Umberto Galderisi

List of Publications by Citations

128 papers	5,090 citations	37 h-index	68 g-index
142 ext. papers	5,980 ext. citations	5.5 avg, IF	5.91 L-index

#	Paper	IF	Citations
128	Clinical Trials With Mesenchymal Stem Cells: An Update. *Cell Transplantation*, **2016**, 25, 829-48	4	826
127	From the laboratory bench to the patients bedside: an update on clinical trials with mesenchymal stem cells. *Journal of Cellular Physiology*, **2007**, 211, 27-35	7	519
126	Detection and characterization of CD133+ cancer stem cells in human solid tumours. *PLoS ONE*, **2008**, 3, e3469	3.7	222
125	Cell cycle regulation and neural differentiation. *Oncogene*, **2003**, 22, 5208-19	9.2	197
124	Unbiased analysis of senescence associated secretory phenotype (SASP) to identify common components following different genotoxic stresses. *Aging*, **2016**, 8, 1316-29	5.6	133
123	Insulin-like growth factor binding proteins 4 and 7 released by senescent cells promote premature senescence in mesenchymal stem cells. *Cell Death and Disease*, **2013**, 4, e911	9.8	114
122	Antisense oligonucleotides as therapeutic agents. *Journal of Cellular Physiology*, **1999**, 181, 251-7	7	111
121	The gap between the physiological and therapeutic roles of mesenchymal stem cells. *Medicinal Research Reviews*, **2014**, 34, 1100-26	14.4	101
120	Molecular pathways involved in neural in vitro differentiation of marrow stromal stem cells. *Journal of Cellular Biochemistry*, **2005**, 94, 645-55	4.7	97
119	Low dose radiation induced senescence of human mesenchymal stromal cells and impaired the autophagy process. *Oncotarget*, **2015**, 6, 8155-66	3.3	87
118	The carnitine system and cancer metabolic plasticity. *Cell Death and Disease*, **2018**, 9, 228	9.8	80
117	Changes in autophagy, proteasome activity and metabolism to determine a specific signature for acute and chronic senescent mesenchymal stromal cells. *Oncotarget*, **2015**, 6, 39457-68	3.3	78
116	Intra-brain microinjection of human mesenchymal stem cells decreases allodynia in neuropathic mice. *Cellular and Molecular Life Sciences*, **2010**, 67, 655-69	10.3	77
115	Blockade of glutamate mGlu5 receptors in a rat model of neuropathic pain prevents early over-expression of pro-apoptotic genes and morphological changes in dorsal horn lamina II. *Neuropharmacology*, **2004**, 46, 468-79	5.5	71
114	Curcumin, Gut Microbiota, and Neuroprotection. *Nutrients*, **2019**, 11,	6.7	69
113	Long-lasting effects of human mesenchymal stem cell systemic administration on pain-like behaviors, cellular, and biomolecular modifications in neuropathic mice. *Frontiers in Integrative Neuroscience*, **2011**, 5, 79	3.2	69
112	Metabolic syndrome, Mediterranean diet, and polyphenols: Evidence and perspectives. *Journal of Cellular Physiology*, **2019**, 234, 5807-5826	7	68

111	In vitro senescence of rat mesenchymal stem cells is accompanied by downregulation of stemness-related and DNA damage repair genes. *Stem Cells and Development*, **2009**, 18, 1033-42	4.4	64
110	Expression pattern of stemness-related genes in human endometrial and endometriotic tissues. *Molecular Medicine*, **2009**, 15, 392-401	6.2	63
109	Differentiation and apoptosis of neuroblastoma cells: role of N-myc gene product. *Journal of Cellular Biochemistry*, **1999**, 73, 97-105	4.7	63
108	Histone deacetylase inhibitors promote apoptosis and senescence in human mesenchymal stem cells. *Stem Cells and Development*, **2009**, 18, 573-81	4.4	55
107	Dose-dependent effects of R-sulforaphane isothiocyanate on the biology of human mesenchymal stem cells, at dietary amounts, it promotes cell proliferation and reduces senescence and apoptosis, while at anti-cancer drug doses, it has a cytotoxic effect. *Age*, **2012**, 34, 281-93		51
