Javier Garcia-Castro

List of Publications by Year
in descending order

80 papers	4,966 citations	117571 34 h-index	91828 69 g-index
83 all docs	83 docs citations	83 times ranked	6884 citing authors

#	Article	IF	Citations
1	Spontaneous Human Adult Stem Cell Transformation. Cancer Research, 2005, 65, 3035-3039.	0.4	997
2	Adipose Tissue-Derived Mesenchymal Stem Cells Have In Vivo Immunosuppressive Properties Applicable for the Control of the Graft-Versus-Host Disease. Stem Cells, 2006, 24, 2582-2591.	1.4	649
3	Osteosarcoma: Cells-of-Origin, Cancer Stem Cells, and Targeted Therapies. Stem Cells International, 2016, 2016, 1-13.	1.2	164
4	Sarcoma treatment in the era of molecular medicine. EMBO Molecular Medicine, 2020, 12, e11131.	3.3	154
5	Molecular Characterization of Spontaneous Mesenchymal Stem Cell Transformation. PLoS ONE, 2008, 3, e1398.	1.1	147
6	Bone microenvironment signals in osteosarcoma development. Cellular and Molecular Life Sciences, 2015, 72, 3097-3113.	2.4	147
7	Mesenchymal stem cells and their use as cell replacement therapy and disease modelling tool. Journal of Cellular and Molecular Medicine, 2008, 12, 2552-2565.	1.6	129
8	Engineered LINE-1 retrotransposition in nondividing human neurons. Genome Research, 2017, 27, 335-348.	2.4	128
9	Treatment of metastatic neuroblastoma with systemic oncolytic virotherapy delivered by autologous mesenchymal stem cells: an exploratory study. Cancer Gene Therapy, 2010, 17, 476-483.	2.2	126
10	H3K4me1 marks DNA regions hypomethylated during aging in human stem and differentiated cells. Genome Research, 2015, 25, 27-40.	2.4	119
11	Bone marrow mesenchymal stem cells from infants with MLL-AF4+ acute leukemia harbor and express the MLL-AF4 fusion gene. Journal of Experimental Medicine, 2009, 206, 3131-3141.	4.2	109
12	Deficiency in p53 but not Retinoblastoma Induces the Transformation of Mesenchymal Stem Cells In vitro and Initiates Leiomyosarcoma In vivo. Cancer Research, 2010, 70, 4185-4194.	0.4	96
13	Loss of p53 Induces Tumorigenesis in p21-Deficient Mesenchymal Stem Cells. Neoplasia, 2009, 11, 397-IN9.	2.3	89
14	Bone Environment is Essential for Osteosarcoma Development from Transformed Mesenchymal Stem Cells. Stem Cells, 2014, 32, 1136-1148.	1.4	89
15	Human mesenchymal stem cell transformation is associated with a mesenchymalâ€“epithelial transition. Experimental Cell Research, 2008, 314, 691-698.	1.2	88
16	Dedifferentiated adult articular chondrocytes: a population of human multipotent primitive cells. Experimental Cell Research, 2004, 297, 313-328.	1.2	75
17	Cancer Genes Hypermethylated in Human Embryonic Stem Cells. PLoS ONE, 2008, 3, e3294.	1.1	75
18	Mesoporous silica nanoparticles grafted with a light-responsive protein shell for highly cytotoxic antitumoral therapy. Journal of Materials Chemistry B, 2015, 3, 5746-5752.	2.9	73

