. <b>2007</b> , 67, 10286-95  | 88      |
| 1048 | 3'-deoxy-3'-[18F]fluorothymidine positron emission tomography is a sensitive method for imaging the response of BRAF-dependent tumors to MEK inhibition. <b>2007</b> , 67, 11463-9  | 63      |
| 1047 | Runx2 deficiency and defective subnuclear targeting bypass senescence to promote immortalization and tumorigenic potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 19861-6 | 11.5 67 |
| 1046 | Both senescence and apoptosis induced by deprivation of growth factors were inhibited by a novel butyrolactone derivative through depressing integrin beta4 in vascular endothelial cells. <b>2007</b> , 14, 325-32                             | 15      |
| 1045 | Telomere dynamics and genome stability in the human pancreatic tumor cell line MIAPaCa-2. <b>2007</b> , 119, 60-7   | 3       |
| 1044 | Systemic therapy of spontaneous prostate cancer in transgenic mice with oncolytic herpes simplex viruses. <b>2007</b> , 67, 9371-9  | 43      |
| 1043 | p53 determines multidrug sensitivity of childhood neuroblastoma. <b>2007</b> , 67, 10351-60   | 51      |
| 1042 | LAP2alpha-binding protein LINT-25 is a novel chromatin-associated protein involved in cell cycle exit. <b>2007</b> , 120, 737-47  | 34      |
| 1041 | Definition of pRB- and p53-dependent and -independent steps in HIRA/ASF1a-mediated formation of senescence-associated heterochromatin foci. <b>2007</b> , 27, 2452-65   | 132     |
| 1040 | Induction of p53-dependent senescence by the MDM2 antagonist nutlin-3a in mouse cells of fibroblast origin. <b>2007</b> , 67, 7350-7  | 100     |
| 1039 | Vascular cell senescence: contribution to atherosclerosis. <b>2007</b> , 100, 15-26   | 422     |
| 1038 | Low oxygen tension alleviates oxidative damage and delays cellular senescence in G6PD-deficient cells. <b>2007</b> , 41, 571-9  | 12      |

|      |  |      |     |
|------|--|------|-----|
| 1037 | Cdc42 GTPase-activating protein deficiency promotes genomic instability and premature aging-like phenotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 1248-53           | 11.5 | 89  |
| 1036 | Cellular senescence is an important mechanism of tumor regression upon c-Myc inactivation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 13028-33                            | 11.5 | 328 |
| 1035 | Surveillance mechanism linking Bub1 loss to the p53 pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 8334-9  | 11.5 | 45  |
| 1034 | Dissecting the senescence-like program in tumor cells activated by Ras signaling. <b>2007</b> , 282, 2666-75   |      | 19  |
| 1033 | Protection against beta-amyloid-induced apoptosis by peptides interacting with beta-amyloid. <b>2007</b> , 282, 31238-49   |      | 34  |
| 1032 | A new steroid derivative stabilizes G-quadruplexes and induces telomere uncapping in human tumor cells. <b>2007</b> , 72, 631-40   |      | 71  |
| 1031 | Synthesis and human telomerase inhibition of a series of regioisomeric disubstituted amidoanthraquinones. <b>2007</b> , 55, 284-92   |      | 35  |
| 1030 | Apaf-1 and caspase-9 deficiency prevents apoptosis in a Bax-controlled pathway and promotes clonogenic survival during paclitaxel treatment. <b>2007</b> , 110, 3662-72  |      | 64  |
| 1029 | Biology of aging and cancer. <b>2007</b> , 14, 23-31   |      | 86  |
| 1028 | 5-Bromo-2-deoxyuridine activates DNA damage signalling responses and induces a senescence-like phenotype in p16-null lung cancer cells. <b>2007</b> , 18, 1053-68  |      | 22  |
| 1027 | Critical Roles of Insulin-Induced Senescence in Diabetic Vasculopathy. <b>2007</b> , 4, 194-200  |      |     |
| 1026 | Nucleus pulposus cellular longevity by telomerase gene therapy. <b>2007</b> , 32, 1188-96  |      | 34  |
| 1025 | Senescence in cells of the aging and degenerating intervertebral disc: immunolocalization of senescence-associated beta-galactosidase in human and sand rat discs. <b>2007</b> , 32, 321-7   |      | 160 |
| 1024 | Stress chaperones, mortalin, and pex19p mediate 5-aza-2' deoxycytidine-induced senescence of cancer cells by DNA methylation-independent pathway. <b>2007</b> , 62, 246-55   |      | 19  |
| 1023 | Sirt1 modulates premature senescence-like phenotype in human endothelial cells. <b>2007</b> , 43, 571-9  |      | 342 |
| 1022 | Establishment and characterization of Fabry disease endothelial cells with an extended lifespan. <b>2007</b> , 92, 137-44  |      | 21  |
| 1021 | 2,2,2-Trichloro-N-({2-[2-(dimethylamino)ethyl]-1,3-dioxo-2,3-dihydro-1H-benzo[de]isoquinolin-5-yl}carbonyl)acetamide (UNBS3157), a novel nonhematotoxic naphthalimide derivative with potent antitumor activity. <b>2007</b> , 50, 4122-34 |      | 113 |
| 1020 | Indigogenic substrates for detection and localization of enzymes. <b>2007</b> , 82, 73-103   |      | 48  |

|      |  |      |
|------|--|------|
| 1019 | Bone marrow-derived cells: the influence of aging and cellular senescence. <b>2007</b> , 67-88   | 57   |
| 1018 | Ageing or cancer: a review on the role of caretakers and gatekeepers. <b>2007</b> , 43, 2144-52  | 52   |
| 1017 | Senescent phenotypes of skin fibroblasts from patients with Tangier disease. <b>2007</b> , 357, 493-8  | 3    |
| 1016 | Hyaluronan preserves the proliferation and differentiation potentials of long-term cultured murine adipose-derived stromal cells. <b>2007</b> , 360, 1-6   | 49   |
| 1015 | FGF-2 suppresses cellular senescence of human mesenchymal stem cells by down-regulation of TGF-beta2. <b>2007</b> , 359, 108-14  | 102  |
| 1014 | Human RON receptor tyrosine kinase induces complete epithelial-to-mesenchymal transition but causes cellular senescence. <b>2007</b> , 360, 219-25   | 19   |
| 1013 | Establishment of a corneal epithelial cell line spontaneously derived from human limbal cells. <b>2007</b> , 84, 599-609   | 59   |
| 1012 | CHD5 is a tumor suppressor at human 1p36. <b>2007</b> , 128, 459-75  | 268  |
| 1011 | Cellular senescence in cancer and aging. <b>2007</b> , 130, 223-33   | 1245 |
| 1010 | Remodeling of chromatin structure in senescent cells and its potential impact on tumor suppression and aging. <b>2007</b> , 397, 84-93   | 141  |
| 1009 | Rat homolog of PinX1 is a nucleolar protein involved in the regulation of telomere length. <b>2007</b> , 400, 35-43  | 9    |
| 1008 | Downregulation of caveolin-1 affects bleomycin-induced growth arrest and cellular senescence in A549 cells. <b>2007</b> , 39, 1964-74  | 38   |
| 1007 | The expression levels of the translational factors eEF1A 1/2 correlate with cell growth but not apoptosis in hepatocellular carcinoma cell lines with different differentiation grade. <b>2007</b> , 89, 1544-52 | 57   |
| 1006 | Mortalin sensitizes human cancer cells to MKT-077-induced senescence. <b>2007</b> , 252, 259-69  | 72   |
| 1005 | A comparison of tenocytes and mesenchymal stem cells for use in flexor tendon tissue engineering. <b>2007</b> , 32, 597-605  | 148  |
| 1004 | Phosphorylation of HuR by Chk2 regulates SIRT1 expression. <b>2007</b> , 25, 543-57  | 437  |
| 1003 | Downregulation of Wnt signaling is a trigger for formation of facultative heterochromatin and onset of cell senescence in primary human cells. <b>2007</b> , 27, 183-196   | 180  |
| 1002 | Outgrowing endothelial progenitor-derived cells display high sensitivity to angiogenesis modulators and delayed senescence. <b>2007</b> , 581, 2663-9  | 11   |



|      |   |         |
|------|---|---------|
| 1001 | Inhibitory role of RhoA on senescence-like growth arrest by a mechanism involving modulation of phosphatase activity. <b>2007</b> , 581, 3800-4   | 1       |
| 1000 | Single exposure of human fibroblasts (WI-38) to a sub-cytotoxic dose of UVB induces premature senescence. <b>2007</b> , 581, 4342-8   | 26      |
| 999  | Methods to detect biomarkers of cellular senescence: the senescence-associated beta-galactosidase assay. <b>2007</b> , 371, 21-31   | 316     |
| 998  | A Novel Mechanism of Irreversible Cell Cycle Arrest in Cellular Senescence. <b>2007</b> , 49, 47-53   | 2       |
| 997  | Apoptosis, Senescence, and Cancer. <b>2007</b> ,  | 6       |
| 996  | Telomeric DNA induces apoptosis and senescence of human breast carcinoma cells. <b>2007</b> , 9, R13  | 47      |
| 995  | Accelerated cellular senescence in degenerate intervertebral discs: a possible role in the pathogenesis of intervertebral disc degeneration. <b>2007</b> , 9, R45                               | 297     |
| 994  | Tissue Engineering. <b>2007</b> ,   | 4       |
| 993  | Biological Aging. <b>2007</b> ,   | 4       |
| 992  | DNA damage, cellular senescence and organismal ageing: causal or correlative?. <b>2007</b> , 35, 7417-28  | 292     |
| 991  | Two faces of p53: aging and tumor suppression. <b>2007</b> , 35, 7475-84  | 294     |
| 990  | Methods of cellular senescence induction using oxidative stress. <b>2007</b> , 371, 179-89  | 62      |
| 989  | Cell size and invasion in TGF-beta-induced epithelial to mesenchymal transition is regulated by activation of the mTOR pathway. <b>2007</b> , 178, 437-51                                       | 445     |
| 988  | By blocking apoptosis, Bcl-2 in p38-dependent manner promotes cell cycle arrest and accelerated senescence after DNA damage and serum withdrawal. <b>2007</b> , 6, 2171-7                       | 33      |
| 987  | p53-dependent integration of telomere and growth factor deprivation signals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 4431-6 | 11.5 35 |
| 986  | Myelodysplastic syndromes, aging, and age: correlations, common mechanisms, and clinical implications. <b>2007</b> , 48, 1900-9   | 19      |
| 985  | Mechanisms of ageing in chronic allograft nephropathy. <b>2007</b> , 3, 7-17  | 1       |
| 984  | Adaptive response for chromosomal inversions in pKZ1 mouse prostate induced by low doses of X radiation delivered after a high dose. <b>2007</b> , 167, 682-92                                  | 55      |

|     |   |      |
|-----|---|------|
| 983 | Motif module map reveals enforcement of aging by continual NF-kappaB activity. <b>2007</b> , 21, 3244-57  | 340  |
| 982 | Fibroblast stimulation of blood vessel development and cancer cell invasion in a subrenal capsule xenograft model: stress-induced premature senescence does not increase effect. <b>2007</b> , 9, 418-26  | 18   |
| 981 | Spontaneous transformation of human adult nontumorigenic stem cells to cancer stem cells is driven by genomic instability in a human model of glioblastoma. <b>2007</b> , 25, 1478-89   | 129  |
| 980 | Severe intestinal obstruction on induced smooth muscle-specific ablation of the transcription factor SRF in adult mice. <b>2007</b> , 133, 1948-59  | 33   |
| 979 | Mycoplasmal membrane protein p37 promotes malignant changes in mammalian cells. <b>2007</b> , 53, 270-6   | 8    |
| 978 | Stem cell ageing: does it happen and can we intervene?. <b>2007</b> , 9, 1-20   | 1456 |
| 977 | William J. Cunliffe Scientific Awards. Characteristics and pathomechanisms of endogenously aged skin. <b>2007</b> , 214, 352-60   | 103  |
| 976 | [The mechanism of vascular senescence regulated by longevity gene, Sirt1]. <b>2007</b> , 44, 194-7  | 2    |
| 975 | Stem Cells and Cardiac Aging. <b>2007</b> , 171-181   | 4    |
| 974 | Valproic acid induces non-apoptotic cell death mechanisms in multiple myeloma cell lines. <b>2007</b> ,   |      |
| 973 | Ascorbic acid extends replicative life span of human embryonic fibroblast by reducing DNA and mitochondrial damages. <b>2007</b> , 1, 105-12  | 16   |
| 972 | Increased chromosome instability and accumulation of DNA double-strand breaks in Werner syndrome cells. <b>2007</b> , 48, 219-31  | 31   |
| 971 | . <b>2007</b> ,   | 3    |
| 970 | Overview of Stem and Artificial Cells. 1313-1372  |      |
| 969 | Water-soluble C60 fullerene prevents degeneration of articular cartilage in osteoarthritis via down-regulation of chondrocyte catabolic activity and inhibition of cartilage degeneration during disease development. <b>2007</b> , 56, 3307-18 | 62   |
| 968 | Acute apoptosis by cisplatin requires induction of reactive oxygen species but is not associated with damage to nuclear DNA. <b>2007</b> , 120, 175-80  | 169  |
| 967 | The effects of aging on tumor growth and angiogenesis are tumor-cell dependent. <b>2007</b> , 120, 753-60   | 39   |
| 966 | Iron chelation study in a normal human hepatocyte cell line suggests that tumor necrosis factor receptor-associated protein 1 (TRAP1) regulates production of reactive oxygen species. <b>2007</b> , 100, 474-86                                | 58   |

|     |   |     |
|-----|---|-----|
| 965 | Features that determine telomere homolog oligonucleotide-induced therapeutic DNA damage-like responses in cancer cells. <b>2007</b> , 210, 582-95   | 24  |
| 964 | Molecular signaling and genetic pathways of senescence: Its role in tumorigenesis and aging. <b>2007</b> , 210, 567-74  | 90  |
| 963 | Induction of senescence in MYCN amplified neuroblastoma cell lines by hydroxyurea. <b>2007</b> , 46, 130-42   | 27  |
| 962 | Suppression of free-radicals and protection against H <sub>2</sub> O <sub>2</sub> -induced oxidative damage in HPF-1 cell by oxidized phenolic compounds present in black tea. <b>2007</b> , 105, 1349-1356 | 60  |
| 961 | Replicative senescence, telomere shortening and cell proliferation rate in Gaddi goat's skin fibroblast cell line. <b>2007</b> , 31, 1257-64  | 12  |
| 960 | Estrogens decrease gamma-ray-induced senescence and maintain cell cycle progression in breast cancer cells independently of p53. <b>2007</b> , 67, 1187-200   | 11  |
| 959 | Does p16 <sup>ink4a</sup> expression increase with the number of cell doublings in normal and malignant lymphocytes?. <b>2007</b> , 31, 1649-58   | 8   |
| 958 | Manipulation of cell cycle progression can counteract the apparent loss of correction frequency following oligonucleotide-directed gene repair. <b>2007</b> , 8, 9  | 15  |
| 957 | The ageing male reproductive tract. <b>2007</b> , 211, 206-18   | 66  |
| 956 | p53: at the crossroad between cancer and ageing. <b>2007</b> , 211, 124-33  | 60  |
| 955 | Multiple Molecular pathways explain the anti-proliferative effect of valproic acid on prostate cancer cells in vitro and in vivo. <b>2007</b> , 67, 1099-110  | 65  |
| 954 | NF-kappaB represses E-cadherin expression and enhances epithelial to mesenchymal transition of mammary epithelial cells: potential involvement of ZEB-1 and ZEB-2. <b>2007</b> , 26, 711-24                 | 477 |
| 953 | Role of 2-5A-dependent RNase-L in senescence and longevity. <b>2007</b> , 26, 3081-8  | 37  |
| 952 | TAK1 represses transcription of the human telomerase reverse transcriptase gene. <b>2007</b> , 26, 5258-66  | 34  |
| 951 | Nuclear colocalization and interaction between bcl-xL and cdk1(cdc2) during G2/M cell-cycle checkpoint. <b>2007</b> , 26, 5851-65   | 43  |
| 950 | Palaeoclimate: when the world turned cold. <b>2007</b> , 445, 607-8   | 19  |
| 949 | Barriers to Ras transformation. <b>2007</b> , 9, 483-5  | 10  |
| 948 | Anchoring RCC1 by the tail. <b>2007</b> , 9, 485-7  | 2   |

|     |  |      |
|-----|--|------|
| 947 | Dose-dependent oncogene-induced senescence in vivo and its evasion during mammary tumorigenesis. <b>2007</b> , 9, 493-505  | 351  |
| 946 | Cellular senescence: when bad things happen to good cells. <b>2007</b> , 8, 729-40   | 2873 |
| 945 | Induction of apoptosis and cellular senescence in mice lacking transcription elongation factor, Elongin A. <b>2007</b> , 14, 716-26  | 12   |
| 944 | Failure of stress-induced downregulation of Bcl-2 contributes to apoptosis resistance in senescent human diploid fibroblasts. <b>2007</b> , 14, 1020-8   | 58   |
| 943 | Human lipodystrophies linked to mutations in A-type lamins and to HIV protease inhibitor therapy are both associated with prelamin A accumulation, oxidative stress and premature cellular senescence. <b>2007</b> , 14, 1759-67 | 158  |
| 942 | Spreading of mammalian DNA-damage response factors studied by CHIP-chip at damaged telomeres. <b>2007</b> , 26, 2707-18  | 73   |
| 941 | The mouse polyubiquitin gene UbC is essential for fetal liver development, cell-cycle progression and stress tolerance. <b>2007</b> , 26, 2693-706   | 121  |
| 940 | Increased tumor cell dissemination and cellular senescence in the absence of beta1-integrin function. <b>2007</b> , 26, 2832-42  | 86   |
| 939 | Telomere dysfunction suppresses spontaneous tumorigenesis in vivo by initiating p53-dependent cellular senescence. <b>2007</b> , 8, 497-503  | 167  |
| 938 | BS69 is involved in cellular senescence through the p53-p21Cip1 pathway. <b>2007</b> , 8, 952-8  | 11   |
| 937 | Absence of senescence-associated beta-galactosidase activity in human melanocytic nevi in vivo. <b>2007</b> , 127, 2469-71   | 25   |
| 936 | Elevated Bmi-1 expression is associated with dysplastic cell transformation during oral carcinogenesis and is required for cancer cell replication and survival. <b>2007</b> , 96, 126-33  | 126  |
| 935 | Cellular senescence and chromatin organisation. <b>2007</b> , 96, 686-91   | 61   |
| 934 | Accelerated senescence of human peritoneal mesothelial cells exposed to high glucose: the role of TGF-beta1. <b>2007</b> , 87, 345-56  | 50   |
| 933 | Role of telomeres and telomerase in genomic instability, senescence and cancer. <b>2007</b> , 87, 1071-6   | 72   |
| 932 | Cancer biology: gone but not forgotten. <b>2007</b> , 445, 606-7   | 41   |
| 931 | The common biology of cancer and ageing. <b>2007</b> , 448, 767-74   | 781  |
| 930 | Accumulation of multiple forms of lamin A with down-regulation of FACE-1 suppresses growth in senescent human cells. <b>2007</b> , 12, 397-406   | 13   |