106	Silencing of RB1 but not of RB2/P130 induces cellular senescence and impairs the differentiation potential of human mesenchymal stem cells. *Cellular and Molecular Life Sciences*, **2013**, 70, 1637-51	10.3	49
105	Brg1 chromatin remodeling factor is involved in cell growth arrest, apoptosis and senescence of rat mesenchymal stem cells. *Journal of Cell Science*, **2007**, 120, 2904-11	5.3	47
104	Low concentrations of isothiocyanates protect mesenchymal stem cells from oxidative injuries, while high concentrations exacerbate DNA damage. *Apoptosis: an International Journal on Programmed Cell Death*, **2012**, 17, 964-74	5.4	46
103	Effects of TGF-beta and glucocorticoids on map kinase phosphorylation, IL-6/IL-11 secretion and cell proliferation in primary cultures of human lung fibroblasts. *Journal of Cellular Physiology*, **2007**, 210, 489-97	7	46
102	Apoptotic genes expression in the lumbar dorsal horn in a model neuropathic pain in rat. *NeuroReport*, **2002**, 13, 101-6	1.7	46
101	Genetic, epigenetic and stem cell alterations in endometriosis: new insights and potential therapeutic perspectives. *Clinical Science*, **2014**, 126, 123-38	6.5	45
100	High grade glioblastoma is associated with aberrant expression of ZFP57, a protein involved in gene imprinting, and of CPT1A and CPT1C that regulate fatty acid metabolism. *Cancer Biology and Therapy*, **2014**, 15, 735-41	4.6	45
99	Endothelin-1 induces proliferation of human lung fibroblasts and IL-11 secretion through an ET(A) receptor-dependent activation of MAP kinases. *Journal of Cellular Biochemistry*, **2005**, 96, 858-68	4.7	45
98	Early cell changes and TGF pathway alterations in the aortopathy associated with bicuspid aortic valve stenosis. *Clinical Science*, **2013**, 124, 97-108	6.5	44
97	The genotoxicity of PEI-based nanoparticles is reduced by acetylation of polyethylenimine amines in human primary cells. *Toxicology Letters*, **2013**, 218, 10-7	4.4	42
96	The BRG1 ATPase of chromatin remodeling complexes is involved in modulation of mesenchymal stem cell senescence through RB-P53 pathways. *Oncogene*, **2010**, 29, 5452-63	9.2	40
95	The Impact of Epigenetics on Mesenchymal Stem Cell Biology. *Journal of Cellular Physiology*, **2016**, 231, 2393-401	7	39
94	The secretome of MUSE cells contains factors that may play a role in regulation of stemness, apoptosis and immunomodulation. *Cell Cycle*, **2017**, 16, 33-44	4.7	38

93	Mesenchymal stem cells effectively reduce surgically induced stenosis in rat carotids. *Journal of Cellular Physiology*, **2008**, 217, 789-99	7	38
92	The bad and the good of mesenchymal stem cells in cancer: Boosters of tumor growth and vehicles for targeted delivery of anticancer agents. *World Journal of Stem Cells*, **2010**, 2, 5-12	5.6	37
91	Exercise increases the level of plasma orexin A in humans. *Journal of Basic and Clinical Physiology and Pharmacology*, **2016**, 27, 611-616	1.6	36
90	Stress and stem cells: adult Muse cells tolerate extensive genotoxic stimuli better than mesenchymal stromal cells. *Oncotarget*, **2018**, 9, 19328-19341	3.3	35
89	Partial silencing of methyl cytosine protein binding 2 (MECP2) in mesenchymal stem cells induces senescence with an increase in damaged DNA. *FASEB Journal*, **2010**, 24, 1593-603	0.9	34
88	Expression of stemness genes in primary breast cancer tissues: the role of SOX2 as a prognostic marker for detection of early recurrence. *Oncotarget*, **2014**, 5, 9678-88	3.3	34