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19	Feeder-free maintenance of hESCs in mesenchymal stem cell-conditioned media: distinct requirements for TGF-Î² and IGF-II. Cell Research, 2009, 19, 698-709.	5.7	69
20	Physical activity during treatment in children with leukemia: a pilot study. Applied Physiology, Nutrition and Metabolism, 2006, 31, 407-413.	0.9	67
21	EARLY-PHASE ADAPTATIONS TO INTRAHOSPITAL TRAINING IN STRENGTH AND FUNCTIONAL MOBILITY OF CHILDREN WITH LEUKEMIA. Journal of Strength and Conditioning Research, 2007, 21, 173-177.	1.0	64
22	Influence of carrier cells on the clinical outcome of children with neuroblastoma treated with high dose of oncolytic adenovirus delivered in mesenchymal stem cells. Cancer Letters, 2016, 371, 161-170.	3.2	61
23	FUS-CHOP Fusion Protein Expression Coupled to p53 Deficiency Induces Liposarcoma in Mouse but Not in Human Adipose-Derived Mesenchymal Stem/Stromal Cells. Stem Cells, 2011, 29, 179-192.	1.4	57
24	First-in-Human, First-in-Child Trial of Autologous MSCs Carrying the Oncolytic Virus Icovir-5 in Patients with Advanced Tumors. Molecular Therapy, 2020, 28, 1033-1042.	3.7	57
25	Mobilisation of mesenchymal cells into blood in response to skeletal muscle injury. British Journal of Sports Medicine, 2006, 40, 719-722.	3.1	53
26	Mesenchymal stem cells regulate airway contractile tissue remodeling in murine experimental asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2014, 69, 730-740.	2.7	50
27	Mesenchymal stem cell carriers enhance antitumor efficacy of oncolytic adenoviruses in an immunocompetent mouse model. Oncotarget, 2017, 8, 45415-45431.	0.8	47
28	Tumor cells as cellular vehicles to deliver gene therapies to metastatic tumors. Cancer Gene Therapy, 2005, 12, 341-349.	2.2	46
29	Electron Microscopy Reveals the Presence of Viruses in Mouse Embryonic Fibroblasts But Neither in Human Embryonic Fibroblasts Nor in Human Mesenchymal Cells Used for hESC Maintenance: Toward an Implementation of Microbiological Quality Assurance Program in Stem Cell Banks. Cloning and Stem Cells, 2008, 10, 65-74.	2.6	41
30	Absence of hematopoiesis from transplanted olfactory bulb neural stem cells. European Journal of Neuroscience, 2004, 19, 505-512.	1.2	40
31	Clonal dynamics in osteosarcoma defined by RGB marking. Nature Communications, 2018, 9, 3994.	5.8	40
32	Mesenchymal Stromal Cells Derived from the Bone Marrow of Acute Lymphoblastic Leukemia Patients Show Altered BMP4 Production: Correlations with the Course of Disease. PLoS ONE, 2014, 9, e84496.	1.1	39
33	Aldh1 Expression and Activity Increase During Tumor Evolution in Sarcoma Cancer Stem Cell Populations. Scientific Reports, 2016, 6, 27878.	1.6	38
34	Enhanced Antitumor Efficacy of Oncolytic Adenovirusâ€“loaded Menstrual Bloodâ€“derived Mesenchymal Stem Cells in Combination with Peripheral Blood Mononuclear Cells. Molecular Cancer Therapeutics, 2019, 18, 127-138.	1.9	35
35	Age-associated hydroxymethylation in human bone-marrow mesenchymal stem cells. Journal of Translational Medicine, 2016, 14, 207.	1.8	33
36	Remission of Spontaneous Canine Tumors after Systemic Cellular Viroimmunotherapy. Cancer Research, 2018, 78, 4891-4901.	0.4	33