|     |  |     |
|-----|--|-----|
| 929 | Reduced endothelial progenitor cells in European and South Asian men with atherosclerosis. <b>2007</b> , 37, 35-41   | 24  |
| 928 | Occludin-mediated premature senescence is a fail-safe mechanism against tumorigenesis in breast carcinoma cells. <b>2007</b> , 98, 1027-34                               | 34  |
| 927 | ESE-3, an Ets family transcription factor, is up-regulated in cellular senescence. <b>2007</b> , 98, 1468-75   | 14  |
| 926 | Astrocytes aged in vitro show a decreased neuroprotective capacity. <b>2007</b> , 101, 794-805   | 102 |
| 925 | Functional role of the Werner syndrome RecQ helicase in human fibroblasts. <b>2007</b> , 6, 53-61  | 58  |
| 924 | Increased polyploidy in aortic vascular smooth muscle cells during aging is marked by cellular senescence. <b>2007</b> , 6, 257-60                                       | 50  |
| 923 | Differential effects of genotoxic stress on both concurrent body growth and gradual senescence in the adult zebrafish. <b>2007</b> , 6, 209-24                           | 67  |
| 922 | Dynamic assembly of chromatin complexes during cellular senescence: implications for the growth arrest of human melanocytic nevi. <b>2007</b> , 6, 577-91                | 73  |
| 921 | Regulation of replicative senescence by insulin-like growth factor-binding protein 3 in human umbilical vein endothelial cells. <b>2007</b> , 6, 535-45                  | 61  |
| 920 | Restoration of peroxisomal catalase import in a model of human cellular aging. <b>2007</b> , 8, 1590-600   | 80  |
| 919 | The genome and epigenome of malignant melanoma. <b>2007</b> , 115, 1161-76   | 126 |
| 918 | Human Cdc45 is a proliferation-associated antigen. <b>2007</b> , 274, 3669-3684  | 52  |
| 917 | Effects of pH-neutral, super-oxidised solution on human dermal fibroblasts in vitro. <b>2007</b> , 4, 241-50   | 17  |
| 916 | Hypoxia reoxygenation induces premature senescence in neonatal SD rat cardiomyocytes. <b>2007</b> , 28, 44-51  | 19  |
| 915 | Pseudolaric acid B induces apoptosis, senescence, and mitotic arrest in human breast cancer MCF-7. <b>2007</b> , 28, 1975-83   | 41  |
| 914 | Cellular senescence and cancer treatment. <b>2007</b> , 1775, 5-20   | 96  |
| 913 | Autophagic cell death, polyploidy and senescence induced in breast tumor cells by the substituted pyrrole JG-03-14, a novel microtubule poison. <b>2007</b> , 74, 981-91 | 67  |
| 912 | Physiological deterioration associated with breeding in female mice: a model for the study of senescence and aging. <b>2007</b> , 146, 695-701                           | 6   |

|     |   |     |
|-----|---|-----|
| 911 | Short telomeres limit tumor progression in vivo by inducing senescence. <b>2007</b> , 11, 461-9   | 238 |
| 910 | The role of L- and T-type Ca <sup>2+</sup> currents during the in vitro aging of murine myogenic (i28) cells in culture. <b>2007</b> , 41, 479-89   | 10  |
| 909 | Oxidative stress contributes to accelerated development of the senescent phenotype in human peritoneal mesothelial cells exposed to high glucose. <b>2007</b> , 42, 636-41  | 36  |
| 908 | Busulfan-induced senescence is dependent on ROS production upstream of the MAPK pathway. <b>2007</b> , 42, 1858-65  | 72  |
| 907 | Partial uncoupling of oxidative phosphorylation induces premature senescence in human fibroblasts and yeast mother cells. <b>2007</b> , 43, 947-58  | 68  |
| 906 | Recovery of cell cycle delay following targeted gene repair by oligonucleotides. <b>2007</b> , 6, 1529-35   | 22  |
| 905 | Changes in the level and distribution of Ku proteins during cellular senescence. <b>2007</b> , 6, 1740-8  | 48  |
| 904 | The short-lived fish <i>Nothobranchius furzeri</i> as a new model system for aging studies. <b>2007</b> , 42, 81-9  | 104 |
| 903 | The gene expression profile of psoralen plus UVA-induced premature senescence in skin fibroblasts resembles a combined DNA-damage and stress-induced cellular senescence response phenotype. <b>2007</b> , 42, 911-23 | 23  |
| 902 | Glioma-associated endothelial cells show evidence of replicative senescence. <b>2007</b> , 313, 1192-202  | 21  |
| 901 | Normal or stress-induced fibroblast senescence involves COX-2 activity. <b>2007</b> , 313, 3046-56  | 49  |
| 900 | Radiation-induced senescence-like phenotype in proliferating and plateau-phase vascular endothelial cells. <b>2007</b> , 313, 3326-36   | 40  |
| 899 | An inhibitory effect on cell proliferation by blockage of the MAPK/estrogen receptor/MDM2 signal pathway in gynecologic cancer. <b>2007</b> , 105, 341-50   | 33  |
| 898 | Antisense targeting human papillomavirus type 16 E6 and E7 genes contributes to apoptosis and senescence in SiHa cervical carcinoma cells. <b>2007</b> , 106, 299-304   | 45  |
| 897 | Accumulation of senescent cells in mitotic tissue of aging primates. <b>2007</b> , 128, 36-44   | 465 |
| 896 | Reassessing the role of p53 in cancer and ageing from an evolutionary perspective. <b>2007</b> , 128, 293-302   | 22  |
| 895 | Cellular senescence in endothelial cells from atherosclerotic patients is accelerated by oxidative stress associated with cardiovascular risk factors. <b>2007</b> , 128, 662-71                                      | 115 |
| 894 | Breaking news: high-speed race ends in arrest--how oncogenes induce senescence. <b>2007</b> , 17, 529-36  | 68  |

|     |   |     |
|-----|---|-----|
| 893 | The pathways to tumor suppression via route p38. <b>2007</b> , 32, 364-71   | 215 |
| 892 | Genotoxic effects of particles of surgical cobalt chrome alloy on human cells of different age in vitro. <b>2007</b> , 619, 45-58   | 65  |
| 891 | The role of p38 kinase in the activation of the premature senescence program in transformed mouse fibroblasts. <b>2007</b> , 1, 151-161   |     |
| 890 | Alterations to nuclear architecture and genome behavior in senescent cells. <b>2007</b> , 1100, 250-63  | 71  |
| 889 | The role of the MORF/MRG family of genes in cell growth, differentiation, DNA repair, and thereby aging. <b>2007</b> , 1100, 299-305  | 17  |
| 888 | Knocking down p53 with siRNA does not affect the overexpression of p21WAF-1 after exposure of IMR-90 hTERT fibroblasts to a sublethal concentration of H2O2 leading to premature senescence. <b>2007</b> , 1100, 316-22 | 6   |
| 887 | Beta-galactosidase activity as a biomarker of replicative senescence during the course of human fibroblast cultures. <b>2007</b> , 1100, 323-32   | 37  |
| 886 | A dual role of p21 in stem cell aging. <b>2007</b> , 1100, 333-44   | 54  |
| 885 | Sugar-induced premature aging and altered differentiation in human epidermal keratinocytes. <b>2007</b> , 1100, 524-9   | 26  |
| 884 | Acquisition of oxidative DNA damage during senescence: the first step toward carcinogenesis?. <b>2007</b> , 1119, 51-63   | 36  |
| 883 | Protein oxidative modifications and replicative senescence of WI-38 human embryonic fibroblasts. <b>2007</b> , 1119, 88-96  | 34  |
| 882 | Cyclin D1 overexpression permits the reproducible detection of senescent human vascular smooth muscle cells. <b>2007</b> , 1119, 20-31  | 37  |
| 881 | Molecular mechanisms of skin aging: state of the art. <b>2007</b> , 1119, 40-50   | 177 |
| 880 | Clonal attenuation of somatic cells in aging mammals: a review of supportive evidence and its biomedical significance. <b>2007</b> , 1119, 1-8  | 5   |
| 879 | Expression of the p16INK4A gene is associated closely with senescence of human mesenchymal stem cells and is potentially silenced by DNA methylation during in vitro expansion. <b>2007</b> , 25, 2371-82               | 175 |
| 878 | From old organisms to new molecules: integrative biology and therapeutic targets in accelerated human ageing. <b>2007</b> , 64, 2620-41   | 31  |
| 877 | Telomerase activity in HeLa cervical carcinoma cell line proliferation. <b>2007</b> , 8, 163-72   | 15  |
| 876 | Identification of cultivation-independent markers of human endothelial cell senescence in vitro. <b>2007</b> , 8, 383-97  | 39  |

|     |   |     |
|-----|---|-----|
| 875 | Heme oxygenase-1 and interleukin-11 are overexpressed in stress-induced premature senescence of human WI-38 fibroblasts induced by tert-butylhydroperoxide and ethanol. <b>2007</b> , 8, 409-22   | 15  |
| 874 | Serum-free cultivation of adult normal human choroidal melanocytes. <b>2007</b> , 245, 1487-94  | 8   |
| 873 | Telomere shortening and ageing. <b>2007</b> , 40, 314-24  | 103 |
| 872 | Dicarbonyl-mediated protein modifications affect matrix metalloproteinase (MMP) activity. <b>2007</b> , 40, 357-61  | 4   |
| 871 | Cellular senescence and chromatin structure. <b>2007</b> , 116, 431-40  | 117 |
| 870 | Effect of cell cycle inhibitor p19ARF on senescence of human diploid cell. <b>2007</b> , 50, 155-60   | 1   |
| 869 | Apoptosis is involved in the senescence of endothelial cells induced by angiotensin II. <b>2008</b> , 32, 264-70  | 27  |
| 868 | Tumor cells can escape DNA-damaging cisplatin through DNA endoreduplication and reversible polyploidy. <b>2008</b> , 32, 1031-43  | 165 |
| 867 | Breast cancer epigenetics: normal human mammary epithelial cells as a model system. <b>2008</b> , 86, 1315-28   | 62  |
| 866 | MRGing chromatin dynamics and cellular senescence. <b>2008</b> , 50, 133-41   | 19  |
| 865 | Comparison of the effects of 40% oxygen and two atmospheric absolute air pressure conditions on stress-induced premature senescence of normal human diploid fibroblasts. <b>2008</b> , 13, 447-58 | 27  |
| 864 | Premature senescence of human endothelial cells induced by inhibition of glutaminase. <b>2008</b> , 9, 247-59   | 69  |
| 863 | Angiotensin II induces endothelial cell senescence via the activation of mitogen-activated protein kinases. <b>2008</b> , 26, 459-66  | 34  |
| 862 | Pathogenesis of osteoarthritis: chondrocyte replicative senescence or apoptosis?. <b>2008</b> , 74, 356-62  | 7   |
| 861 | P53 mutations in stromal fibroblasts sensitize tumors against chemotherapy. <b>2008</b> , 123, 967-71   | 34  |
| 860 | Constitutive overexpression of CDC25A in primary human mammary epithelial cells results in both defective DNA damage response and chromosomal breaks at fragile sites. <b>2008</b> , 123, 1466-71 | 15  |
| 859 | Suppression of human tumor cell proliferation by Smurf2-induced senescence. <b>2008</b> , 215, 613-20   | 13  |
| 858 | Overexpression of spindlin1 induces metaphase arrest and chromosomal instability. <b>2008</b> , 217, 400-8  | 39  |



|     |   |     |
|-----|---|-----|
| 857 | Adult olfactory bulbs from primates provide reliable ensheathing glia for cell therapy. <b>2008</b> , 56, 539-51  | 36  |
| 856 | Telomere shortening in the damaged small bile ducts in primary biliary cirrhosis reflects ongoing cellular senescence. <b>2008</b> , 48, 186-95   | 96  |
| 855 | Hereditary optic neuropathies share a common mitochondrial coupling defect. <b>2008</b> , 63, 794-8   | 102 |
| 854 | LNCaP prostate cancer cells are insensitive to zinc-induced senescence. <b>2008</b> , 22, 242-7   | 6   |
| 853 | Rapid cell senescence and apoptosis in lymphocytes and granulocytes and absence of GM-CSF receptor in congenital dysgranulopoietic neutropenia. <b>2008</b> , 32, 235-42                                  | 4   |
| 852 | The effect of sulfated hyaluronan on the morphological transformation and activity of cultured human astrocytes. <b>2008</b> , 29, 3503-13  | 17  |
| 851 | Low-dose aspirin promotes endothelial progenitor cell migration and adhesion and prevents senescence. <b>2008</b> , 32, 761-8   | 32  |
| 850 | (+)-Discodermolide: Total Synthesis, Construction of Novel Analogues, and Biological Evaluation. <b>2007</b> , 64, 261-298  | 54  |
| 849 | Sustained endothelial progenitor cell dysfunction after chronic hypoxia-induced pulmonary hypertension. <b>2008</b> , 26, 1017-26   | 65  |
| 848 | Bromodeoxyuridine induces senescence in neural stem and progenitor cells. <b>2008</b> , 26, 3218-27   | 39  |
| 847 | Program of premature senescence is not induced by sodium butyrate in transformants with JNK1,2 knockout. <b>2008</b> , 2, 601-608   |     |
| 846 | Increased senescence and reduced functional ability of fetal endothelial progenitor cells in pregnancies complicated by preeclampsia without intrauterine growth restriction. <b>2008</b> , 199, 259.e1-7 | 17  |
| 845 | Increased levels of a particular phosphatidylcholine species in senescent human dermal fibroblasts in vitro. <b>2008</b> , 21, 70-8   | 6   |
| 844 | Fibroblast dysfunction is a key factor in the non-healing of chronic venous leg ulcers. <b>2008</b> , 128, 2526-40  | 118 |
| 843 | SIRT6 is a histone H3 lysine 9 deacetylase that modulates telomeric chromatin. <b>2008</b> , 452, 492-6   | 835 |
| 842 | Resveratrol reduces endothelial progenitor cells senescence through augmentation of telomerase activity by Akt-dependent mechanisms. <b>2008</b> , 155, 387-94  | 89  |
| 841 | Death through a tragedy: mitotic catastrophe. <b>2008</b> , 15, 1153-62   | 447 |
| 840 | BRAF(E600) in benign and malignant human tumours. <b>2008</b> , 27, 877-95  | 216 |

|     |  |     |
|-----|--|-----|
| 839 | Transformation, genomic instability and senescence mediated by platelet/megakaryocyte glycoprotein Ibalpha. <b>2008</b> , 27, 1599-609                                   | 13  |
| 838 | Cellular senescence bypass screen identifies new putative tumor suppressor genes. <b>2008</b> , 27, 1961-70  | 50  |
| 837 | High-dose irradiation enhances the expression of a transgene controlled by the immediate-early CMV promoter in stably transfected tumor cells. <b>2008</b> , 42, 442-448 | 1   |
| 836 | Bach1 inhibits oxidative stress-induced cellular senescence by impeding p53 function on chromatin. <b>2008</b> , 15, 1246-54   | 70  |
| 835 | Coordinate regulation of Fanconi anemia gene expression occurs through the Rb/E2F pathway. <b>2008</b> , 27, 4798-808  | 49  |
| 834 | Critical pathways in cellular senescence and immortalization revealed by gene expression profiling. <b>2008</b> , 27, 5975-87  | 171 |
| 833 | Aurora A overexpression induces cellular senescence in mammary gland hyperplastic tumors developed in p53-deficient mice. <b>2008</b> , 27, 4305-14                      | 46  |
| 832 | Drug-induced senescence bystander proliferation in prostate cancer cells in vitro and in vivo. <b>2008</b> , 98, 1244-9  | 34  |
| 831 | Opposing roles for p16Ink4a and p19Arf in senescence and ageing caused by BubR1 insufficiency. <b>2008</b> , 10, 825-36  | 282 |
| 830 | Telomere dysfunction and tumour suppression: the senescence connection. <b>2008</b> , 8, 450-8   | 298 |
| 829 | Living on a break: cellular senescence as a DNA-damage response. <b>2008</b> , 8, 512-22   | 692 |
| 828 | Antagonistic control of cell fates by JNK and p38-MAPK signaling. <b>2008</b> , 15, 89-93  | 65  |
| 827 | Premature senescence of balding dermal papilla cells in vitro is associated with p16(INK4a) expression. <b>2008</b> , 128, 1088-94                                       | 74  |
| 826 | Comment on "Absence of senescence-associated beta-galactosidase activity in human melanocytic nevi in vivo". <b>2008</b> , 128, 1581; author reply 1583-4                | 5   |
| 825 | Comment on "Absence of senescence-associated beta-galactosidase activity in human melanocytic nevi in vivo". <b>2008</b> , 128, 1582-3; author reply 1583-4              | 13  |
| 824 | Time- and dose-dependent effects of chronic wound fluid on human adult dermal fibroblasts. <b>2008</b> , 34, 347-56  | 11  |
| 823 | Delayed kinetics of DNA double-strand break processing in normal and pathological aging. <b>2008</b> , 7, 89-100   | 169 |
| 822 | Induction of premature senescence in cardiomyocytes by doxorubicin as a novel mechanism of myocardial damage. <b>2008</b> , 7, 125-36                                    | 127 |