87	Increased expression of IGF-binding protein-5 in Duchenne muscular dystrophy (DMD) fibroblasts correlates with the fibroblast-induced downregulation of DMD myoblast growth: an in vitro analysis. *Journal of Cellular Physiology*, **2000**, 185, 143-53	7	33
86	Defective growth in vitro of Duchenne muscular dystrophy myoblasts: The molecular and biochemical basis. *Journal of Cellular Biochemistry*, **2000**, 76, 118-132	4.7	32
85	Patients with bicuspid and tricuspid aortic valve exhibit distinct regional microrna signatures in mildly dilated ascending aorta. *Heart and Vessels*, **2017**, 32, 750-767	2.1	31
84	Reduced expression of MECP2 affects cell commitment and maintenance in neurons by triggering senescence: new perspective for Rett syndrome. *Molecular Biology of the Cell*, **2012**, 23, 1435-45	3.5	31
83	Sera of overweight people promote in vitro adipocyte differentiation of bone marrow stromal cells. *Stem Cell Research and Therapy*, **2014**, 5, 4	8.3	30
82	Mesenchymal stromal cells from amniotic fluid are less prone to senescence compared to those obtained from bone marrow: An in vitro study. *Journal of Cellular Physiology*, **2018**, 233, 8996-9006	7	29
81	Positively charged polymers modulate the fate of human mesenchymal stromal cells via ephrinB2/EphB4 signaling. *Stem Cell Research*, **2016**, 17, 248-255	1.6	27
80	Adult-onset brain tumors and neurodegeneration: Are polyphenols protective?. *Journal of Cellular Physiology*, **2018**, 233, 3955-3967	7	26
79	Impact of histone deacetylase inhibitors SAHA and MS-275 on DNA repair pathways in human mesenchymal stem cells. *Journal of Cellular Physiology*, **2010**, 225, 537-44	7	25
78	A case report: bone marrow mesenchymal stem cells from a Rett syndrome patient are prone to senescence and show a lower degree of apoptosis. *Journal of Cellular Biochemistry*, **2008**, 103, 1877-85	4.7	25
77	Enzymatic repair of selected cross-linked homoduplex molecules enhances nuclear gene rescue from Pompeii and Herculaneum remains. *Nucleic Acids Research*, **2002**, 30, e16	20.1	25
76	Misidentified Human Gene Functions with Mouse Models: The Case of the Retinoblastoma Gene Family in Senescence. *Neoplasia*, **2017**, 19, 781-790	6.4	24

75	Myeloma cells can corrupt senescent mesenchymal stromal cells and impair their anti-tumor activity. *Oncotarget*, **2015**, 6, 39482-92	3.3	24
74	Genes involved in regulation of stem cell properties: studies on their expression in a small cohort of neuroblastoma patients. *Cancer Biology and Therapy*, **2009**, 8, 1300-6	4.6	24
73	Concise Review: The Effect of Low-Dose Ionizing Radiation on Stem Cell Biology: A Contribution to Radiation Risk. *Stem Cells*, **2018**, 36, 1146-1153	5.8	23
72	Epigenetic regulation of TGF-β signalling in dilative aortopathy of the thoracic ascending aorta. *Clinical Science*, **2016**, 130, 1389-405	6.5	23
71	The switch from pRb/p105 to Rb2/p130 in DNA damage and cellular senescence. *Journal of Cellular Physiology*, **2012**, 227, 508-13	7	23
70	Dual role of parathyroid hormone in endothelial progenitor cells and marrow stromal mesenchymal stem cells. *Journal of Cellular Physiology*, **2010**, 222, 474-80	7	21
69	De-regulated expression of the BRG1 chromatin remodeling factor in bone marrow mesenchymal stromal cells induces senescence associated with the silencing of NANOG and changes in the levels of chromatin proteins. *Cell Cycle*, **2015**, 14, 1315-26	4.7	20
68	Novel potential targets for prevention of arterial restenosis: insights from the pre-clinical research. *Clinical Science*, **2014**, 127, 615-34	6.5	20