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37	Multipotent Mesenchymal Stromal Cells: Clinical Applications and Cancer Modeling. Advances in Experimental Medicine and Biology, 2012, 741, 187-205.	0.8	32
38	Patient-derived mesenchymal stem cells as delivery vehicles for oncolytic virotherapy: novel state-of-the-art technology. Oncolytic Virotherapy, 2015, 4, 149.	6.0	30
39	A Role for the CXCR3/CXCL10 Axis in Rasmussen Encephalitis. Pediatric Neurology, 2013, 49, 451-457.e1.	1.0	28
40	Allogeneic Adipose-Derived Mesenchymal Stem Cells (Horse Allo 20) for the Treatment of Osteoarthritis-Associated Lameness in Horses: Characterization, Safety, and Efficacy of Intra-Articular Treatment. Stem Cells and Development, 2018, 27, 1147-1160.	1.1	27
41	Intrahospital supervised exercise training: a complementary tool in the therapeutic armamentarium against childhood leukemia. Leukemia, 2005, 19, 1334-1337.	3.3	26
42	Human Menstrual Blood-Derived Mesenchymal Stem Cells as Potential Cell Carriers for Oncolytic Adenovirus. Stem Cells International, 2017, 2017, 1-10.	1.2	24
43	Selective Transduction of Murine Myelomonocytic Leukemia Cells (WEHI-3B) with Regular and RGD-Adenoviral Vectors. Molecular Therapy, 2001, 3, 70-77.	3.7	22
44	Nucleocytoplasmic shuttling of STK16 (PKL12), a Golgi-resident serine/threonine kinase involved in VEGF expression regulation. Experimental Cell Research, 2006, 312, 135-144.	1.2	21
45	Antitumor virotherapy using syngeneic or allogeneic mesenchymal stem cell carriers induces systemic immune response and intratumoral leukocyte infiltration in mice. Cancer Immunology, Immunotherapy, 2018, 67, 1589-1602.	2.0	21
46	SOX2 Expression and Transcriptional Activity Identifies a Subpopulation of Cancer Stem Cells in Sarcoma with Prognostic Implications. Cancers, 2020, 12, 964.	1.7	21
47	Mesenchymal Stem Cells are of Recipient Origin in Pediatric Transplantations Using Umbilical Cord Blood, Peripheral Blood, or Bone Marrow. Journal of Pediatric Hematology/Oncology, 2007, 29, 388-392.	0.3	17
48	Humoral responses to SARS-CoV-2 by healthy and sick dogs during the COVID-19 pandemic in Spain. Veterinary Research, 2021, 52, 22.	1.1	16
49	Combination immunotherapy using G-CSF and oncolytic virotherapy reduces tumor growth in osteosarcoma. , 2021, 9, e001703.		16
50	Combination of Single-Photon Emission Computed Tomography and Magnetic Resonance Imaging to Track ¹¹¹ In-Oxineâ€“Labeled Human Mesenchymal Stem Cells in Neuroblastoma-Bearing Mice. Molecular Imaging, 2014, 13, 7290.2014.00033.	0.7	15
51	Mesenchymal stem cells derived from low risk acute lymphoblastic leukemia patients promote NK cell antitumor activity. Cancer Letters, 2015, 363, 156-165.	3.2	15
52	Mesenchymal niches of bone marrow in cancer. Clinical and Translational Oncology, 2011, 13, 611-616.	1.2	14
53	Cellular Virotherapy Increases Tumor-Infiltrating Lymphocytes (TIL) and Decreases their PD-1+ Subsets in Mouse Immunocompetent Models. Cancers, 2020, 12, 1920.	1.7	14
54	c-Fos induces chondrogenic tumor formation in immortalized human mesenchymal progenitor cells. Scientific Reports, 2018, 8, 15615.	1.6	12