|     |   |     |
|-----|---|-----|
| 821 | Age-related intrinsic changes in human bone-marrow-derived mesenchymal stem cells and their differentiation to osteoblasts. <b>2008</b> , 7, 335-43   | 554 |
| 820 | Repression of the SUMO-specific protease Senp1 induces p53-dependent premature senescence in normal human fibroblasts. <b>2008</b> , 7, 609-21  | 49  |
| 819 | p16INK4a-induced senescence is disabled by melanoma-associated mutations. <b>2008</b> , 7, 733-45   | 53  |
| 818 | ING1a expression increases during replicative senescence and induces a senescent phenotype. <b>2008</b> , 7, 783-94   | 48  |
| 817 | Enhanced glycogenesis is involved in cellular senescence via GSK3/GS modulation. <b>2008</b> , 7, 894-907   | 63  |
| 816 | Oncogenic role of miR-17-92 cluster in anaplastic thyroid cancer cells. <b>2008</b> , 99, 1147-54   | 186 |
| 815 | In vitro polydeoxyribonucleotide effects on human pre-adipocytes. <b>2008</b> , 41, 739-54  | 39  |
| 814 | Spontaneously immortalized mouse mesothelial cells display characteristics of malignant transformation. <b>2008</b> , 41, 894-908   | 7   |
| 813 | TGF-beta1-induced cardiac myofibroblasts are nonproliferating functional cells carrying DNA damages. <b>2008</b> , 314, 1480-94   | 22  |
| 812 | Aging by epigenetics--a consequence of chromatin damage?. <b>2008</b> , 314, 1909-17  | 120 |
| 811 | Dual roles of telomere dysfunction in initiation and suppression of tumorigenesis. <b>2008</b> , 314, 1973-9  | 25  |
| 810 | Telomere dysfunction in human keratinocytes elicits senescence and a novel transcription profile. <b>2008</b> , 314, 2434-47  | 13  |
| 809 | Tumor suppressor gene insulin-like growth factor binding protein-related protein 1 (IGFBP-rP1) induces senescence-like growth arrest in colorectal cancer cells. <b>2008</b> , 85, 141-5      | 25  |
| 808 | Nevirapine induces growth arrest and premature senescence in human cervical carcinoma cells. <b>2008</b> , 111, 344-9   | 24  |
| 807 | Increased abundance of cytoplasmic and nuclear caveolin 1 in human diploid fibroblasts in H(2)O(2)-induced premature senescence and interplay with p38alpha(MAPK). <b>2008</b> , 582, 1685-92 | 28  |
| 806 | Proteasome modulates mitochondrial function during cellular senescence. <b>2008</b> , 44, 403-14  | 36  |
| 805 | Prematurely senescent ARPE-19 cells display features of age-related macular degeneration. <b>2008</b> , 44, 1348-61   | 53  |
| 804 | Role of TGF-beta1-independent changes in protein neosynthesis, p38alphaMAPK, and cdc42 in hydrogen peroxide-induced senescence-like morphogenesis. <b>2008</b> , 44, 1732-51                  | 16  |

|     |  |     |
|-----|--|-----|
| 803 | Screening of senescence-associated genes with specific DNA array reveals the role of IGFBP-3 in premature senescence of human diploid fibroblasts. <b>2008</b> , 44, 1817-32 | 44  |
| 802 | Oxidative stress-mediated early senescence contributes to the short replicative life span of human peritoneal mesothelial cells. <b>2008</b> , 45, 460-7                     | 29  |
| 801 | Small molecular antioxidants effectively protect from PUVA-induced oxidative stress responses underlying fibroblast senescence and photoaging. <b>2008</b> , 45, 636-44      | 33  |
| 800 | YY1 restrained cell senescence through repressing the transcription of p16. <b>2008</b> , 1783, 1876-83  | 37  |
| 799 | Declining cellular fitness with age promotes cancer initiation by selecting for adaptive oncogenic mutations. <b>2008</b> , 1785, 1-11                                       | 37  |
| 798 | Ageing and atherosclerosis: Mechanisms and therapeutic options. <b>2008</b> , 75, 1251-61  | 30  |
| 797 | Accelerated senescence: an emerging role in tumor cell response to chemotherapy and radiation. <b>2008</b> , 76, 947-57  | 218 |
| 796 | Akt determines replicative senescence and oxidative or oncogenic premature senescence and sensitizes cells to oxidative apoptosis. <b>2008</b> , 14, 458-70                  | 574 |
| 795 | Cellular senescence in vivo: a barrier to tumorigenesis. <b>2008</b> , 20, 150-5   | 200 |
| 794 | Identification of replicative senescence-associated genes in human umbilical vein endothelial cells by an annealing control primer system. <b>2008</b> , 43, 286-95          | 19  |
| 793 | In contrast to lung fibroblasts--no signs of senescence in skin fibroblasts of patients with emphysema. <b>2008</b> , 43, 623-628  | 6   |
| 792 | Controversial issue: is it safe to employ mesenchymal stem cells in cell-based therapies?. <b>2008</b> , 43, 1018-23   | 96  |
| 791 | Aged keratinocyte phenotyping: morphology, biochemical markers and effects of Dead Sea minerals. <b>2008</b> , 43, 947-57  | 36  |
| 790 | Evidences for age-related modulation of human hematopoietic progenitor cell proliferation. <b>2008</b> , 43, 1033-8  | 1   |
| 789 | ssDNA fragments induce cell senescence by telomere uncapping. <b>2008</b> , 43, 892-9  | 15  |
| 788 | Determining the influence of telomere dysfunction and DNA damage on stem and progenitor cell aging: what markers can we use?. <b>2008</b> , 43, 998-1004                     | 42  |
| 787 | Modulation of the DNA-damage response to HZE particles by shielding. <b>2008</b> , 7, 1717-30  | 26  |
| 786 | Cellular senescence, cardiovascular risk, and CKD: a review of established and hypothetical interconnections. <b>2008</b> , 51, 131-44                                       | 41  |

|     |   |    |
|-----|---|----|
| 785 | Oval cell proliferation in p16INK4a expressing mouse liver is triggered by chronic growth stimuli. <b>2008</b> , 12, 622-38   | 8  |
| 784 | Insights into post-translational processing of beta-galactosidase in an animal model resembling late infantile human G-gangliosidosis. <b>2008</b> , 12, 1661-71                        | 14 |
| 783 | Identification of p53-dependent genes potentially involved in UVB-mediated premature senescence of human skin fibroblasts using siRNA technology. <b>2008</b> , 129, 109-19             | 18 |
| 782 | Mutant alleles of HD improve the life span of p53(-/-) mice. <b>2008</b> , 129, 238-41  | 2  |
| 781 | Influence of the TP53 codon 72 polymorphism on the cellular responses to X-irradiation in fibroblasts from nonagenarians. <b>2008</b> , 129, 175-82                                     | 16 |
| 780 | Progressive apoptosis resistance prior to senescence and control by the anti-apoptotic protein BCL-xL. <b>2008</b> , 129, 207-14  | 40 |
| 779 | Chronic treatment with N-acetyl-cystein delays cellular senescence in endothelial cells isolated from a subgroup of atherosclerotic patients. <b>2008</b> , 129, 261-70                 | 53 |
| 778 | Transient metabolic improvement in obese mice treated with navitoclax or dasatinib/quercetin. <b>2020</b> , 12, 11337-11348   | 13 |
| 777 | Senescence-like phenotype in post-mitotic cells of mice entering middle age. <b>2020</b> , 12, 13979-13990  | 9  |
| 776 | D-galactose induces senescence of glioblastoma cells through YAP-CDK6 pathway. <b>2020</b> , 12, 18501-18521  | 8  |
| 775 | Developmentally-programmed cellular senescence is conserved and widespread in zebrafish. <b>2020</b> , 12, 17895-17901  | 4  |
| 774 | The activation of OR51E1 causes growth suppression of human prostate cancer cells. <b>2016</b> , 7, 48231-48249   | 37 |
| 773 | Heterotypic paracrine signaling drives fibroblast senescence and tumor progression of large cell carcinoma of the lung. <b>2016</b> , 7, 82324-82337                                    | 13 |
| 772 | Ligand activated progesterone receptor B drives autophagy-senescence transition through a Beclin-1/Bcl-2 dependent mechanism in human breast cancer cells. <b>2016</b> , 7, 57955-57969 | 16 |
| 771 | Sensitivity to PRIMA-1MET is associated with decreased MGMT in human glioblastoma cells and glioblastoma stem cells irrespective of p53 status. <b>2016</b> , 7, 60245-60269            | 21 |
| 770 | MicroRNA-34a regulates doxorubicin-induced cardiotoxicity in rat. <b>2016</b> , 7, 62312-62326  | 51 |
| 769 | NOX4 downregulation leads to senescence of human vascular smooth muscle cells. <b>2016</b> , 7, 66429-66443   | 30 |
| 768 | Detection of cellular senescence within human invasive breast carcinomas distinguishes different breast tumor subtypes. <b>2016</b> , 7, 74846-74859                                    | 13 |

|     |  |     |
|-----|--|-----|
| 767 | Establishment and application of a novel patient-derived KIAA1549:BRAF-driven pediatric pilocytic astrocytoma model for preclinical drug testing. <b>2017</b> , 8, 11460-11479   | 28  |
| 766 | Alleviation of senescence and epithelial-mesenchymal transition in aging kidney by short-term caloric restriction and caloric restriction mimetics via modulation of AMPK/mTOR signaling. <b>2017</b> , 8, 16109-16121 | 43  |
| 765 | Histamine therapeutic efficacy in metastatic melanoma: Role of histamine H4 receptor agonists and opportunity for combination with radiation. <b>2017</b> , 8, 26471-26491   | 14  |
| 764 | Level of FACT defines the transcriptional landscape and aggressive phenotype of breast cancer cells. <b>2017</b> , 8, 20525-20542  | 27  |
| 763 | Increased cFLIP expression in thymic epithelial tumors blocks autophagy via NF- $\kappa$ B signalling. <b>2017</b> , 8, 89580-89594  | 4   |
| 762 | Mcl-1 regulates reactive oxygen species via NOX4 during chemotherapy-induced senescence. <b>2017</b> , 8, 28154-28168  | 17  |
| 761 | The imidazoacridinone C-1311 induces p53-dependent senescence or p53-independent apoptosis and sensitizes cancer cells to radiation. <b>2017</b> , 8, 31187-31198  | 5   |
| 760 | Caloric restriction delays early phases of carcinogenesis via effects on the tissue microenvironment. <b>2017</b> , 8, 36020-36032   | 14  |
| 759 | miR-449a causes Rb-dependent cell cycle arrest and senescence in prostate cancer cells. <b>2010</b> , 1, 349-58  | 129 |
| 758 | MiR-34a modulates ionizing radiation-induced senescence in lung cancer cells. <b>2017</b> , 8, 69797-69807   | 36  |
| 757 | Inhibitors of telomerase and poly(ADP-ribose) polymerases synergize to limit the lifespan of pancreatic cancer cells. <b>2017</b> , 8, 83754-83767   | 9   |
| 756 | Age-related modulation of plasmatic beta-Galactosidase activity in healthy subjects and in patients affected by T2DM. <b>2017</b> , 8, 93338-93348   | 13  |
| 755 | Senescence and cell death in chronic liver injury: roles and mechanisms underlying hepatocarcinogenesis. <b>2018</b> , 9, 8772-8784  | 15  |
| 754 | Silencing erythropoietin receptor on glioma cells reinforces efficacy of temozolomide and X-rays through senescence and mitotic catastrophe. <b>2015</b> , 6, 2101-19  | 26  |
| 753 | Vasohibin-1 suppresses colon cancer. <b>2015</b> , 6, 7880-98  | 16  |
| 752 | The intrinsic stiffness of human trabecular meshwork cells increases with senescence. <b>2015</b> , 6, 15362-74  | 39  |
| 751 | Bradykinin inhibits oxidative stress-induced senescence of endothelial progenitor cells through the B2R/AKT/RB and B2R/EGFR/RB signal pathways. <b>2015</b> , 6, 24675-89  | 15  |
| 750 | c-Maf regulates pluripotency genes, proliferation/self-renewal, and lineage commitment in ROS-mediated senescence of human mesenchymal stem cells. <b>2015</b> , 6, 35404-18   | 23  |

|     |   |     |
|-----|---|-----|
| 749 | Carnitine palmitoyltransferase 1A functions to repress FoxO transcription factors to allow cell cycle progression in ovarian cancer. <b>2016</b> , 7, 3832-46   | 58  |
| 748 | Anti-TNF- $\alpha$ treatment modulates SASP and SASP-related microRNAs in endothelial cells and in circulating angiogenic cells. <b>2016</b> , 7, 11945-58  | 57  |
| 747 | Antitumor activity and inhibitory effects on cancer stem cell-like properties of Adeno-associated virus (AAV) -mediated Bmi-1 interference driven by Bmi-1 promoter for gastric cancer. <b>2016</b> , 7, 22733-45 | 10  |
| 746 | Progerin impairs chromosome maintenance by depleting CENP-F from metaphase kinetochores in Hutchinson-Gilford progeria fibroblasts. <b>2016</b> , 7, 24700-18   | 16  |
| 745 | A miR-200c/141-BMI1 autoregulatory loop regulates oncogenic activity of BMI1 in cancer cells. <b>2016</b> , 7, 36220-36234  | 29  |
| 744 | The signaling involved in autophagy machinery in keratinocytes and therapeutic approaches for skin diseases. <b>2016</b> , 7, 50682-50697   | 29  |
| 743 | Nuclear DNA methylation and chromatin condensation phenotypes are distinct between normally proliferating/aging, rapidly growing/immortal, and senescent cells. <b>2013</b> , 4, 474-93                           | 16  |
| 742 | Estrogen receptor alpha inhibits senescence-like phenotype and facilitates transformation induced by oncogenic ras in human mammary epithelial cells. <b>2016</b> , 7, 39097-39107                                | 14  |
| 741 | Antioxidant and Antiwrinkle Effects of Amentoflavone for Cosmetic Materials Development. <b>2016</b> , 14, 66-76  | 4   |
| 740 | The role of chondrocyte senescence in the pathogenesis of osteoarthritis and in limiting cartilage repair. <b>2003</b> , 85-A Suppl 2, 106-10   | 212 |
| 739 | Teraphtal (sodium salt of cobalt 4,5-carboxyphthalocyanine) Decreases Sensitivity of Tumor Cells to Anthracycline Antibiotics and Mitoxantrone in Vitro. <b>2018</b> , 11, 10-25                                  | 2   |
| 738 | The Role of Vascular Aging in Atherosclerotic Plaque Development and Vulnerability. <b>2019</b> , 25, 3098-3111   | 8   |
| 737 | Cellular Senescence and Anti-Cancer Therapy. <b>2019</b> , 20, 705-715  | 4   |
| 736 | The Potential Roles of Tendon Stem/Progenitor Cells in Tendon Aging. <b>2019</b> , 14, 34-42  | 12  |
| 735 | d-amino acid oxidase promotes cellular senescence via the production of reactive oxygen species. <b>2019</b> , 2,   | 10  |
| 734 | Cellular Senescence and Its Effects on Carcinogenesis. <b>2008</b> , 175-193  | 1   |
| 733 | Mitotic Catastrophe in Cancer Therapy. <b>2008</b> , 307-320  | 3   |
| 732 | Kidneys with bad ends. <b>2008</b> , 12, 11   | 1   |

|     |   |    |
|-----|---|----|
| 731 | Mitochondrial Protection Partly Mitigates Kidney Cellular Senescence in Swine Atherosclerotic Renal Artery Stenosis. <b>2019</b> , 52, 617-632  | 22 |
| 730 | [Caloric restriction suppresses endothelial cells senescence via down-regulation of NOX4 induced by HNF3 $\beta$ ] <b>2012</b> , 34, 573-83   | 2  |
| 729 | Transcriptional down regulation of hTERT and senescence induction in HepG2 cells by chelidonine. <b>2009</b> , 15, 3603-10  | 37 |
| 728 | Mitotic cell death in BEL-7402 cells induced by enediyne antibiotic lidamycin is associated with centrosome overduplication. <b>2004</b> , 10, 2632-6   | 8  |
| 727 | Down-regulation of FoxM1 inhibits viability and invasion of gallbladder carcinoma cells, partially dependent on inducement of cellular senescence. <b>2014</b> , 20, 9497-505                             | 8  |
| 726 | Hepatic senescence, the good and the bad. <b>2019</b> , 25, 5069-5081   | 28 |
| 725 | Establishment and characterization of a rat pancreatic stellate cell line by spontaneous immortalization. <b>2003</b> , 9, 2751-8   | 28 |
| 724 | Ginsenoside Rg1 protects against Sca-1 HSC/HPC cell aging by regulating the SIRT1-FOXO3 and SIRT3-SOD2 signaling pathways in a $\gamma$ irradiation-induced aging mice model. <b>2020</b> , 20, 1245-1252 | 5  |
| 723 | IGF-1 induces cellular senescence in rat articular chondrocytes via Akt pathway activation. <b>2020</b> , 20, 49  | 4  |
| 722 | Targeting senescent cells and tumor therapy (Review). <b>2020</b> , 46, 1603-1610   | 2  |
| 721 | Expression profile-driven discovery of AURKA as a treatment target for liposarcoma. <b>2019</b> , 55, 938-948   | 6  |
| 720 | Oxidative stress, cellular senescence and ageing. <b>2016</b> , 3, 300-324  | 46 |
| 719 | Tenovin-1 Induces Senescence and Decreases Wound-Healing Activity in Cultured Rat Primary Astrocytes. <b>2019</b> , 27, 283-289   | 7  |
| 718 | Etoposide Induces Mitochondrial Dysfunction and Cellular Senescence in Primary Cultured Rat Astrocytes. <b>2019</b> , 27, 530-539   | 10 |
| 717 | X-gal staining of canine skin tissues: A technique with multiple possible applications. <b>2014</b> , 5, 245-9  | 6  |
| 716 | Senescence and Cancer. <b>2018</b> , 4, 70-74   | 38 |
| 715 | Knockdown of human telomerase reverse transcriptase induces apoptosis in cervical cancer cell line. <b>2019</b> , 149, 345-353  | 3  |
| 714 | Chronic obstructive pulmonary disease and the hallmarks of aging. <b>2018</b> , 35, 321-327   | 11 |



|     |  |    |
|-----|--|----|
| 713 | Aging and the Immune System: the Impact of Immunosenescence on Viral Infection, Immunity and Vaccine Immunogenicity. <b>2019</b> , 19, e37                           | 86 |
| 712 | Pathways of oncogene-induced senescence in human melanocytic cells. <b>2010</b> , 9, 2782-8  | 24 |
| 711 | Effect of high glucose on stress-induced senescence of nucleus pulposus cells of adult rats. <b>2015</b> , 9, 155-61   | 38 |
| 710 | Rat Notochordal Cells Undergo Premature Stress-Induced Senescence by High Glucose. <b>2015</b> , 9, 495-502  | 12 |
| 709 | The effects of <i>Astragalus</i> polysaccharide on zebrafish cell apoptosis and senescence. <b>2012</b> , 02, 103-109  | 8  |
| 708 | The Effects of Anti-Vascular Endothelial Growth Factor Drugs on Retinal Pigment Epithelial Cell Culture. <b>2018</b> , 48, 190-195                                   | 2  |
| 707 | Epigenetic alteration to activate Bmp2-Smad signaling in Raf-induced senescence. <b>2016</b> , 7, 188-205  | 5  |
| 706 | Sun ginseng protects endothelial progenitor cells from senescence associated apoptosis. <b>2012</b> , 36, 78-85  | 18 |
| 705 | Role of senescence induction in cancer treatment. <b>2018</b> , 9, 180-187   | 24 |
| 704 | BMI-1026 treatment can induce SAHF formation by activation of Erk1/2. <b>2008</b> , 41, 523-8  | 4  |
| 703 | Role of telomere length in subtelomeric gene expression and its possible relation to cellular senescence. <b>2009</b> , 42, 747-51                                   | 7  |
| 702 | Exploiting tumor cell senescence in anticancer therapy. <b>2014</b> , 47, 51-9   | 49 |
| 701 | Erratum to: From cell senescence to age-related diseases: differential mechanisms of action of senescence-associated secretory phenotypes. <b>2016</b> , 49, 641-650 | 2  |
| 700 | Cellular senescence in cancer. <b>2019</b> , 52, 42-46   | 13 |
| 699 | Protein kinase CK2 activates Nrf2 via autophagic degradation of Keap1 and activation of AMPK in human cancer cells. <b>2020</b> , 53, 272-277                        | 5  |
| 698 | Aging and uremia: Is there cellular and molecular crossover?. <b>2015</b> , 4, 19-30   | 26 |
| 697 | Nampt is involved in DNA double-strand break repair. <b>2012</b> , 31, 392-8   | 8  |
| 696 | Senescence as a consequence of ginsenoside rg1 response on k562 human leukemia cell line. <b>2012</b> , 13, 6191-6   | 13 |