67	c-Myc antisense oligonucleotides preserve smooth muscle differentiation and reduce negative remodelling following rat carotid arteriotomy. *Journal of Vascular Research*, **2005**, 42, 214-25	1.9	20
66	Mesenchymal stromal cells and their secreted extracellular vesicles as therapeutic tools for COVID-19 pneumonia?. *Journal of Controlled Release*, **2020**, 325, 135-140	11.7	19
65	Stem cell therapy for arterial restenosis: potential parameters contributing to the success of bone marrow-derived mesenchymal stromal cells. *Cardiovascular Drugs and Therapy*, **2012**, 26, 9-21	3.9	19
64	Role of RB and RB2/P130 genes in marrow stromal stem cells plasticity. *Journal of Cellular Physiology*, **2004**, 200, 201-12	7	19
63	Long non-coding RNAs in regulation of adipogenesis and adipose tissue function. *ELife*, **2020**, 9,	8.9	19
62	Mesenchymal stromal cells having inactivated RB1 survive following low irradiation and accumulate damaged DNA: Hints for side effects following radiotherapy. *Cell Cycle*, **2017**, 16, 251-258	4.7	18
61	Silencing of RB1 and RB2/P130 during adipogenesis of bone marrow stromal cells results in dysregulated differentiation. *Cell Cycle*, **2014**, 13, 482-90	4.7	18
60	The senescence-associated secretory phenotype (SASP) from mesenchymal stromal cells impairs growth of immortalized prostate cells but has no effect on metastatic prostatic cancer cells. *Aging*, **2019**, 11, 5817-5828	5.6	17
59	Efficient cultivation of neural stem cells with controlled delivery of FGF-2. *Stem Cell Research*, **2013**, 10, 85-94	1.6	16
58	Hybrid complexes of high and low molecular weight hyaluronan delay in vitro replicative senescence of mesenchymal stromal cells: a pilot study for future therapeutic application. *Aging*, **2018**, 10, 1575-1585	5.6	16

57	Impact of lysosomal storage disorders on biology of mesenchymal stem cells: Evidences from in vitro silencing of glucocerebrosidase (GBA) and alpha-galactosidase A (GLA) enzymes. *Journal of Cellular Physiology*, **2017**, 232, 3454-3467	7	14
56	RB and RB2/P130 genes cooperate with extrinsic signals to promote differentiation of rat neural stem cells. *Molecular and Cellular Neurosciences*, **2007**, 34, 299-309	4.8	14
55	Neural stem cells from a mouse model of Rett syndrome are prone to senescence, show reduced capacity to cope with genotoxic stress, and are impaired in the differentiation process. *Experimental and Molecular Medicine*, **2018**, 50, 1	12.8	13
54	Controlled delivery of the heparan sulfate/FGF-2 complex by a polyelectrolyte scaffold promotes maximal hMSC proliferation and differentiation. *Journal of Cellular Biochemistry*, **2010**, 110, 903-9	4.7	13
53	RB2/p130 ectopic gene expression in neuroblastoma stem cells: evidence of cell-fate restriction and induction of differentiation. *Biochemical Journal*, **2001**, 360, 569-577	3.8	13
52	Irradiation of Mesenchymal Stromal Cells With Low and High Doses of Alpha Particles Induces Senescence and/or Apoptosis. *Journal of Cellular Biochemistry*, **2017**, 118, 2993-3002	4.7	12
51	Clinical Trials Based on Mesenchymal Stromal Cells are Exponentially Increasing: Where are We in Recent Years?. *Stem Cell Reviews and Reports*, **2021**, 1	7.3	12
50	Differential expression of proteins related to smooth muscle cells and myofibroblasts in human thoracic aortic aneurysm. *Histology and Histopathology*, **2013**, 28, 795-803	1.4	11
49	Alterations in the carnitine cycle in a mouse model of Rett syndrome. *Scientific Reports*, **2017**, 7, 41824	4.9	10
48	Novel insights in basic and applied stem cell therapy. *Journal of Cellular Physiology*, **2012**, 227, 2283-6	7	10
47	Local inhibition of ornithine decarboxylase reduces vascular stenosis in a murine model of carotid injury. *International Journal of Cardiology*, **2013**, 168, 3370-80	3.2	10