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55	First-in-child trial of celyvir (autologous mesenchymal stem cells carrying the oncolytic virus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Oncology, 2018, 36, 10543-10543.	0.8	12
56	Efficient and nontoxic adenoviral purging method for autologous transplantation in breast cancer patients. Cancer Research, 2002, 62, 5013-8.	0.4	12
57	Human embryonic stem cells: A potential system for modeling infant leukemia harboring MLL-AF4 fusion gene. Drug Discovery Today: Disease Models, 2007, 4, 53-60.	1.2	11
58	Role of Activator Protein-1 Complex on the Phenotype of Human Osteosarcomas Generated from Mesenchymal Stem Cells. Stem Cells, 2018, 36, 1487-1500.	1.4	11
59	In Vivo Ectopic Implantation Model to Assess Human Mesenchymal Progenitor Cell Potential. Stem Cell Reviews and Reports, 2013, 9, 833-846.	5.6	10
60	Hedgehog Pathway Inhibition Hampers Sphere and Holoclone Formation in Rhabdomyosarcoma. Stem Cells International, 2017, 2017, 1-14.	1.2	10
61	The Netrin-1-Neogenin-1 signaling axis controls neuroblastoma cell migration via integrin-Î²1 and focal adhesion kinase activation. Cell Adhesion and Migration, 2021, 15, 58-73.	1.1	10
62	Oncolytic virotherapy for neuroblastoma. Discovery Medicine, 2010, 10, 387-93.	0.5	10
63	Inducible model for Â-six-mediated site-specific recombination in mammalian cells. Nucleic Acids Research, 2006, 34, e1-e1.	6.5	9
64	Mobilisation of mesenchymal cells in cardiac patients: is intense exercise necessary?. British Journal of Sports Medicine, 2009, 43, 221-223.	3.1	8
65	Dopamine Mobilizes Mesenchymal Progenitor Cells Through D2-Class Receptors and Their PI3K/AKT Pathway. Stem Cells, 2014, 32, 2529-2538.	1.4	8
66	The Netrin-4/Laminin Î³1/Neogenin-1 complex mediates migration in SK-N-SH neuroblastoma cells. Cell Adhesion and Migration, 2019, 13, 33-40.	1.1	8
67	Purging of leukemia-contaminated bone marrow grafts using suicide adenoviral vectors: an in vivo murine experimental model. Gene Therapy, 2003, 10, 1328-1335.	2.3	7
68	In vivo site-specific recombination using the Î²-rec/sixsystem. BioTechniques, 2008, 45, 69-78.	0.8	7
69	Transplantation of syngenic bone marrow contaminated with NGFr-marked WEHI-3B cells: an improved model of leukemia relapse in mice. Leukemia, 2000, 14, 457-465.	3.3	6
70	Systemic Treatment of Immune-Mediated Keratoconjunctivitis Sicca with Allogeneic Stem Cells Improves the Schirmer Tear Test Score in a Canine Spontaneous Model of Disease. Journal of Clinical Medicine, 2021, 10, 5981.	1.0	6
71	Safety and Efficacy of an Oncolytic Adenovirus as an Immunotherapy for Canine Cancer Patients. Veterinary Sciences, 2022, 9, 327.	0.6	5
72	AKT and JUN are differentially activated in mesenchymal stem cells after infection with human and canine oncolytic adenoviruses. Cancer Gene Therapy, 2021, 28, 64-73.	2.2	4

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73	Enrichment of neural-related genes in human mesenchymal stem cells from neuroblastoma patients. International Journal of Molecular Medicine, 2012, 30, 365-373.	1.8	3
74	RGB-Marking to Identify Patterns of Selection and Neutral Evolution in Human Osteosarcoma Models. Cancers, 2021, 13, 2003.	1.7	3
75	In Vitro and In Vivo Immunomodulatory Effects of Mesenchymal Stem Cells from Adipose Tissue.. Blood, 2005, 106, 3098-3098.	0.6	3
76	SOX2 Expression and Transcriptional Activity Identifies a Subpopulation of Cancer Stem Cells in Sarcoma with Prognostic Implications. SSRN Electronic Journal, 0, , .	0.4	3
77	Prospects of Pluripotent and Adult Stem Cells for Rare Diseases. Advances in Experimental Medicine and Biology, 2017, 1031, 371-386.	0.8	2
78	Biodistribution Analysis of Oncolytic Adenoviruses in Canine Patient Necropsy Samples Treated with Cellular Virotherapy. Molecular Therapy - Oncolytics, 2020, 18, 525-534.	2.0	2
79	Cancer stem cells and clonal evolution in bone sarcomas. , 2022, , 371-391.		0
80	Cellular Heterogeneity and Cooperativity in Glioma Persister Cells Under Temozolomide Treatment. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	0