|     |  |     |
|-----|--|-----|
| 695 | Senescence effects of Angelica sinensis polysaccharides on human acute myelogenous leukemia stem and progenitor cells. <b>2014</b> , 14, 6549-56                                       | 17  |
| 694 | Effects of 5-Aza-2'-Deoxycytidine, Bromodeoxyuridine, Interferons and Hydrogen Peroxide on Cellular Senescence in Cholangiocarcinoma Cells. <b>2016</b> , 17, 957-63                   | 4   |
| 693 | Recurrent turnover of senescent cells during regeneration of a complex structure. <b>2015</b> , 4,   | 220 |
| 692 | TCF7L1 promotes skin tumorigenesis independently of E-catenin through induction of LCN2. <b>2017</b> , 6,  | 12  |
| 691 | Clearance of senescent decidual cells by uterine natural killer cells in cycling human endometrium. <b>2017</b> , 6,   | 112 |
| 690 | The role of Pitx2 and Pitx3 in muscle stem cells gives new insights into P38MAP kinase and redox regulation of muscle regeneration. <b>2018</b> , 7,                                   | 29  |
| 689 | Thyroid hormone regulates distinct paths to maturation in pigment cell lineages. <b>2019</b> , 8,  | 54  |
| 688 | Persistent epigenetic memory impedes rescue of the telomeric phenotype in human ICF iPSCs following DNMT3B correction. <b>2019</b> , 8,  | 9   |
| 687 | celsr1a is essential for tissue homeostasis and onset of aging phenotypes in the zebrafish. <b>2020</b> , 9,   | 3   |
| 686 | Elementary Laboratory Assays as Biomarkers of Ageing: Support for Treatment of COVID-19?. <b>2021</b> , 67, 503-516  |     |
| 685 | Homologous recombination-mediated irreversible genome damage underlies telomere-induced senescence. <b>2021</b> , 49, 11690-11707  | 1   |
| 684 | IER2-induced senescence drives melanoma invasion through osteopontin. <b>2021</b> , 40, 6494-6512  | 3   |
| 683 | Targeted clearance of senescent cells using an antibody-drug conjugate against a specific membrane marker. <b>2021</b> , 11, 20358   | 8   |
| 682 | Targeted Therapeutics Delivery by Exploiting Biophysical Properties of Senescent Cells. 2107990  | 0   |
| 681 | Prolonged disturbance of proteostasis induces cellular senescence via temporal mitochondrial dysfunction and subsequent mitochondrial accumulation in human fibroblasts. <b>2021</b> , | 3   |
| 680 | Senescence and Immunoregulation in the Tumor Microenvironment. <b>2021</b> , 9, 754069   | 4   |
| 679 | Delineating the Switch between Senescence and Apoptosis in Cervical Cancer Cells under Ciclopirox Treatment. <b>2021</b> , 13,   | 0   |
| 678 | Primary high-grade serous ovarian cancer cells are sensitive to senescence induced by carboplatin and paclitaxel in vitro. <b>2021</b> , 26, 44  | 2   |

|     |   |    |
|-----|---|----|
| 677 | The androgen receptor-lncRNASAT1-AKT-p15 axis mediates androgen-induced cellular senescence in prostate cancer cells. <b>2021</b> ,   | 2  |
| 676 | Mechanisms of Hydroxyurea-Induced Cellular Senescence: An Oxidative Stress Connection?. <b>2021</b> , 2021, 7753857   | 2  |
| 675 | c-Myc-activated USP2-AS1 suppresses senescence and promotes tumor progression via stabilization of E2F1 mRNA. <b>2021</b> , 12, 1006  | 5  |
| 674 | Local Delivery of Senolytic Drug Inhibits Intervertebral Disc Degeneration and Restores Intervertebral Disc Structure. <b>2021</b> , e2101483                                       | 6  |
| 673 | Lung cancer cells expressing a shortened CDK16 3'UTR escape senescence through impaired miR-485-5p targeting. <b>2021</b> ,   | 1  |
| 672 | The role of cellular senescence in cardiac disease: basic biology and clinical relevance. <b>2021</b> ,   | 9  |
| 671 | RASSF1A-Mediated Suppression of Estrogen Receptor Alpha (ER) $\alpha$ -Driven Breast Cancer Cell Growth Depends on the Hippo-Kinases LATS1 and 2. <b>2021</b> , 10,                 |    |
| 670 | The metabolic roots of senescence: mechanisms and opportunities for intervention. <b>2021</b> , 3, 1290-1301  | 20 |
| 669 | Advanced Maternal Age-associated SIRT1 Deficiency Compromises Trophoblast Epithelial-Mesenchymal Transition through an Increase in Vimentin Acetylation. <b>2021</b> , 20, e13491   | 4  |
| 668 | Promises and challenges of senolytics in skin regeneration, pathology and ageing. <b>2021</b> , 200, 111588   | 1  |
| 667 | Targeting microRNA for improved skin health. <b>2021</b> , 4, e374  | 0  |
| 666 | Aging Diagnostic Probe for Research on Aging and Evaluation of Anti-aging Drug Efficacy. <b>2021</b> , 93, 13800-13806  |    |
| 665 | Fisetin-induced PTEN expression reverses cellular senescence by inhibiting the mTORC2-Akt Ser473 phosphorylation pathway in vascular smooth muscle cells. <b>2021</b> , 156, 111598 | 0  |
| 664 | A guide to senolytic intervention in neurodegenerative disease. <b>2021</b> , 200, 111585   | 2  |
| 663 | Aging: Genes and Molecular Mechanisms. <b>2000</b> , 3-18   |    |
| 662 | More than a sum of our cells. <b>2001</b> , 2001, oa4   | 1  |
| 661 | Senescence, Cellular. <b>2002</b> , 205-211   | 2  |
| 660 | The Relationship Between Cell Turnover and Tissue Aging. <b>2003</b> , 1-28   |    |

- 659 Biological Clocks in the Aging Cell. **2003**, 107-119
- 658 Cellular Senescence. **2003**,
- 657 In Vitro Senescence of Human Osteoblasts. **2003**, 67-84
- 656 Telomeric Damage in Aging. **2003**, 121-129
- 655 Regulation of Cellular Senescence by the Retinoblastoma Pathway. **2003**, 151-169
- 654 Telomeres and Cellular Aging. **2003**, 171-205
- 653 In Vitro Testing of Tissue Engineering Materials. **2004**, 187-200
- 652 Cadmium-induced nephropathy in rats is mediated by expression of senescence-associated beta-galactosidase and accumulation of mitochondrial DNA deletion. **2004**, 1011, 332-8 6
- 651 Replicative Senescence, Telomeres and Werner's Syndrome. **2004**, 133-151
- 650 Mitochondrial dysfunction via disruption of complex II activity during iron chelation-induced senescence-like growth arrest of Chang cells. **2004**, 1011, 123-32 10
- 649 Angiotensin as a Cytokine Implicated in Accelerated Cellular Turnover. **2004**, 71-98
- 648 Morphological Changes in the Skin of Hairless Mouse Fed Various Kimchi Diet. **2004**, 33, 1469-1475 3
- 647 Efficient Inhibition of Human Telomerase Reverse Transcriptase Expression by RNA Interference Sensitizes Cancer Cells to Ionizing Radiation and Chemotherapy. **2005**, 050701034702009
- 646 Asymmetric distribution of DNA between daughter cells with final symmetry breaking during aging of human fibroblasts. **2007**, 45, 227-42 1
- 645 Human ageing and telomeres. **1997**, 211, 129-39; discussion 139-44 24
- 644 Initiation of Genomic Instability, Cellular Senescence, and Organismal Aging by Dysfunctional Telomeres. **2008**, 57-75
- 643 p16INK4a and Stem Cell Ageing: A Telomere-Independent Process?. **2008**, 181-202
- 642 Cancer and Senescence. **2008**, 391-395

- 641 Comparison of Cellular Senescence Phenotype in Human Fibroblasts from New-born and Aged Donors.. **2008**, 18, 344-349
- 640 Senescence Induced by Repression of Human Papillomavirus Oncogenes in Cervical Cancer Cells. **2008**, 209-222
- 639 Treatment-Induced Tumor Cell Senescence and Its Consequences. **2008**, 223-249 1
- 638 Tumor Suppressing Activities of Senescent Keratinocytes. **2008**, 195-207
- 637 The Role of Sumoylation in Senescence. **2009**, 201-216
- 636 Die Geschichte der Zellkultur. **2009**, 1-7
- 635 [The study on inhabiting endothelial cell aging by targeted silencing of p22phox]. **2008**, 30, 1175-81
- 634 Aging and Cancer: Caretakers and Gatekeepers. **2010**, 397-416
- 633 Oncogene-Induced Senescence (OIS) as a Cellular Response to Oncogenic Stresses. **2010**, 63-83
- 632 Telomere Dysfunction and Senescence in Stem Cell and Tissues Aging. **2010**, 219-233
- 631 A Comparison of Senescence in Mouse and Human Cells. **2010**, 175-197
- 630 The Senescence Secretome and Its Impact on Tumor Suppression and Cancer. **2010**, 139-154
- 629 Chromatin in Senescent Cells: A Conduit for the Anti-Aging Effects of Wnt Signaling?. **2010**, 77-105
- 628 Expression Analysis of Senescence-Associated Genes: Their Possible Involvement in Diabetes. **2010**, 243-246
- 627 Cell Cycle Control and Replication in Corneal Endothelium. **2010**, 69-86 0
- 626 Overview of Stem and Artificial Cells. 1
- 625 Senescence. **2011**, 235-254
- 624 Biology of Aging. **2011**, 197-206

623 Cell and Molecular Aging. **2011**, 5-37

622 Epigenetic Control in Cellular Senescence. 25-44

621 Nevus Senescence: An Update. **2012**, 117-126

620 GAPDH expression as a measurement of transfection efficiency for p<sup>16</sup>INK4a</sup> gene silencing (siRNA) in senescent human diploid fibroblasts. **2012**, 02, 390-397 1

619 Modulation of bacterial pathogenesis by oppressive aging factors: insights into host-pneumococcal interaction strategies. **2012**, 2012, 267101 1

618 1 0 7. **2012**, 119-119

617 Chemotherapy of Malignant Pleural Mesothelioma Induces Both Senescence and Apoptosis. **2013**, 261-268

616 Stem Cells and Aging. **2013**, 363-373

615 p21 Mediates Senescence by a Mechanism Involving Accumulation of Reactive Oxygen Species. **2013**, 153-167

614 Biological Aspects of Aging and Cancer. 13-33

613 Cellular Senescence Limits the Extent of Fibrosis Following Liver Damage. **2013**, 291-301

612 Chemotherapy- and Radiation-Induced Accelerated Senescence: Implications for Treatment Response, Tumor Progression and Cancer Survivorship. **2013**, 237-248

611 CARF Regulates Cellular Senescence and Apoptosis through p53-Dependent and -Independent Pathways. **2013**, 137-157

610 Anti-oxidant and Anti-aging Activities of Sericinjam Gland Hydrolysate Extract in Human Dermal Fibroblasts. **2013**, 39, 9-17



609 Upregulation of Alpha-2-Macroglobulin in Replicative Senescence. **2014**, 71-80

608 Induction of Cellular Senescence: Role of Mitogen-Activated Protein Kinase-Interacting Kinase 1. **2014**, 111-119

607 Loss of Cdh1 Triggers Premature Senescence in Part via Activation of Both the RB/E2F1 and the CLASPIN/CHK1/P53 Tumor Suppressor Pathways. **2014**, 207-217

606 Induction of P21-Dependent Senescence: Role of NAE Inhibitor MLN4924. **2014**, 27-32

- 605 Induction of Cancer Cell Senescence: Role of Caffeic Acid 3,4-Dihydroxy-Phenethyl Ester. **2014**, 41-48 0
- 604 Oxidative Stress and Complications of the Diabetic Foot. **2014**, 107-126
- 603 Cancer and the Ageing Process. 1
- 602 Cell Senescence and Aging. **1998**, 121-129
- 601 Telomeres and Replicative Senescence. **1998**, 417-435
- 600 Use of the Fibroblast Model. **1998**, 77-114
- 599 Cellular Models of Human Aging. **1999**, 59-73 2
- 598 Screening of Plants with Inhibitory Activity on Cellular Senescence. **2014**, 27, 601-609 1
- 597 Aging Skin as a Diagnostic Tool for Internal Diseases: A Chance for Dermatology. **2015**, 1-17
- 596 Aging-Associated Nonmelanoma Skin Cancer: A Role for the Dermis. **2015**, 1-19
- 595 Aging and Senescence of Skin Cells in Culture. **2015**, 1-8
- 594 Aging of Mammalian Intestinal Stem Cells. **2015**, 175-194
- 593 In vitro Expansion of Umbilical Cord Blood Derived Mesenchymal Stem Cells (UCB-MSCs) Under Hypoxic Conditions. **2015**, 21, 40-49 2
- 592 Stress factor &ndash; dependent differences in molecular mechanisms of premature cell senescence. **2015**, 31, 323-337 1
- 591 The Effect of Micro-Pulsatile Electrical and Ultrasound Stimulation on Cellular Biosynthetic Activities Such as Cellular Proliferation, Endogenous Nitrogen Oxide and Collagen Synthesis. **2016**, 06, 41-47
- 590 The Way Forward: Translation. **2016**, 593-622
- 589 Biomarkers of Replicative Senescence Revisited. **2016**, 203-239
- 588 3. Effect of diet-induced maternal obesity on fetal skeletal development. **2016**, 67-80

- 587 Target Proteins Involved in Aging Mechanism as an Aging Molecular Marker. **2016**, 26, 983-989
- 586 Aging Skin as a Diagnostic Tool for Internal Diseases: A Chance for Dermatology. **2017**, 869-885
- 585 Aging and Senescence of Skin Cells in Culture. **2017**, 1239-1246
- 584 Innate Immunosenescence and Its Impact on Health in Old Age. **2017**, 1-20
- 583 Pharmaceutical efficacy of human epiphyseal chondrocytes with differential replication numbers for cellular therapy products. 1
- 582 Reversibility of chemotherapy-induced senescence is independent of autophagy and a potential model for tumor dormancy and cancer recurrence.
- 581 Cellular Senescence and Biliary Disorders. **2017**, 39-54
- 580 Senescence. **2017**, 289-310
- 579 High Dose of FGF-2 Induced Growth Retardation via ERK1/2 De-phosphorylation in Bone Marrow-derived Mesenchymal Stem Cells. **2017**, 23, 49-56
- 578 In Cellular Senescence, the Third Circle of the Cell Life's Network, p53 Acts Vital Role. 1-10
- 577 Aging and Cancer Biology. **2018**, 1-19 1
- 576 Cellular Senescence and Tumor Promotion. **2018**, 1-15
- 575 Immunosenescence and Cutaneous Malignancies. **2018**, 185-202 1
- 574   mTOR  **2018**, 712-724
- 573 SILAC Analysis Reveals a Role for the Senescence-Associated Secretory Phenotype in Hemostasis.
- 572 The Sturgeon Ovarian Liquid and the Perch Roe Extract are Able to Enhance the Recovery of the Fibroblasts after their Stress-induced Premature Senescence. **2018**, 1, e00011
- 571 Telomeres and Telomerase in Ageing and Cancer. 1-10
- 570 Molecular basis of mitotic decline during human aging.



- 569 A Patient-Derived Cellular Model for Huntington's Disease Reveals Phenotypes at Clinically Relevant CAG Lengths. 1
- 568 Antioxidant and Anti-aging Effects of Extracts from Leaves of the *Quercus aliena* Blume on Human Dermal Fibroblast. **2018**, 33, 140-145
- 567 Both Granulocytic and Non-Granulocytic Blood Cells Are Affected in Patients with Severe Congenital Neutropenia and Their Non-Neutropenic Family Members: An Evaluation of Morphology, Function, and Cell Death. **2018**, 35, 229-259 1
- 566 Length-independent telomere damage drives cardiomyocyte senescence. 1
- 565 Suppression of p16 induces mTORC1-mediated nucleotide metabolic reprogramming. 0
- 564 DOSE-RATE AS A CRITICAL ASPECT OF CELLULAR RESPONSE TO GAMMA-RADIATION. **2018**, 87, 119-125
- 563 Impact of temperature and photoperiod on survival and biomarkers of senescence in common woodlouse. 0
- 562 Inhibition of the 60S ribosome biogenesis GTPase LSG1 causes endoplasmic reticular disruption and cellular senescence.
- 561 Targeting IDH1 as a pro-senescent therapy in high-grade serous ovarian cancer. 0
- 560 Chronic non-healing wounds in geriatrics. **2018**, 64, 1098-1104 1
- 559 Aging and Malignant Hemopathies: A Complex Multistep Process. **2019**, 2267-2279
- 558 T Cell Senescence and Tumor Immunotherapy. **2019**, 2091-2114
- 557 Aging of the Skin. **2019**,
- 556 Aging and Cardiovascular Diseases: The Role of Cellular Senescence. **2019**, 207-233 0
- 555 Encyclopedia of Gerontology and Population Aging. **2019**, 1-15
- 554 Senescence-Associated Beta-Galactosidase Marker of Cellular Senescence. **2019**,
- 553 Stochastic Nature of Cellular Aging: The Role of Telomeres. **2019**,
- 552 The crustacean *Armadillidium vulgare* (Latreille, 1804) (Isopoda: Oniscoidea), a new promising model for the study of cellular senescence.