46	Molecular characterization of Italian rice cultivars. *European Food Research and Technology*, **2009**, 228, 875-881	3.4	10
45	Increase of circulating IGFBP-4 following genotoxic stress and its implication for senescence. *ELife*, **2020**, 9,	8.9	10
44	Meldonium improves Huntington's disease mitochondrial dysfunction by restoring peroxisome proliferator-activated receptor γ coactivator 1α expression. *Journal of Cellular Physiology*, **2019**, 234, 9233-9246	7	10
43	Senescence Phenomena and Metabolic Alteration in Mesenchymal Stromal Cells from a Mouse Model of Rett Syndrome. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	9
42	Pro-inflammatory cytokines activate hypoxia-inducible factor 3α via epigenetic changes in mesenchymal stromal/stem cells. *Scientific Reports*, **2018**, 8, 5842	4.9	9
41	Mutant huntingtin regulates EGF receptor fate in non-neuronal cells lacking wild-type protein. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2013**, 1832, 105-13	6.9	9
40	Chromatin modification and senescence. *Current Pharmaceutical Design*, **2012**, 18, 1686-93	3.3	9

39	Aging of the inceptive cellular population: the relationship between stem cells and aging. *Aging*, **2009**, 1, 372-81	5.6	9
38	Obesity is associated with senescence of mesenchymal stromal cells derived from bone marrow, subcutaneous and visceral fat of young mice. *Aging*, **2020**, 12, 12609-12621	5.6	9
37	Preamplification procedure for the analysis of ancient DNA samples. *Scientific World Journal, The*, **2013**, 2013, 734676	2.2	8
36	Stenosis progression after surgical injury in Milan hypertensive rat carotid arteries. *Cardiovascular Research*, **2003**, 60, 654-63	9.9	8
35	2000 Year-old ancient equids: an ancient-DNA lesson from pompeii remains. *The Journal of Experimental Zoology*, **2004**, 302, 550-6		8
34	Circulating factors present in the sera of naturally skinny people may influence cell commitment and adipocyte differentiation of mesenchymal stromal cells. *World Journal of Stem Cells*, **2019**, 11, 180-195	5.6	8
33	Micro-RNAs: Crossroads between the Exposure to Environmental Particulate Pollution and the Obstructive Pulmonary Disease. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
32	Different Stages of Quiescence, Senescence, and Cell Stress Identified by Molecular Algorithm Based on the Expression of Ki67, RPS6, and Beta-Galactosidase Activity. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	8
31	Stem Cell-Derived Exosomes in Autism Spectrum Disorder. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	7
30	Verification of Real-Time PCR Methods for Qualitative and Quantitative Testing of Genetically Modified Organisms. *Journal of Food Quality*, **2012**, 35, 442-447	2.7	7
29	Mesenchymal stem cells: a good candidate for restenosis therapy?. *Current Vascular Pharmacology*, **2009**, 7, 381-93	3.3	7
28	A preamplification approach to GMO detection in processed foods. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 2135-42	4.4	7
27	An effective method for adenoviral-mediated delivery of small interfering RNA into mesenchymal stem cells. *Journal of Cellular Biochemistry*, **2007**, 100, 293-302	4.7	7
26	Stem Cells and DNA Repair Capacity: Muse Stem Cells Are Among the Best Performers. *Advances in Experimental Medicine and Biology*, **2018**, 1103, 103-113	3.6	7
25	Ancient DNA and family relationships in a Pompeian house. *Annals of Human Genetics*, **2009**, 73, 429-37	2.2	6
24	DNA damage and repair in a model of rat vascular injury. *Clinical Science*, **2010**, 118, 473-85	6.5	6