- 551 The p38MAPK-MK2-HSP27 Pathway Regulates the mRNA Stability of the Senescence-Associated Secretory Phenotype.
- 550 Microenvironment-contextual cell signaling is attenuated with age.
- 549 Teraphtal decreased the sensitivity tumor cells to doxorubicine in vitro but does not affect its antitumor effect in vivo .. **2019**, 18, 51-59
- 548 Dynamic changes in RNA-chromatin interactome promote endothelial dysfunction. 0
- 547 Celsr1a is essential for tissue homeostasis and onset of aging phenotypes in the zebrafish.
- 546 A Multidimensional Systems Biology Analysis of Cellular Senescence in Ageing and Disease. 3
- 545 Aging-associated changes in transcriptional elongation influence metazoan longevity. 1
- 544 Biological insights from self-perceived facial aging data of the UKBB participants.
- 543 EHPV 8E6 Dysregulates the Hippo Signaling Pathway and Induces Aneuploidy.
- 542 Differential detachment of intact and viable cells of different sizes using laser-induced microbubbles. **2019**, 10, 4919-4930
- 541 Ablation of Arf-expressing cells ameliorates cigarette smoke-induced lung dysfunction in mice.
- 540 PDGFRA Defines the Mesenchymal Stem Cell Kaposi Sarcoma Progenitors by Enabling KSHV Oncogenesis in an Angiogenic Environment. 1
- 539 The Role of Chronic Kidney Disease in Ectopic Calcification. **2020**, 137-166
- 538 Evaluation of Bone Marrow-derived Stem Cells and Adipose-derived Stem Cells Co-cultured on Human Nucleus Pulposus Cells: A Pilot Study. **2020**, 16, 138-146
- 537 ATM Inhibition Synergizes with Fenofibrate in High Grade Serous Ovarian Cancer Cells.
- 536 High-throughput and label-free isolation of senescent murine mesenchymal stem cells. **2020**, 14, 034106 4
- 535 Xela DS2 and Xela VS2: two novel skin epithelial-like cell lines from adult African clawed frog (*Xenopus laevis*) and their response to an extracellular viral dsRNA analogue.
- 534 The Pivotal Role of Senescence in Cell Death and Aging: Where Do We Stand?. **2020**, 6, 91-101

|     |  |   |
|-----|--|---|
| 533 | Dopaminergic Modulation of Working Memory and Cognitive Flexibility in a Zebrafish Model of Aging-Related Cognitive Decline.   |   |
| 532 | Granulocyte colony-stimulating factor acts on lymphoid-biased, short-term hematopoietic stem cells. <b>2021</b> , 106, 1516-1518                                     |   |
| 531 | Cellular Senescence in Pterygium. <b>2020</b> , 61, 861-867  |   |
| 530 | ATF3 drives senescence by reconstructing accessible chromatin profiles.  | 0 |
| 529 | Ultraviolet B-induced Senescence Model Using Corneal Fibroblasts and the Anti-aging Effect of Angiogenin. <b>2020</b> , 61, 1015-1022                                |   |
| 528 | Development of the DNA-based biosensors for high performance in detection of molecular biomarkers: More rapid, sensitive, and universal. <b>2022</b> , 197, 113739   | 8 |
| 527 | The role of local retinoids in eliminating signs of skin aging. <b>2021</b> , 97, 60-70  | 0 |
| 526 | The CP110-CEP97-CEP290 module orchestrates a centriolar satellite dependent response to proteotoxic stress.  | 0 |
| 525 | Sestrin2 Attenuates Cellular Senescence by Inhibiting NADPH Oxidase 4 Expression. <b>2020</b> , 24, 297-304  | 4 |
| 524 | Pearl Chapter: Basis of Photoaging and the Use of Chemical Peelings. <b>2020</b> , 15-25   |   |
| 523 | Senolytics Target Senescent Cells and Improve Aging and Age-Related Diseases. <b>2020</b> , 63-84  |   |
| 522 | Hematopoietic Stem Cell Aging and Malignant Hemopathies. <b>2020</b> , 169-181   |   |
| 521 | Senolysis and Senostasis Through the Plasma Membrane. <b>2020</b> , 131-143  | 1 |
| 520 | Prolonged disturbance of proteostasis induces cellular senescence via temporal mitochondrial dysfunction and enhanced mitochondrial biogenesis in human fibroblasts. |   |
| 519 | Novel Probes and Carriers to Target Senescent Cells. <b>2020</b> , 163-180   | 0 |
| 518 | Senescent stromal cells promote cancer resistance through SIRT1 loss-potentiated overproduction of small extracellular vesicles.                                     | 1 |
| 517 | AIegen for cancer discrimination. <b>2021</b> , 146, 100649  | 3 |
| 516 | Hyaluronan: A key player or just a bystander in skin photoaging?. <b>2021</b> ,  | 1 |

|     |   |     |
|-----|---|-----|
| 515 | Cardiomyocytes Cellular Phenotypes After Myocardial Infarction. <b>2021</b> , 8, 750510   | 3   |
| 514 | Bioprinting Scaffolds for Vascular Tissues and Tissue Vascularization. <b>2021</b> , 8,   | 1   |
| 513 | Senolytic Therapy for Cerebral Ischemia-Reperfusion Injury. <b>2021</b> , 22,   | 4   |
| 512 | Senolytics: A Novel Strategy for Neuroprotection in ALS?. <b>2021</b> , 22,   | 2   |
| 511 | TGF- $\beta$ Reversibly Induces Cell Senescence in Adenocarcinoma Cell Line. <b>1999</b> , 217-221  |     |
| 510 | TGF- $\beta$ Induced Cellular Senescence in Cancer Cells is Reversible and Operates Via Two Separate and Independent Pathways. <b>2002</b> , 331-335  |     |
| 509 | TGF- $\beta$ Induces Premature and Replicative Senescence in Cancer Cells. <b>1999</b> , 147-149  |     |
| 508 | Can Manipulation of Apoptotic Cell Death Benefit Tissue Scarring?. <b>2005</b> , 160-177  |     |
| 507 | Contributions of Apoptosis and Senescence to Cytotoxicity Produced by Microtubule-Stabilizing Agents. <b>2007</b> , 465-476   |     |
| 506 | Evaluating the Importance of Apoptosis and Other Determinants of Cell Death and Survival. <b>2007</b> , 55-72   |     |
| 505 | Strain difference in transgene-induced tumorigenesis and suppressive effect of ionizing radiation. <b>2021</b> , 62, 12-24  |     |
| 504 | Single-PanIN-seq Unveils that ARID1A Deficiency Promotes Pancreatic Tumorigenesis by Attenuating KRAS Induced Senescence.   |     |
| 503 | Senotherapeutic peptide reduces skin biological age and improves skin health markers.   | 0   |
| 502 | Key Molecular Mechanisms of Aging, Biomarkers, and Potential Interventions. <b>2020</b> , 54, 777-811   | 5   |
| 501 | Dependence of the Viability of Ras-Expressing Cells on Damage to Mitochondria Caused by Antitumor Agents. <b>2020</b> , 14, 437-447   |     |
| 500 | Mineral Deficiencies a Root Cause for Reduced Longevity in Mammals.   |     |
| 499 | PML is induced by oncogenic ras and promotes premature senescence. <b>2000</b> , 14, 2015-27  | 358 |
| 498 | Cloning of human Ca <sup>2+</sup> homeostasis endoplasmic reticulum protein (CHERP): regulated expression of antisense cDNA depletes CHERP, inhibits intracellular Ca <sup>2+</sup> mobilization and decreases cell proliferation. <b>2000</b> , 348 Pt 1, 189-99 | 9   |

|     |   |    |
|-----|---|----|
| 497 | Histone deacetylase inhibitors blocked activation and caused senescence of corneal stromal cells. <b>2008</b> , 14, 2556-65   | 27 |
| 496 | SU5416 induces premature senescence in endothelial progenitor cells from patients with age-related macular degeneration. <b>2011</b> , 17, 85-98  | 8  |
| 495 | Induction of cell senescence by targeting to Cullin-RING Ligases (CRLs) for effective cancer therapy. <b>2012</b> , 3, 273-81   | 7  |
| 494 | Id4 promotes senescence and sensitivity to doxorubicin-induced apoptosis in DU145 prostate cancer cells. <b>2013</b> , 33, 4271-8   | 18 |
| 493 | Initiation of premature senescence by Bcl-2 in hypoxic condition. <b>2014</b> , 7, 2446-53  | 8  |
| 492 | Impact of oestrogen deficiency and aging on tendon: concise review. <b>2014</b> , 4, 324-8  | 18 |
| 491 | Increased expression of oncogene-induced senescence markers during cervical squamous cell cancer development. <b>2014</b> , 7, 8911-6   | 5  |
| 490 | Guiqi polysaccharide protects the normal human fetal lung fibroblast WI-38 cells from H <sub>2</sub> O <sub>2</sub> -induced premature senescence. <b>2015</b> , 8, 4398-407                                  | 6  |
| 489 | The characteristics of astrocyte on A $\beta$ clearance altered in Alzheimer's disease were reversed by anti-inflammatory agent (+)-2-(1-hydroxyl-4-oxocyclohexyl) ethyl caffeine. <b>2016</b> , 8, 4082-4094 | 13 |
| 488 | GSK3 $\beta$ activity is essential for senescence-associated heterochromatin foci (SAHF) formation induced by HMGA2 in WI38 cells. <b>2017</b> , 9, 167-174   | 6  |
| 487 | Age-associated alteration in Th17 cell response is related to endothelial cell senescence and atherosclerotic cerebral infarction. <b>2017</b> , 9, 5160-5168   | 6  |
| 486 | "Social Life" of Senescent Cells: What Is SASP and Why Study It?. <b>2018</b> , 10, 4-14  | 34 |
| 485 | Depletion of gamma-glutamylcyclotransferase in cancer cells induces autophagy followed by cellular senescence. <b>2018</b> , 8, 650-661   | 4  |
| 484 | Preventive effects of crocin on neuronal damages induced by D-galactose through AGEs and oxidative stress in human neuroblastoma cells (SH-SY5Y). <b>2018</b> , 21, 18-25                                     | 5  |
| 483 | [The mechanism of bone marrow-derived mesenchymal stem cells excessive senescence in severe aplastic anemia mouse model]. <b>2017</b> , 38, 325-329   | 0  |
| 482 | Induction of cellular senescence in fibroblasts through $\alpha$ -integrin activation by tenascin-C-derived peptide and its protumor effect. <b>2021</b> , 11, 4364-4379                                      | 1  |
| 481 | Kidney diseases. <b>2022</b> , 205-225  |    |
| 480 | Cell senescence is a cause of frailty. <b>2022</b> , 383-422  |    |

|     |  |   |
|-----|--|---|
| 479 | Premalignant lesions and cellular senescence. <b>2022</b> , 29-60  |   |
| 478 | Cellular senescence during aging and chronic liver diseases. <b>2022</b> , 155-178   |   |
| 477 | Cellular senescence. <b>2022</b> , 3-26  |   |
| 476 | The cyclin-like protein SPY1 overrides reprogramming induced senescence through EZH2 mediated H3K27me3. <b>2021</b> , 39, 1688-1700                            | 2 |
| 475 | Linking In Vitro Models of Endothelial Dysfunction with Cell Senescence.. <b>2021</b> , 11,  | 0 |
| 474 | HO-1 in Bone Biology: Potential Therapeutic Strategies for Osteoporosis.. <b>2021</b> , 9, 791585  | 4 |
| 473 | Skin Aging, Cellular Senescence and Natural Polyphenols. <b>2021</b> , 22,   | 9 |
| 472 | The right time for senescence. <b>2021</b> , 10,   | 6 |
| 471 | Angptl2 is a Marker of Cellular Senescence: The Physiological and Pathophysiological Impact of Angptl2-Related Senescence. <b>2021</b> , 22,                   | 1 |
| 470 | Senescent Cells in Cancer: Wanted or Unwanted Citizens.. <b>2021</b> , 10,   | 1 |
| 469 | Pyridazinone Derivatives Limit Osteosarcoma-Cells Growth In Vitro and In Vivo. <b>2021</b> , 13,   |   |
| 468 | Fluorescence-based detection of ferrous iron in senescent cells. <b>2021</b> ,   | 1 |
| 467 | Cellular Senescence: Mechanisms and Therapeutic Potential.. <b>2021</b> , 9,   | 1 |
| 466 | Exposure to 10 Hz Pulsed Magnetic Fields Do Not Induce Cellular Senescence in Human Fetal Lung Fibroblasts. <b>2021</b> , 9, 761069                            | 1 |
| 465 | Oridonin Dose-Dependently Modulates the Cell Senescence and Apoptosis of Gastric Cancer Cells. <b>2021</b> , 2021, 5023536                                     | 0 |
| 464 | Metoprolol Protects Against Arginine Vasopressin-Induced Cellular Senescence in H9C2 Cardiomyocytes by Regulating the Sirt1/p53/p21 Axis. <b>2021</b> , 22, 99 | 0 |
| 463 | Role of Senescence and Aging in SARS-CoV-2 Infection and COVID-19 Disease.. <b>2021</b> , 10,  | 4 |
| 462 | Immunesenescence and Compromised Removal of Senescent Cells: Implications for Health in Old Age. <b>2022</b> , 23-52   |   |

461 Genomic hallmarks of cellular dormancy in cancer and therapeutic implications.

460 Aristolochic Acid Induces Renal Fibrosis and Senescence in Mice. **2021**, 22,

0

459 Noninvasive NIR Imaging of Senescence Labeling. **2021**,

3

458 NGAL as a Potential Target in Tumor Microenvironment. **2021**, 22,

1

457 The JAK/STAT signaling pathway: from bench to clinic. **2021**, 6, 402

47

456 A single dose of Ultraviolet-A induces proteome remodeling and senescence in primary human keratinocytes. **2021**, 11, 23355

0

455 The impact of fine particulate matter (PM) on various beneficial functions of human endometrial stem cells through its key regulator SERPINB2. **2021**,

0

454 Adipose Tissue Inflammation is Not Related to Adipose Insulin Resistance in Humans. **2021**,

3

453 Senescence in Primary Rat Astrocytes Induces Loss of the Mitochondrial Membrane Potential and Alters Mitochondrial Dynamics in Cortical Neurons.. **2021**, 13, 766306

1

452 Long-term cardiovascular complications following sepsis: is senescence the missing link?. **2021**, 11, 166

1

451 The remarkable effect of menstrual blood stem cells seeded on bilayer scaffold composed of amniotic membrane and silk fibroin aiming to promote wound healing in diabetic mice. **2021**, 102, 108404

1

450 Preventive effects of crocin on neuronal damages induced by D-galactose through AGEs and oxidative stress in human neuroblastoma cells (SH-SY5Y). **2018**, 21, 18-25

13

449 Encyclopedia of Gerontology and Population Aging. **2021**, 849-864

448 Glycosylation and Aging. **2021**, 1325, 341-373

1

447 A general strategy to the intracellular sensing of glycosidases using AIE-based glycoclusters.. **2021**, 13, 247-256

1

446 Activatable senoprobes and senolytics: Novel strategies to detect and target senescent cells.. **2022**, 202, 111618

2

445 Aging associated altered response to intracellular bacterial infections and its implication on the host.

444 Skin Mirrors Brain: A Chance for Alzheimer's Disease Research.. **2021**, 1339, 371-380

1

|     |   |   |
|-----|---|---|
| 443 | Obesity, Senescence, and Senolytics. <b>2021</b> , 1  | 1 |
| 442 | WNT/beta-catenin signalling interrupts a senescence-induction cascade in human mesenchymal stem cells that restricts their expansion.. <b>2022</b> , 79, 82 | 1 |
| 441 | Cellular Senescence in Cardiovascular Diseases: A Systematic Review.. <b>2022</b> , 13, 103-128   | 3 |
| 440 | Endogenous pH 6.0 $\beta$ -Galactosidase Activity Is Linked to Neuronal Differentiation in the Olfactory Epithelium.. <b>2022</b> , 11,                     | 0 |
| 439 | Targeting regulation of ATP synthase 5 alpha/beta dimerization alleviates senescence.. <b>2022</b> , 14,  | 0 |
| 438 | A subset of gut leukocytes have telomerase-dependent hyper-long telomeres and require telomerase for function in zebrafish.                                 | 0 |
| 437 | ATM modulates subventricular zone neural stem cell maintenance and senescence through Notch signaling pathway.. <b>2022</b> , 58, 102618                    | 0 |
| 436 | Genomic instability caused by Arp2/3 complex inactivation results in micronucleus biogenesis and cellular senescence.                                       | 0 |
| 435 | Contribution of senescent and reactive astrocytes on central nervous system inflammaging.. <b>2022</b> , 23, 21   | 0 |
| 434 | A Single-Center Study Evaluating the Effects of a Novel Retinol and Cannabidiol Combination Topical on Facial Skin.. <b>2022</b> , 4, ojac002               | 0 |
| 433 | Age Estimation from fMRI Data Using Recurrent Neural Network. <b>2022</b> , 12, 749   | 0 |
| 432 | Interconnections between Inflammaging and Immunosenescence during Ageing.. <b>2022</b> , 11,  | 6 |
| 431 | Spatially Confined Intervention of Cellular Senescence by a Lysosomal Metabolism Targeting Molecular Prodrug for Broad-Spectrum Senotherapy.. <b>2022</b> , | 2 |
| 430 | Age-related functional decline of human B cells.. <b>2022</b> , 74, 319-327   | 0 |
| 429 | G-quadruplexes Stabilization Upregulates CCN1 and Accelerates Aging in Cultured Cerebral Endothelial Cells. <b>2022</b> , 2,                                | 1 |
| 428 | Bcl-XL but Not Bcl-2 Is a Potential Target in Medulloblastoma Therapy.. <b>2022</b> , 15,   | 1 |
| 427 | Computational Methods for Single-Cell Imaging and Omics Data Integration.. <b>2021</b> , 8, 768106  | 1 |
| 426 | Approaches and Protocols to Analyze Autophagy and Its Role in Death of Apoptosis-Resistant Senescent Tumor Cells.. <b>2022</b> , 2445, 139-169              | 0 |



|     |   |   |
|-----|---|---|
| 425 | Adrenergic receptor antagonist doxazosin reverses hepatic stellate cells activation via induction of senescence.. <b>2021</b> , 201, 111617   | 2 |
| 424 | Mesenchymal Stem/Stromal Cell Senescence: Hallmarks, Mechanisms, and Combating Strategies.. <b>2022</b> , 11, 356-371   | 3 |
| 423 | Dietary intake of diosgenin delays aging of male fish <i>Nothobranchius guentheri</i> through modulation of multiple pathways that play prominent roles in ROS production.. <b>2022</b> , 1 | 0 |
| 422 | The Effects of Aging on the Hair Follicle. <b>2022</b> , 83-94  |   |
| 421 | Escape From Cisplatin-Induced Senescence of Hypoxic Lung Cancer Cells Can Be Overcome by Hydroxychloroquine.. <b>2021</b> , 11, 738385  | 1 |
| 420 | Fisetin as a Senotherapeutic Agent: Biopharmaceutical Properties and Crosstalk between Cell Senescence and Neuroprotection.. <b>2022</b> , 27,  | 0 |
| 419 | Tissue engineering strategies to bioengineer the ageing skin phenotype in vitro.. <b>2022</b> , e13550  | 1 |
| 418 | Small-molecule fluorescence-based probes for aging diagnosis. <b>2022</b> , 1,  | 1 |
| 417 | Spatially Confined Intervention of Cellular Senescence by a Lysosomal Metabolism Targeting Molecular Prodrug for Broad-Spectrum Senotherapy.  |   |
| 416 | Skin senescence: mechanisms and impact on whole-body aging.. <b>2022</b> ,  | 8 |
| 415 | Anastasis drives senescence and non-cell autonomous neurodegeneration in the astrogliopathy Alexander disease.. <b>2022</b> ,   |   |
| 414 | The role of cellular senescence and SASP in tumor microenvironment.. <b>2022</b> ,  | 2 |
| 413 | Exploring cellular senescence as a tumor suppressor mechanism. <b>2003</b> , 5, 249-265   | 2 |
| 412 | Developing a far-red fluorogenic beta-galactosidase probe for senescent cell imaging and photoablation.. <b>2022</b> , 12, 4543-4549  | 1 |
| 411 | Dynamic Spatiotemporal Expression Pattern of the Senescence-Associated Factor p16Ink4a in Development and Aging.. <b>2022</b> , 11,   | 1 |
| 410 | Age-dependent sequential increase of senescent cells in the skin.. <b>2022</b> ,  | 0 |
| 409 | MicroRNA-Mediated Downregulation of HMGB2 Contributes to Cellular Senescence in Microvascular Endothelial Cells.. <b>2022</b> , 11,   | 0 |
| 408 | Induction of senescence upon loss of the Ash2l core subunit of H3K4 methyltransferase complexes.  |   |

|     |   |   |
|-----|---|---|
| 407 | Untangling senescent and damage-associated microglia in the aging and diseased brain. <b>2021,</b>  | 3 |
| 406 | The Role of Decidual Subpopulations in Implantation, Menstruation and Miscarriage. <b>2021, 3,</b>  | 1 |
| 405 | Inflammation, Oxidative Stress, Senescence in Atherosclerosis: Thioredoxine-1 as an Emerging Therapeutic Target.. <b>2021, 23,</b>  | 4 |
| 404 | Microbiome and Human Aging: Probiotic and Prebiotic Potentials in Longevity, Skin Health and Cellular Senescence.. <b>2021, 13,</b>                                       | 6 |
| 403 | Development of a Novel Substrate-Free Ratiometric Electrochemical Sensor for Monitoring $\beta$ -Galactosidase in Parkinson's Disease Model Mice.                         |   |
| 402 | Cellular senescence and other aging mechanisms in bone and muscle. <b>2022, 19-37</b>   |   |
| 401 | Mesenchymal Stem Cell Behavior on Soft Hydrogels with Aligned Surface Topographies.. <b>2022,</b>   | 0 |
| 400 | Impaired differentiation of small airway basal stem/progenitor cells in people living with HIV.. <b>2022, 12, 2966</b>  | 1 |
| 399 | M2 macrophage-conditioned medium inhibits intervertebral disc degeneration in a tumor necrosis factor- $\beta$ rich environment.. <b>2022,</b>                            | 2 |
| 398 | Dasatinib plus quercetin attenuates some frailty characteristics in SAMP10 mice.. <b>2022, 12, 2425</b>   | 0 |
| 397 | Sirt1 Protects Subventricular Zone-Derived Neural Stem Cells from DNA Double-Strand Breaks and Contributes to Olfactory Function Maintenance in Aging Mice.. <b>2022,</b> | 0 |
| 396 | Downregulation of JMJD2a and LSD1 is involved in CK2 inhibition-mediated cellular senescence through the p53-SUV39h1 pathway. <b>2022, 55, 92-97</b>                      | 0 |
| 395 | Attenuation of intrinsic aging of the skin via elimination of senescent dermal fibroblasts with senolytic drugs.. <b>2022,</b>  | 2 |
| 394 | Flow cytometric single cell-based assay to simultaneously detect cell death, cell cycling, DNA content and cell senescence.. <b>2022,</b>                                 | 0 |
| 393 | Chemical Composition and Effect against Skin Alterations of Bioactive Extracts Obtained by the Hydrodistillation of Leaves.. <b>2022, 14,</b>                             | 5 |
| 392 | Lipids as Regulators of Cellular Senescence.. <b>2022, 13, 796850</b>   | 2 |
| 391 | Protective effects of cordycepin against d-galactose-induced aging in rats: A view from the heart.. <b>2022,</b>  | 0 |
| 390 | Role of Senescence in Tumorigenesis and Anticancer Therapy.. <b>2022, 2022, 5969536</b>   | 0 |

|     |  |   |
|-----|--|---|
| 389 | Crosstalk Between Senescent Bone Cells and the Bone Tissue Microenvironment Influences Bone Fragility During Chronological Age and in Diabetes.. <b>2022</b> , 13, 812157                    | 0 |
| 388 | Differential sensitivity of assays for determining vein endothelial cell senescence.. <b>2022</b> ,  | 1 |
| 387 | Depletion Promotes Endothelial Cell Senescence and Vascular Endothelial Dysfunction.. <b>2022</b> , 23,  | 0 |
| 386 | Bioactive Bacterial Nanocellulose Membranes Enriched with Labill. Leaves Aqueous Extract for Anti-Aging Skin Care Applications.. <b>2022</b> , 15,   | 0 |
| 385 | A rhodol-based fluorescent probe with a pair of hydrophilic and rotatable wings for sensitively monitoring intracellular polarity.. <b>2022</b> ,  | 0 |
| 384 | Involvement of autophagy in the maintenance of rat intervertebral disc homeostasis: an in-vitro and in-vivo RNA interference study of Atg5.. <b>2021</b> ,                                   | 2 |
| 383 | The roles of HMGB1 -produced DNA gaps in DNA protection and aging biomarker reversal.  | 2 |
| 382 | Olive phenols preserve lamin B1 expression reducing cGAS/STING/NFB-mediated SASP in ionizing radiation-induced senescence.. <b>2022</b> ,  | 3 |
| 381 | Fast assay to predict multipotent mesenchymal stromal cell replicative senescence dynamics.. <b>2022</b> ,   |   |
| 380 | Designing bioresponsive nanomaterials for intracellular self-assembly.. <b>2022</b> , 1-19   | 6 |
| 379 | Single-cell transcriptomics reveals cell type diversity of human prostate.. <b>2022</b> ,  |   |
| 378 | Senescence State in Mesenchymal Stem Cells at Low Passages: Implications in Clinical Use.. <b>2022</b> , 10, 858996  | 1 |
| 377 | Senescence Connects Autophagy Deficiency to Inflammation and Tumor Progression in the Liver.. <b>2022</b> ,  | 0 |
| 376 | Ionizing Radiation Induces Disc Annulus Fibrosus Senescence and Matrix Catabolism via MMP-Mediated Pathways.. <b>2022</b> , 23,  | 1 |
| 375 | Potential role of fibroblast senescence in malignant transformation of oral submucous fibrosis.. <b>2022</b> , 127, 105810   | 1 |
| 374 | Revisiting the structure of arabinogalactan from Lycium barbarum and the impact of its side chain on anti-ageing activity.. <b>2022</b> , 286, 119282  | 2 |
| 373 | Effects of chronic, daily exposures to low intensity blue light on human retinal pigment epithelial cells: Implications for the use of personal electronic devices. <b>2022</b> , 10, 100118 | 0 |
| 372 | Exerkines and long-term synaptic potentiation: Mechanisms of exercise-induced neuroplasticity.. <b>2022</b> , 66, 100993   | 0 |

|     |   |    |
|-----|---|----|
| 371 | GH and Senescence: A New Understanding of Adult GH Action.. <b>2022</b> , 6, bvab177  | 0  |
| 370 | Biomarkers of ageing in the study of occupational harm impacts (literature review). <b>2021</b> , 100, 1328-1332  |    |
| 369 | Myofibroblast Senescence Promotes Arrhythmogenic Remodeling in the Aged Infarcted Rabbit Heart.   |    |
| 368 | Metabolic reprogramming during hyperammonemia targets mitochondrial function and postmitotic senescence.. <b>2021</b> , 6,  | 2  |
| 367 | Immune Regulatory Processes of the Tumor Microenvironment under Malignant Conditions.. <b>2021</b> , 22,  | 2  |
| 366 | Pulsed electromagnetic fields attenuate glucocorticoid-induced bone loss by targeting senescent LepR bone marrow mesenchymal stromal cells.. <b>2021</b> , 112635 | 0  |
| 365 | Elimination of Senescent Cells by Polyphenols and Flavonoids. <b>2022</b> , 1-22  |    |
| 364 | Cellular Senescence in Adrenocortical Biology and Its Disorders.. <b>2021</b> , 10,   | 1  |
| 363 | Mechanisms and Regulation of Cellular Senescence. <b>2021</b> , 22,   | 12 |
| 362 | Glyoxal induces senescence in human keratinocytes through oxidative stress and activation of the AKT/FOXO3a/p27 pathway.. <b>2021</b> ,                           | 1  |
| 361 | Anterior gradient protein 2 is a marker of tumor aggressiveness in breast cancer and favors chemotherapy-induced senescence escape.. <b>2022</b> , 60,            | 0  |
| 360 | Cytosolic Self-DNA-A Potential Source of Chronic Inflammation in Aging.. <b>2021</b> , 10,  | 1  |
| 359 | Targeting IKK $\beta$ in androgen-independent prostate cancer causes phenotypic senescence and genomic instability.. <b>2021</b> ,                                | 0  |
| 358 | .. <b>2021</b> ,  | 3  |
| 357 | Senescent tumor cells: an overlooked adversary in the battle against cancer.. <b>2021</b> ,   | 2  |
| 356 | Single Cell Analysis Unveils the Role of the Tumor Immune Microenvironment and Notch Signaling in Dormant Minimal Residual Disease.. <b>2021</b> ,                | 2  |
| 355 | Long-term administration of red ginseng non-saponin fraction rescues the loss of skeletal muscle mass and strength associated with aging in mice. <b>2021</b> ,   |    |
| 354 | Intercellular interactions between mast cells and stromal fibroblasts obtained from canine cutaneous mast cell tumours.. <b>2021</b> , 11, 23881                  | 0  |

|     |  |   |
|-----|--|---|
| 353 | Advanced NIR ratiometric probes for intravital biomedical imaging. <b>2021,</b>  | 1 |
| 352 | Newborn and elderly skin: two fragile skins at higher risk of pressure injury.. <b>2021,</b>   | 0 |
| 351 | Cellular Senescence: Molecular Targets, Biomarkers, and Senolytic Drugs.. <b>2022, 23,</b>   | 1 |
| 350 | AIE-active Fluorescence Probes for Enzymes and Their Applications in Disease Theranostics. <b>2022, 355-397</b>  |   |
| 349 | SREBP1c-PARP1 axis tunes anti-senescence activity of adipocytes and ameliorates metabolic imbalance in obesity.. <b>2022,</b>  | 2 |
| 348 | Aggresome assembly at the centrosome is driven by CP110-CEP97-CEP290 and centriolar satellites.. <b>2022,</b>  | 3 |
| 347 | Long-term male-specific chronic pain via telomere- and p53-mediated spinal cord cellular senescence.. <b>2022, 132,</b>  | 1 |
| 346 | Cellular senescence in the Aging Brain: A promising target for neurodegenerative diseases.. <b>2022, 111675</b>  | 2 |
| 345 | Inflammatory Blood Biomarker Kynurenine Is Linked With Elevated Neuroinflammation and Neurodegeneration in Older Adults: Evidence From Two 1H-MRS Post-Processing Analysis Methods.. <b>2022, 13, 859772</b> | 1 |
| 344 | Selective autophagic degradation of ACLY (ATP citrate lyase) maintains citrate homeostasis and promotes oocyte maturation.. <b>2022,</b>   | 1 |
| 343 | Senescence-Associated Molecules and Tumor-Immune-Interactions as Prognostic Biomarkers in Colorectal Cancer.. <b>2022, 9, 865230</b>   | 0 |
| 342 | Lack of a p16/ARF locus in fish genome may underlie senescence resistance in the fish cell line, EPC.. <b>2022, 104420</b>   | 0 |
| 341 | Image_1.pdf. <b>2020,</b>  |   |
| 340 | Table_1.XLSX. <b>2020,</b>   |   |
| 339 | Data_Sheet_1.pdf. <b>2020,</b>   |   |
| 338 | Table_1.xlsx. <b>2020,</b>   |   |
| 337 | Table_2.xlsx. <b>2020,</b>   |   |
| 336 | Table_3.xlsx. <b>2020,</b>   |   |

335 Table\_1.XLSX. 2019,

334 Image\_1.TIF. 2019,

333 Image\_2.tif. 2019,

332 Image\_1.pdf. 2020,

331 Table\_1.xls. 2020,

330 Data\_Sheet\_1.docx. 2019,

329 image\_1.PDF. 2018,

328 Data\_Sheet\_1.PDF. 2020,

327 Data\_Sheet\_2.PDF. 2020,

326 Data\_Sheet\_3.PDF. 2020,

325 data\_sheet\_1.xlsx. 2018,

324 presentation\_1.PDF. 2018,

323 Image\_1.TIF. 2019,

322 Image\_2.TIF. 2019,

321 Image\_3.TIF. 2019,

320 Image\_4.TIF. 2019,

319 Image\_5.TIF. 2019,

318 DataSheet\_1.pdf. 2020,

317 Data\_Sheet\_1.pdf. **2019,**

316 Data\_Sheet\_1.XLSX. **2020,**

315 Image\_1.TIF. **2020,**

314 Image\_2.TIF. **2020,**

313 Image\_3.TIF. **2020,**

312 Table\_1.DOC. **2020,**

311 Table\_2.DOC. **2020,**

310 Presentation\_1.PDF. **2018,**

309 Data\_Sheet\_2.PDF. **2019,**

308 Image\_1.TIF. **2019,**

307 Image\_2.TIF. **2019,**

306 Image\_3.TIF. **2019,**

305 Image\_4.TIF. **2019,**

304 Image\_5.TIF. **2019,**

303 Image\_6.TIF. **2019,**

302 Image\_7.TIF. **2019,**

301 Image\_8.TIF. **2019,**

300 Unveiling a novel serpinB2/tripeptidyl peptidase II signaling axis during senescence.. **2022,**

o

|     |  |    |
|-----|--|----|
| 299 | Downregulation of JMJD2a and LSD1 is involved in CK2 inhibition-mediated cellular senescence through the p53-SUV39h1 pathway.. <b>2022,</b>                                  |    |
| 298 | Morphofunctional equivalent of skin changes in the age aspect and under the influence of exogenous factors. <b>2022, 11, 74-83</b>   |    |
| 297 | Detection of Cellular Senescence in Human Primary Melanocytes and Malignant Melanoma Cells In Vitro.. <b>2022, 11,</b>   | 1  |
| 296 | Nutrition Interventions of Herbal Compounds on Cellular Senescence.. <b>2022, 2022, 1059257</b>  |    |
| 295 | Blood-brain barrier dysfunction promotes astrocyte senescence through albumin-induced TGF $\beta$ signaling activation.  | 1  |
| 294 | Endoplasmic Reticulum (ER) Stress and Its Role in Pancreatic $\beta$ Cell Dysfunction and Senescence in Type 2 Diabetes.. <b>2022, 23,</b>                                   | 2  |
| 293 | Update on Facial Noninvasive Skin Tightening. <b>2022, 5, 145-155</b>  |    |
| 292 | Analysis of senescence in gingival tissues and gingival fibroblast cultures.. <b>2022,</b>   |    |
| 291 | From tryptophan to novel mitochondria-disruptive agent, synthesis and biological evaluation of 1,2,3,6-tetrasubstituted carbazoles. <b>2022, 114453</b>                      | 0  |
| 290 | The aging immune system in Alzheimer's and Parkinson's diseases.. <b>2022, 1</b>   | 1  |
| 289 | The translational challenges of precision oncology.. <b>2022,</b>  | 3  |
| 288 | Inhibition of matrix metalloproteinase expression by selective clearing of senescent dermal fibroblasts attenuates ultraviolet-induced photoaging.. <b>2022, 150, 113034</b> | 3  |
| 287 | Development of a novel ratiometric electrochemical sensor for monitoring $\beta$ galactosidase in Parkinson's disease model mice.. <b>2022, 210, 114301</b>                  | 0  |
| 286 | Cellular Aging and Metabolites in Aging. <b>2022, 77-95</b>  |    |
| 285 | To G0 or Not to G0: Cell Cycle Paradox in Senescence and Brain Aging. <b>2022, 97-113</b>  |    |
| 284 | Cellular senescence due to physical inactivity: A review. <b>2019, 8, 1</b>  |    |
| 283 | Contribution of Mitochondrial Dysfunction and Oxidative Stress to Cellular Premature Senescence Induced by Antiretroviral Thymidine Analogues. <b>2008, 13, 27-38</b>        | 66 |
| 282 | Low expression of PCK2 in breast tumors contributes to better prognosis via inducing senescence of cancer cells.. <b>2022,</b>   | 0  |



|     |   |        |
|-----|---|--------|
| 281 | miR-181b regulates vascular endothelial aging by modulating an MAP3K3 signaling pathway.. <b>2022</b> , 36, e22353  | 0      |
| 280 | Pyruvate kinase M1 suppresses development and progression of prostate adenocarcinoma.. <b>2022</b> ,  | 0      |
| 279 | Senescence-associated morphological profiles (SAMPs): an image-based phenotypic profiling method for evaluating the inter and intra model heterogeneity of senescence.. <b>2022</b> , 14,                                 | 0      |
| 278 | A natural variation-based screen in mouse cells reveals USF2 as a regulator of the DNA damage response and cellular senescence.   |        |
| 277 | Transcriptomic Signatures of Telomerase-Dependent and -Independent Ageing, in the Zebrafish gut and Brain.  |        |
| 276 | Antioxidants Attenuate Heat Shock Induced Premature Senescence of Bovine Mesenchymal Stem Cells. <b>2022</b> , 23, 5750   | 0      |
| 275 | Kill two birds with one stone: A near-infrared ratiometric fluorescent probe for simultaneous detection of $\beta$ -galactosidase in senescent and cancer cells. <b>2022</b> , 367, 132061                                | 0      |
| 274 | Cellular senescence. <b>2022</b> , 32, R448-R452  | 0      |
| 273 | Comparative analysis of mesenchymal stem cells cultivated in serum free media. <b>2022</b> , 12,  | 0      |
| 272 | p73 $\beta$ , a p73 C-terminal isoform, regulates tumor suppression and the inflammatory response via Notch1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, | 11.5 0 |
| 271 | Longevity in Cave Animals. 10,  | 1      |
| 270 | Age-Related Changes in the Fibroblastic Differon of the Dermis: Role in Skin Aging. <b>2022</b> , 23, 6135  | 1      |
| 269 | BloodBrain Barrier Dysfunction and Astrocyte Senescence as Reciprocal Drivers of Neuropathology in Aging. <b>2022</b> , 23, 6217  | 1      |
| 268 | Rapid and Live-cell Detection of Senescence in Mesenchymal Stem Cells by Micro Magnetic Resonance Relaxometry.  |        |
| 267 | NF- $\kappa$ B -dependent secretome of senescent cells can trigger neuroendocrine transdifferentiation of breast cancer cells.  | 0      |
| 266 | Cellular Senescence in Normal Mammary Gland and Breast Cancer. Implications for Cancer Therapy. <b>2022</b> , 13, 994   | 0      |
| 265 | Nucleus pulposus cell senescence is regulated by substrate stiffness and is alleviated by LOX possibly through the integrin $\alpha$ -p38 MAPK signaling pathway. <b>2022</b> , 113230                                    | 2      |
| 264 | Phytochemicals as new therapeutic candidates simultaneously stimulate proliferation and counteract senescence of stem cells. <b>2022</b> , 151, 113170  | 0      |