23	Multiple hemoglobins in the electric ray: Torpedo marmorata. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1996**, 113, 645-651	2.3	6
22	A comparative study on normal and obese mice indicates that the secretome of mesenchymal stromal cells is influenced by tissue environment and physiopathological conditions. *Cell Communication and Signaling*, **2020**, 18, 118	7.5	6

21	RB2/p130 ectopic gene expression in neuroblastoma stem cells: evidence of cell-fate restriction and induction of differentiation. *Biochemical Journal*, **2001**, 360, 569-77	3.8	5
20	Polyphenols, the Healthy Brand of Olive Oil: Insights and Perspectives. *Nutrients*, **2021**, 13,	6.7	5
19	Endothelial cells from umbilical cord of women affected by gestational diabetes: A suitable in vitro model to study mechanisms of early vascular senescence in diabetes. *FASEB Journal*, **2021**, 35, e21662	0.9	5
18	G-CSF contributes at the healing of tunica media of arteriotomy-injured rat carotids by promoting differentiation of vascular smooth muscle cells. *Journal of Cellular Physiology*, **2016**, 231, 215-23	7	4
17	A new SCAR marker potentially useful to distinguish Italian cattle breeds. *Food Chemistry*, **2012**, 130, 172-176	8.5	3
16	In vivo effects of partial phosphorothioated AT1 receptor antisense oligonucleotides in spontaneously hypertensive and normotensive rats. *Life Sciences*, **2000**, 66, 2091-9	6.8	3
15	Proteomic and Biological Analysis of the Effects of Metformin Senomorphics on the Mesenchymal Stromal Cells. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 730813	5.8	3
14	Vitamin D Deficiency Induces Chronic Pain and Microglial Phenotypic Changes in Mice. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
13	Timely Supplementation of Hydrogels Containing Sulfated or Unsulfated Chondroitin and Hyaluronic Acid Affects Mesenchymal Stromal Cells Commitment Toward Chondrogenic Differentiation. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 641529	5.7	3
12	A rapid, safe, and quantitative in vitro assay for measurement of uracil-DNA glycosylase activity. *Journal of Molecular Medicine*, **2019**, 97, 991-1001	5.5	2
11	Injury to rat carotid arteries causes time-dependent changes in gene expression in contralateral uninjured arteries. *Clinical Science*, **2009**, 116, 125-36	6.5	2
10	Obesity induced by high-fat diet is associated with critical changes in biological and molecular functions of mesenchymal stromal cells present in visceral adipose tissue. *Aging*, **2020**, 12, 24894-24913	5.6	2
9	The Discovery of Highly Potent THP Derivatives as OCTN2 Inhibitors: From Structure-Based Virtual Screening to In Vivo Biological Activity. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
8	Why Do Muse Stem Cells Present an Enduring Stress Capacity? Hints from a Comparative Proteome Analysis. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
7	Clinical trials of a new class of therapeutic agents: antisense oligonucleotides. *Expert Opinion on Emerging Drugs*, **2001**, 6, 69-79		1
6	Short Introduction to the Cell Cycle **2010**, 3-14		1
5	PEA-OXA ameliorates allodynia, neuropsychiatric and adipose tissue remodeling induced by social isolation.. *Neuropharmacology*, **2022**, 108978	5.5	0
4	Stem cell research Italy: genesis of a society. *Stem Cells and Development*, **2010**, 19, 1649	4.4	

3	Stemness gene expression profile and correlation with clinicopathologic features (CPfs) in breast cancer (BC) patients (pts).. *Journal of Clinical Oncology*, **2014**, 32, 1064-1064	2.2
2	Defects in Chromatin Structure and Diseases **2014**, 143-153	
1	In Reply. *Stem Cells*, **2018**, 36, 1790	5.8