|     |   |   |
|-----|---|---|
| 263 | BAY 11-7082 inhibits the secretion of interleukin-6 by senescent human microglia. <b>2022</b> , 617, 30-35  |   |
| 262 | Specific Irreversible Cell-Cycle Arrest and Depletion of Cancer Cells Obtained by Combining Curcumin and the Flavonoids Quercetin and Fisetin. <b>2022</b> , 13, 1125                 | 0 |
| 261 | Heterogeneity of ILC2s in the Lungs. 13,  | 0 |
| 260 | Molecular origins of genome instability following a single chromosome mis-segregation event.  | 0 |
| 259 | Cellular senescence and the tumor microenvironment.   | 2 |
| 258 | JAK-STAT signaling mediates the senescence of cartilage-derived stem/progenitor cells.  | 0 |
| 257 | Molecular Mechanisms of Changes in Homeostasis of the Dermal Extracellular Matrix: Both Involutional and Mediated by Ultraviolet Radiation. <b>2022</b> , 23, 6655                    | 3 |
| 256 | Skin Aging in Long-Lived Naked Mole-Rats is Accompanied by Increased Expression of Longevity-Associated and Tumor Suppressor Genes. <b>2022</b> ,                                     |   |
| 255 | Focus on the Contribution of Oxidative Stress in Skin Aging. <b>2022</b> , 11, 1121   | 1 |
| 254 | Structure and biomedical applications of bioactive polyphenols from food and fruits.  | 0 |
| 253 | SCA $\beta$ Slows the Decline of Functional Parameters Associated with Senescence in Skin Cells. <b>2022</b> , 23, 6538   |   |
| 252 | The complete cell atlas of an aging multicellular organism.   | 1 |
| 251 | Doxorubicin-induced senescence in normal fibroblasts promotes in vitro tumour cell growth and invasiveness: the role of Quercetin in modulating these processes. <b>2022</b> , 111689 | 3 |
| 250 | Low-energy green light alleviates senescence-like phenotypes in a cell model of photoaging.   |   |
| 249 | The accelerated aging skin in rhino-like SHJH hr mice.  | 0 |
| 248 | Secretome of senescent hepatoma cells modulate immune cell fate by macrophage polarization and neutrophil extracellular traps formation. <b>2022</b> , 39,                            | 0 |
| 247 | Effects of aging and inflammation on catalase activity in human dental pulp. <b>2022</b> , 141, 105482  | 0 |
| 246 | Protocol for analysis of senescent neuronal stem cells in genetic-modified embryonic mice using in utero electroporation technique. <b>2022</b> , 3, 101461                           |   |

- 245 Whole-mount Senescence-Associated Beta-Galactosidase (SA- $\beta$ Gal) Activity Detection Protocol for Adult Zebrafish. **2022**, 12, 0
- 244 Mitochondrial Deregulation Drives Senescence via TPP1-Mediated Telomere Deprotection. **2022**, 11, 2079
- 243 LAM Cells as Potential Drivers of Senescence in Lymphangiomyomatosis Microenvironment. **2022**, 23, 7040 0
- 242 Time-resolved transcriptomic profiling of senescence-associated secretory phenotype (SASP) in multiple senescent cell subtypes.
- 241 Vitiligo as a potential degenerative disease: from oxidative stress to cellular senescence. **2022**, 4, 28-37
- 240 A Tandemly Activated Fluorescence Probe for Detecting Senescent Cells with Improved Selectivity by Targeting a Biomarker Combination. 2
- 239 Modeling of the Senescence-Associated Phenotype in Human Skin Fibroblasts. **2022**, 23, 7124 1
- 238 A subset of gut leukocytes has telomerase-dependent hyper-long telomeres and require telomerase for function in zebrafish. **2022**, 19,
- 237 Immunosenescence: A Critical Factor Associated With Organ Injury After Sepsis. 13, 0
- 236 Functional genomics for curation of variants in telomere biology disorder associated genes, a systematic review.
- 235 Progerin modulates the IGF-1R/Akt signaling involved in aging. **2022**, 8, 0
- 234 Pharmacological senolysis reduces doxorubicin-induced cardiotoxicity and improves cardiac function in mice. **2022**, 106356 1
- 233 Context-dependent roles of cellular senescence in normal, aged, and disease states. 1
- 232 Induction of senescence upon loss of the Ash2l core subunit of H3K4 methyltransferase complexes. 0
- 231 Comprehensive investigations of key mitochondrial metabolic changes in senescent human fibroblasts. **2022**, 26, 263-275 1
- 230 Establishment of blood glycosidase activities and their excursions in sepsis.
- 229 Extracellular Nicotinamide Phosphoribosyltransferase Is a Component of the Senescence-Associated Secretory Phenotype. 13,
- 228 Administration of krill oil extends lifespan of fish *Nothobranchius guentheri* via enhancement of antioxidant system and suppression of NF- $\kappa$ B pathway.

|     |   |    |
|-----|---|----|
| 227 | Novel roles of luteinizing hormone (LH) in tissue regeneration-associated functions in endometrial stem cells. <b>2022</b> , 13,  |    |
| 226 | Macrophages are polarized towards an inflammatory phenotype by their aged microenvironment in the human skin. <b>2022</b> ,   | 0  |
| 225 | Trabectedin suppresses escape from therapy-induced senescence in tumor cells by interfering with glutamine metabolism. <b>2022</b> , 202, 115159                          | 2  |
| 224 | Premature Senescence Is a Primary Fail-safe Mechanism of ERBB2-Driven Tumorigenesis in Breast Carcinoma Cells. <b>2005</b> , 65, 840-849                                  | 24 |
| 223 | Extracellular HSP90 $\alpha$ promotes cellular senescence by modulating TGF- $\beta$ signaling in pulmonary fibrosis. <b>2022</b> , 36,                                   | 0  |
| 222 | Pro-cancerogenic effects of spontaneous and drug-induced senescence of ovarian cancer cells in vitro and in vivo: a comparative analysis. <b>2022</b> , 15,               | 1  |
| 221 | Overexpression of miR-297b-5p Promotes Metformin-Mediated Protection Against Stearic Acid-Induced Senescence by Targeting Igf1r.  |    |
| 220 | Vascular senescence in progeria: role of endothelial dysfunction. <b>2022</b> , 2,  | 0  |
| 219 | Androgen-Induced MIG6 Regulates Phosphorylation of Retinoblastoma Protein and AKT to Counteract Non-Genomic AR Signaling in Prostate Cancer Cells. <b>2022</b> , 12, 1048 |    |
| 218 | CD44 Depletion in Glioblastoma Cells Suppresses Growth and Stemness and Induces Senescence. <b>2022</b> , 14, 3747  |    |
| 217 | Argonaute 2 modulates EGFR/RAS signaling to promote mutant HRAS and NRAS-driven malignancies. <b>2022</b> , 1,  | 1  |
| 216 | Impact of MnTBAP and Baricitinib Treatment on HutchinsonGilford Progeria Fibroblasts. <b>2022</b> , 15, 945   | 1  |
| 215 | Global research trends in atherosclerosis: A bibliometric and visualized study. 9,  | 0  |
| 214 | Chronological attenuation of NPRA / PKG / AMPK signaling promotes vascular aging and elevates blood pressure.   | 0  |
| 213 | Cell Senescence-Independent Ageing of Human Skin.   | 0  |
| 212 | Food for healthier aging: power on your plate. 1-14   |    |
| 211 | A review of pathobiological mechanisms and potential application of medicinal plants for vascular aging: focus on endothelial cell senescence.                            |    |
| 210 | New Trends in Aging Drug Discovery. <b>2022</b> , 10, 2006  |    |

- 209 Preserving and rejuvenating old organs for transplantation: novel treatments including the potential of senolytics. Publish Ahead of Print, 0
- 208 Swiss Medical Devices for Autologous Regenerative Medicine: From Innovation to Clinical Validation. **2022**, 14, 1617
- 207 Simple Detection of Unstained Live Senescent Cells with Imaging Flow Cytometry. **2022**, 11, 2506 0
- 206 Mechanisms involved in hematopoietic stem cell aging. **2022**, 79, 1
- 205 Alteration of E2F2 Expression in Governing Endothelial Cell Senescence. **2022**, 13, 1522 0
- 204 Targeting senescent cells for a healthier longevity: the roadmap for an era of global aging. 2
- 203 Impaired Cdc20 signaling promotes senescence in normal cells and apoptosis in non-small cell lung cancer cells. **2022**, 102405 0
- 202 Targeting MDM4 as a Novel Therapeutic Approach in Prostate Cancer Independent of p53 Status. **2022**, 14, 3947 0
- 201 Skin-Aging Pigmentation: Who Is the Real Enemy?. **2022**, 11, 2541 1
- 200 Pro-tumorigenic role of type 2 diabetes-induced cellular senescence in colorectal cancer. 12, 0
- 199 Effects of smoking on the tissue regeneration-associated functions of human endometrial stem cells via a novel target gene SERPINB2. **2022**, 13,
- 198 Defective bone repletion in aged Balb/cBy mice was caused by impaired osteoblastic differentiation.
- 197 Immunoglobulin G glycans [Biomarkers and molecular effectors of aging. **2022**, 535, 30-45
- 196 SARS-CoV-2 spike S1 subunit protein-mediated increase of beta-secretase 1 (BACE1) impairs human brain vessel cells. **2022**, 626, 66-71 1
- 195 The Expression of MMP and Osteopontin in Osteoarthritic Knee Cartilage and Their Correlations With Disease Severity and Chondrocyte Senescence. Publish Ahead of Print, 0
- 194 STING mediates nuclear PD-L1 targeting-induced senescence in cancer cells. **2022**, 13, 2
- 193 Cellular senescence and abdominal aortic aneurysm: From pathogenesis to therapeutics. 9, 0
- 192 LONP1 downregulation with ageing contributes to osteoarthritis via mitochondrial dysfunction. **2022**, 191, 176-190 1

|     |   |   |
|-----|---|---|
| 191 | Healthspan improvement and anti-aggregation effects induced by a marine-derived structural proteasome activator. <b>2022</b> , 56, 102462   | 0 |
| 190 | Exogenous hydrogen sulfide inhibits the senescence of cardiomyocytes through modulating mitophagy in rats. <b>2022</b> , 100, 110465  | 1 |
| 189 | Intercellular communication and aging. <b>2023</b> , 257-274  | 1 |
| 188 | Cellular mechanisms of aging. <b>2023</b> , 45-51   | 0 |
| 187 | Targeting Cellular Senescence with Senotherapeutics: Development of New Approaches for Skin Care. <b>2022</b> , 150, 12S-19S  | 0 |
| 186 | Nanoscale biophysical properties of small extracellular vesicles from senescent cells using atomic force microscopy, surface potential microscopy, and Raman spectroscopy.          | 1 |
| 185 | Local IL-17 orchestrates skin aging.  | 0 |
| 184 | Brief about hallmarks of aging. <b>2022</b> , 41-60   | 0 |
| 183 | A senolysis-based theragnostic prodrug strategy towards chronic renal failure.  | 0 |
| 182 | Cell Division/Death: Cell Cycle [Cellular Senescence. <b>2022</b> ,   | 0 |
| 181 | Elimination of Senescent Cells by Polyphenols and Flavonoids. <b>2022</b> , 3-24  | 0 |
| 180 | Multiple Sclerosis and Aging: The Dynamics of Demyelination and Remyelination. <b>2022</b> , 14, 175909142211185  | 0 |
| 179 | Design, synthesis, and evaluation of a novel PET imaging agent targeting lipofuscin in senescent cells. <b>2022</b> , 12, 26372-26381   | 0 |
| 178 | P16INK4A More Than a Senescence Marker. <b>2022</b> , 12, 1332  | 3 |
| 177 | The Role of Extracellular Vesicles in Senescence. <b>2022</b> , 45, 603-609   | 2 |
| 176 | Senescence and cancer [Role and therapeutic opportunities. <b>2022</b> , 19, 619-636  | 4 |
| 175 | Senescence-Independent Anti-Inflammatory Activity of the Senolytic Drugs Dasatinib, Navitoclax, and Venetoclax in Zebrafish Models of Chronic Inflammation. <b>2022</b> , 23, 10468 | 1 |
| 174 | Sub-lethal doses of chemotherapeutic agents induce senescence in T cells and upregulation of PD-1 expression.   | 0 |

|     |  |   |
|-----|--|---|
| 173 | Cellular senescence and cardiovascular diseases: moving to the "heart" of the problem.   | 0 |
| 172 | Therapeutic Effect of Icaritin on Cerebral Ischemia-Reperfusion-Induced Senescence and Apoptosis in an Acute Ischemic Stroke Mouse Model. <b>2022</b> , 27, 5783               | 0 |
| 171 | Citicoline Eye Drops Protect Trabecular Meshwork Cells from Oxidative Stress Injury in a 3D In Vitro Glaucoma Model. <b>2022</b> , 23, 11375                                   | 0 |
| 170 | Lipopolysaccharides and Cellular Senescence: Involvement in Atherosclerosis. <b>2022</b> , 23, 11148   | 1 |
| 169 | Expression of the cytokinesis regulator PRC1 results in p53-pathway activation in A549 cells but does not directly regulate gene expression in the nucleus. 1-14               | 0 |
| 168 | Advanced age is associated with changes in alveolar macrophages and their responses to the stress of traumatic injury.   | 0 |
| 167 | Senescence-Associated $\beta$ Galactosidase Detection in Pathology. <b>2022</b> , 12, 2309   | 1 |
| 166 | Palbociclib Enhances Migration and Invasion of Cancer Cells via Senescence-Associated Secretory Phenotype-Related CCL5 in Non-Small-Cell Lung Cancer. <b>2022</b> , 2022, 1-14 | 0 |
| 165 | The lysosomal proteome of senescent cells contributes to the senescence secretome.   | 0 |
| 164 | Cellular senescence: a promising therapeutic target in colorectal cancer.  | 0 |
| 163 | Autophagy May Mediate Cellular Senescence by Nicotine Stimulation in Gingival Fibroblasts. <b>2022</b> , 22, 164-170   | 0 |
| 162 | Establishment of In Vitro Models by Stress-Induced Premature Senescence for Characterizing the Stromal Vascular Niche in Human Adipose Tissue. <b>2022</b> , 12, 1459          | 1 |
| 161 | Green tea catechol (-)-epigallocatechin gallate (EGCG) conjugated with phenylalanine shows enhanced autophagy stimulating activity in human aortic endothelial cells.          | 0 |
| 160 | COVID-19 and cellular senescence.  | 0 |
| 159 | RagC GTPase regulates mTOR to promote chemoresistance in senescence-like HepG2 cells. 13,  | 0 |
| 158 | Restoration of lysosomal and mitochondrial function through p38 MAPK inhibition ameliorates senescence.  | 0 |
| 157 | Oxidative stress, lipid peroxidation and premature placental senescence in preeclampsia. <b>2022</b> , 730, 109416   | 1 |
| 156 | Targeting Cellular Senescence for Age-Related Diseases: Path to Clinical Translation. <b>2022</b> , 150, 20S-26S   | 1 |

- 155 Snapshot imprinting as a tool for surface mapping and identification of novel biomarkers of senescent cells. ○
- 154 The relationships between neuroglial alterations and neuronal changes in Alzheimer's disease, and the related controversies I: Gliopathogenesis and glioprotection. **2022**, 14, 117957352211287 ○
- 153 The original colorimetric method to detect cellular senescence. **2022**, ○
- 152 High Hemin Concentration Induces Escape from Senescence of Normoxic and Hypoxic Colon Cancer Cells. **2022**, 14, 4793 ○
- 151 Accumulation of senescence observed in spinocerebellar ataxia type 7 mouse model. **2022**, 17, e0275580 ○
- 150 Platelet lysate can support the development of a 3D-engineered skin for clinical application. ○
- 149 Telomere-induced senescence increases aberrant intraneuronal amyloid- $\beta$  accumulation by impairing autophagy in a mouse model of Alzheimer's disease. ○
- 148 Cell-Based Model Systems for Validation of Various Efficacy-Based Claims for Cosmetic Ingredients. **2022**, 9, 107 1
- 147 Nicandra physalodes Extract Exerts Antiaging Effects in Multiple Models and Extends the Lifespan of *Caenorhabditis elegans* via DAF-16 and HSF-1. **2022**, 2022, 1-13 ○
- 146 Anti-Inflammatory and Antioxidant Properties of *Physalis alkekengi* L. Extracts In Vitro and In Vivo: Potential Application for Skin Care. **2022**, 2022, 1-16 ○
- 145 Metformin Improves Tendon Degeneration by Blocking Translocation of HMGB1 and Suppressing Tendon Inflammation and Senescence in Aging Mice. ○
- 144 FOXP3+ regulatory T cells and the immune escape in solid tumours. 13, ○
- 143 Therapy-induced senescence enhances the efficacy of HER2-targeted antibody-drug conjugates in breast cancer. ○
- 142 Gangliosides and Cell Surface Ganglioside Metabolic Enzymes in the Nervous System. **2023**, 305-332 ○
- 141 The uniformity and stability of cellular mass density in mammalian cell culture. 10, ○
- 140 Induction and Characterization of Cellular Senescence in Salamanders. **2023**, 135-154 ○
- 139 Effectiveness of hypofractionated and normofractionated radiotherapy in a triple-negative breast cancer model. 12, ○
- 138 Photocatalysis in the Skin Related to UVA Photoaging. ○



|     |  |   |
|-----|--|---|
| 137 | Effect of Replicative Senescence on the Expression and Function of Transporters in Human Proximal Renal Tubular Epithelial Cells. <b>2022</b> , 45, 1636-1643  | 0 |
| 136 | Temperature dependent cellular, and epigenetic regulatory mechanisms underlying the antiviral immunity in sevenband grouper to nervous necrosis virus infection. <b>2022</b> ,   | 0 |
| 135 | Ergothioneine and its prospects as an anti-ageing compound. <b>2022</b> , 170, 111982  | 3 |
| 134 | The relationships between neuroglial and neuronal changes in Alzheimer's disease, and the related controversies II: gliotherapies and multimodal therapy. <b>2022</b> , 14, 117957352211238                              | 0 |
| 133 | Signs of Similarities and Differences in Cellular Models of Aging: A Scoping Review. <b>2022</b> , 77, 139-146   | 0 |
| 132 | Histones and their chaperones: Adaptive remodelers of an ever-changing chromatinic landscape. 13,  | 0 |
| 131 | The Molecular and Cellular Strategies of Glioblastoma and Non-Small-Cell Lung Cancer Cells Conferring Radioresistance. <b>2022</b> , 23, 13577   | 0 |
| 130 | Evolving an Ultra-Sensitive Near-Infrared $\beta$ -Galactosidase Fluorescent Probe for Breast Cancer Imaging and Surgical Resection Navigation.  | 0 |
| 129 | The efficacy of chemotherapy is limited by intratumoural senescent cells that persist through the upregulation of PD-L2.   | 0 |
| 128 | Galactosidase-catalyzed fluorescence amplification method (GAFAM): sensitive fluorescent immunohistochemistry using novel fluorogenic $\beta$ -galactosidase substrates and its application in multiplex immunostaining. | 1 |
| 127 | H2S contributed from CSE during cellular senescence suppresses inflammation and nitrosative stress. <b>2022</b> , 119388   | 0 |
| 126 | A potential role of autophagy-mediated vascular senescence in the pathophysiology of HFpEF. 13,  | 0 |
| 125 | Temporal inhibition of electron transport chain attenuates stress-induced cellular senescence by prolonged disturbance of proteostasis in human fibroblasts.   | 0 |
| 124 | 11-Cl-BBQ , a Select Modulator of AhR -regulated Transcription, Suppresses Lung Cancer Cell Growth via activation of p53 and p27 Kip1 .  | 1 |
| 123 | In Vitro Study of the Therapeutic Potential of Brown Crude Fucoidans in Osteoarthritis Treatment. <b>2022</b> , 23, 14236  | 1 |
| 122 | Post-Translational Modifications Evoked by Reactive Carbonyl Species in Ultraviolet-A-Exposed Skin: Implication in Fibroblast Senescence and Skin Photoaging. <b>2022</b> , 11, 2281                                     | 1 |
| 121 | Senescent cells and SASP in cancer microenvironment: New approaches in cancer therapy. <b>2022</b> ,   | 0 |
| 120 | Quantification of beta-galactosidase activity as a marker of radiation-driven cellular senescence. <b>2022</b> ,   | 0 |

- 119 Dynamic and scalable assessment of the senescence-associated secretory phenotype (SASP). **2022**, 0
- 118 Circadian clock gene Clock-Bmal1 regulates cellular senescence in Chronic obstructive pulmonary disease. **2022**, 22, 0
- 117 Systematic Approach Identifies Multiple Transcription Factor Perturbations That Rejuvenate Replicatively Aged Human Skin Fibroblasts. 0
- 116 Integration of mass-spectrometry-based global metabolomics and proteomics analysis to characterise different senescence induced molecular sub-phenotypes. 0
- 115 Preventive Effect of Nuciferine on H2O2-Induced Fibroblast Senescence and Pro-Inflammatory Cytokine Gene Expression. **2022**, 27, 8148 0
- 114 Cell Cycle and Senescence Regulation by Podocyte Histone Deacetylase 1 and 2. ASN.2022050598 0
- 113 Role of the Hypoxic-Secretome in Seed and Soil Metastatic Preparation. **2022**, 14, 5930 0
- 112 Cystatin B deficiency results in sustained histone H3 tail cleavage in postnatal mouse brain mediated by increased chromatin-associated cathepsin L activity. 15, 0
- 111 Hypoxic potentiation of cytoskeleton prevents oncogene-induced senescence. 0
- 110 The botanical drug PBI-05204, a supercritical CO2 extract of Nerium oleander, sensitizes alveolar and embryonal rhabdomyosarcoma to radiotherapy in vitro and in vivo. 13, 0
- 109 NIH SenNet Consortium to map senescent cells throughout the human lifespan to understand physiological health. **2022**, 2, 1090-1100 0
- 108 Zebrafish Models for Skeletal Muscle Senescence: Lessons from Cell Cultures and Rodent Models. **2022**, 27, 8625 0
- 107 Phytocannabinoids Stimulate Rejuvenation and Prevent Cellular Senescence in Human Dermal Fibroblasts. **2022**, 11, 3939 0
- 106 Senolytic Therapy: A Potential Approach for the Elimination of Oncogene-Induced Senescent HPV-Positive Cells. **2022**, 23, 15512 0
- 105 Cellular senescence in cancer: clinical detection and prognostic implications. **2022**, 41, 1
- 104 Discovery of small molecule mechanistic target of rapamycin inhibitors as anti-aging and anti-cancer therapeutics. 14, 0
- 103 Exosomal transfer of miR-181b-5p confers senescence-mediated doxorubicin resistance via modulating BCLAF1 in breast cancer. 0
- 102 Cannabidiol-induced transcriptomic changes and cellular senescence in human Sertoli cells. 1

|     |  |   |
|-----|--|---|
| 101 | Current Understanding of the Role of Senescent Melanocytes in Skin Ageing. <b>2022</b> , 10, 3111  | 0 |
| 100 | DPP4-Truncated CXCL12 Alters CXCR4/ACKR3 Signaling, Osteogenic Cell Differentiation, Migration, and Senescence.  | 0 |
| 99  | Minoxidil Regulates Aging-Like Phenotypes in Rat Cortical Astrocytes In Vitro . <b>2022</b> ,  | 0 |
| 98  | Senescent response in inner annulus fibrosus cells in response to TNF $\alpha$ -H <sub>2</sub> O <sub>2</sub> , and TNF $\alpha$ -induced nucleus pulposus senescent secretome.                          | 0 |
| 97  | Senescence induced by UVB in keratinocytes impairs amino acids balance. <b>2022</b> ,  | 0 |
| 96  | Premature aging in childhood cancer survivors (Review). <b>2022</b> , 25,  | 0 |
| 95  | Identification of Apolipoprotein D as a dermal fibroblast marker of human aging for development of skin rejuvenation therapy.  | 1 |
| 94  | Functional genomics for curation of variants in telomere biology disorder associated genes, a systematic review.. <b>2022</b> ,  | 0 |
| 93  | Common protein-coding variants influence the racing phenotype in galloping racehorse breeds. <b>2022</b> , 5,  | 0 |
| 92  | Functional restoration of lysosomes and mitochondria through modulation of AKT activity ameliorates senescence. <b>2023</b> , 112091   | 1 |
| 91  | Transcriptional activity mediated by $\beta$ CATENIN and TCF/LEF family members is completely dispensable for survival and propagation of multiple human colorectal cancer cell lines. <b>2023</b> , 13, | 0 |
| 90  | Blood-Brain barrier dysfunction promotes astrocyte senescence through albumin-induced TGF $\beta$ signaling activation.  | 0 |
| 89  | Adult T-Cell Leukemia and Retinoid. <b>2016</b> , 3, 1-5   | 0 |
| 88  | N,N'-Diaryurea Derivatives (CTPPU) Inhibited NSCLC Cell Growth and Induced Cell Cycle Arrest through Akt/GSK-3 $\beta$ -Myc Signaling Pathway. <b>2023</b> , 24, 1357                                    | 0 |
| 87  | DNA damage-induced cellular senescence is regulated by 53BP1 accumulation in the nuclear foci and phase separation.  | 0 |
| 86  | The BET inhibitor/degrader ARV-825 prolongs the growth arrest response to Fulvestrant + Palbociclib and suppresses proliferative recovery in ER-positive breast cancer. 12,                              | 0 |
| 85  | Mitochondrial Metabolism in X-Irradiated Cells Undergoing Irreversible Cell-Cycle Arrest. <b>2023</b> , 24, 1833   | 0 |
| 84  | IL-1 and senescence: Friends and foe of EGFR neutralization and immunotherapy. 10,   | 0 |

- 83 Therapeutic Opportunities Presented by Modulation of Cellular Senescence. **2023**, 175-193 ○
- 82 Mesenchymal stromal cell senescence in haematological malignancies. ○
- 81 The metabolite alpha-ketobutyrate extends lifespan by promoting peroxisomal function in *C. elegans*. **2023**, 14, 1
- 80 Sensitive imaging of Endoplasmic reticulum (ER) autophagy with an acidity-reporting ER-Tracker. 1-11 ○
- 79 The expression of fibrosis-related genes is elevated in doxorubicin-induced senescent human dermal fibroblasts, but their secretome does not trigger a paracrine fibrotic response in non-senescent cells. 1
- 78 Senescent cardiac fibroblasts: A key role in cardiac fibrosis. **2023**, 166642 ○
- 77 Damage-induced senescent immune cells regulate regeneration of the zebrafish retina. ○
- 76 Cellular Senescence and Ageing. **2023**, 139-173 ○
- 75 Selenylated Imidazo[1,2-a]pyridine Induces Cell Senescence and Oxidative Stress in Chronic Myeloid Leukemia Cells. **2023**, 28, 893 ○
- 74 BLM helicase determines chemotherapy-induced responses of human glioma cells and shifts between apoptosis, senescence or polyploidy. ○
- 73 Histone methyltransferase Smyd2 drives vascular aging by its enhancer-dependent activity. **2023**, 15, 70-91 ○
- 72 Activation and Metabolic Shifting: An Essential Process to Mesenchymal Stromal Cells Function. ○
- 71 Galactosidase-Activatable Nile Blue-Based NIR Senoprobe for the Real-Time Detection of Cellular Senescence. ○
- 70 Cellular uptake and retention studies of silica nanoparticles utilizing senescent fibroblasts. **2023**, 13, ○
- 69 Insights into the role of senescence in tumor dormancy: mechanisms and applications. ○
- 68 Genomic instability caused by Arp2/3 complex inactivation results in micronucleus biogenesis and cellular senescence. **2023**, 19, e1010045 ○
- 67 Radiation-induced gastrointestinal (GI) syndrome as a function of age. **2023**, 9, ○
- 66 Senolytics in diseases. **2023**, 245-267 ○

- 65 Plexin-A2 enables the proliferation and the development of tumors from glioblastoma derived cells. **2023**, 14,
- 64 Comparison of cell response to chromatin and DNA damage.
- 63 Base-Exchange Enabling the Visualization of SARM1 Activities in Sciatic Nerve-Injured Mice.
- 62 A senolytic strategy integrating multiple technologies delays aging.
- 61 NIR-excited imaging and in vivo visualization of  $\beta$ -galactosidase activity using a pyranonitrile-modified upconversion nanoprobe. **2023**, 292, 122411
- 60 Therapy-Induced Tumor Cell Senescence: Mechanisms and Circumvention. **2023**, 88, 86-104
- 59 Excessive apoptosis of naïve T cells resulting hyperactivation as a cause of mammalian aging.
- 58 Implication of Cellular Senescence in Osteoarthritis: A Study on Equine Synovial Fluid Mesenchymal Stromal Cells. **2023**, 24, 3109
- 57 Gain-of-Function p53N236S Mutation Drives the Bypassing of HRasV12-Induced Cellular Senescence via PGC1 $\beta$ . **2023**, 24, 3790
- 56 An involvement of Hippo-yes-associated protein pathway in biliary epithelial senescence in primary biliary cholangitis. **2023**, 47, 102106
- 55 Yearning for machine learning: applications for the classification and characterisation of senescence.
- 54 Senescence-induced alteration of circadian phagocytic activity of retinal pigment epithelium cell line ARPE-19. **2023**, 658, 88-96
- 53 Repurposing digoxin for geroprotection in patients with frailty and multimorbidity. **2023**, 86, 101860
- 52 p15INK4B is an alternative marker of senescent tumor cells in colorectal cancer. **2023**, 9, e13170
- 51 Vertical Vibration of Mouse Osteoblasts Promotes Cellular Differentiation and Cell Cycle Progression and Induces Aging In Vitro. **2023**, 11, 444
- 50 Intestinal Epithelial Cells Adapt to Chronic Inflammation through Partial Genetic Reprogramming. **2023**, 15, 973
- 49 Selective ablation of primary and paracrine senescent cells by targeting iron dyshomeostasis. **2023**, 42, 112058
- 48 Integrative analysis of immune infiltration and microenvironment characteristics in renal clear cell carcinoma induced by cell senescence.

- 47 Hyaluronan-Induced CD44-iASPP Interaction Affects Fibroblast Migration and Survival. **2023**, 15, 1082 1
- 46 The Potential of Senescence as a Target for Developing Anticancer Therapy. **2023**, 24, 3436 0
- 45 Hallmarks and Biomarkers of Skin Senescence: An Updated Review of Skin Senotherapeutics. **2023**, 12, 444 0
- 44 Basic Methods of Cell Cycle Analysis. **2023**, 24, 3674 0
- 43 Vutiglabridin Alleviates Cellular Senescence Process of Dysfunctional Replication, Metabolic Regulation, and Circadian Clock in Primary Human Dermal Fibroblasts. 0
- 42 Use of Natural Agents and Agrifood Wastes for the Treatment of Skin Photoaging. **2023**, 12, 840 0
- 41 Promoting TFEB nuclear localization with curcumin analog C1 attenuates sensory hair cell injury and delays age-related hearing loss in C57BL/6 mice. **2023**, 95, 218-231 0
- 40 Systematic estimation of biological age of in vitro cell culture systems by an age-associated marker panel. 4, 0
- 39 Fiji-Based Tool for Rapid and Unbiased Analysis of SA- $\beta$ Gal Activity in Cultured Cells. **2023**, 13, 362 0
- 38 The Skin Microbiome: Current Landscape and Future Opportunities. **2023**, 24, 3950 1
- 37 LPS Triggers Acute Neuroinflammation and Parkinsonism Involving NLRP3 Inflammasome Pathway and Mitochondrial CI Dysfunction in the Rat. **2023**, 24, 4628 0
- 36 Cellular senescence and developmental defects. **2023**, 290, 1303-1313 1
- 35 Cellular senescence with SASP in periodontal ligament cells triggers inflammation in aging periodontal tissue. 0
- 34 Panic at the Bile Duct. **2023**, 0
- 33 Fibroblast heterogeneity: Keystone of tissue homeostasis and pathology in inflammation and ageing. 14, 0
- 32 SARS-CoV-2 infection induces DNA damage, through CHK1 degradation and impaired 53BP1 recruitment, and cellular senescence. **2023**, 25, 550-564 0
- 31 Short-term molecular consequences of chromosome mis-segregation for genome stability. **2023**, 14, 0
- 30 A near-infrared fluorescent probe for fast and precise imaging of senescent cells and ovarian cancer cells via tracking  $\beta$ galactosidase. **2023**, 108321 0

- 29 Melatonin ameliorates glyphosate- and hard water-induced renal tubular epithelial cell senescence via PINK1-Parkin-dependent mitophagy. **2023**, 255, 114719 ○
- 28 PARP1 inhibition mediates a switch from necrosis to senescence that favors repair from acute oxidative injury. ○
- 27 Emerging Therapeutic Approaches to Target the Dark Side of Senescent Cells: New Hopes to Treat Aging as a Disease and to Delay Age-Related Pathologies. **2023**, 12, 915 ○
- 26 Detection of Cellular Senescence Reveals the Existence of Senescent Tumor Cells within Invasive Breast Carcinomas and Related Metastases. **2023**, 15, 1860 ○
- 25 TREM2-dependent senescent microglia conserved in aging and Alzheimer's disease. ○
- 24 The intensities of canonical senescence biomarkers integrate the duration of cell-cycle withdrawal. ○
- 23 A New Landscape of Human Dental Aging: Causes, Consequences, and Intervention Avenues. **2022**, 0 ○
- 22 A three-marker signature identifies senescence in human breast cancer exposed to neoadjuvant chemotherapy. **2023**, 91, 345-360 ○
- 21 Sub-lethal doses of chemotherapeutic agents induce senescence in T cells and upregulation of PD-1 expression. ○
- 20 Phosphoglycerate dehydrogenase activates PKM2 to phosphorylate histone H3T11 and attenuate cellular senescence. **2023**, 14, ○
- 19 Senotherapeutics: An emerging approach to the treatment of viral infectious diseases in the elderly. 13, ○
- 18 Introducing aesthetic regenerative scaffolds: An immunological perspective. **2023**, 22, 8-14 ○
- 17 SEMA6C: a novel adhesion-independent FAK and YAP activator, required for cancer cell viability and growth. **2023**, 80, ○
- 16 Survival Differences by Comorbidity Burden among Patients with Stage I/II Non-Small-Cell Lung Cancer after Thoracoscopic Resection. **2023**, 15, 2075 ○
- 15 Coming of age: Annual onset of coral reproduction is determined by age rather than size. **2023**, 26, 106533 ○
- 14 Temporal inhibition of the electron transport chain attenuates stress-induced cellular senescence by prolonged disturbance of proteostasis in human fibroblasts. ○
- 13 Metformin Ameliorates D-Galactose-Induced Senescent Human Bone Marrow-Derived Mesenchymal Stem Cells by Enhancing Autophagy. **2023**, 2023, 1-14 ○
- 12 Cellular senescence and the blood-brain barrier: Implications for aging and age-related diseases. 153537022311579 ○

- 11 Bile Duct Diseases. **2024**, 556-643 ○
- 10 Ageing-associated changes in transcriptional elongation influence longevity. ○
- 9 Hypoxia and Senescence: Role of Oxygen in Modulation of Tumor Suppression. **2023**, 89-117 ○
- 8 Natural Sun-Screening Compounds and DNA-Repair Enzymes: Photoprotection and Photoaging. **2023**, 13, 745 ○
- 7 Characterization of the HDAC/PI3K inhibitor CUDC-907 as a novel senolytic. **2023**, 15, 2373-2394 ○
- 6 Increased Galactosidase Beta 1 Expression as a Senescent Key Factor in  $\beta$ Cells Function Modulation at the Early Steps of Type 2 Diabetes. ○
- 5 Genetic Deletion of FXR1 Reduces Intimal Hyperplasia and Induces Senescence in Vascular Smooth Muscle Cells. **2023**, 193, 638-653 ○
- 4 Biomarkers of aging. ○
- 3 A chronic wound model to investigate skin cellular senescence. ○
- 2 Tubacin Histone Deacetylase 6 Inhibitor Produced  $\beta$ Tubulin Acetylation, Cell Cycle Arrest, Aging, and Suppression of Migration of Mouse Fibroblasts Transformed by E1A and cHa-ras Oncogenes. **2023**, 17, 133-145 ○
- 1 Immunosenescence: molecular mechanisms and diseases. **2023**, 8, ○