Antonio Bernad

List of Publications by Citations

95 papers	6,606 citations	36 h-index	81 g-index
99 ext. papers	7,166 ext. citations	7.5 avg, IF	5.11 L-index

#	Paper	IF	Citations
95	Unidirectional transfer of microRNA-loaded exosomes from T cells to antigen-presenting cells. *Nature Communications*, **2011**, 2, 282	17.4	1246
94	Spontaneous human adult stem cell transformation. *Cancer Research*, **2005**, 65, 3035-9	10.1	899
93	A conserved 3'----5' exonuclease active site in prokaryotic and eukaryotic DNA polymerases. *Cell*, **1989**, 59, 219-28	56.2	414
92	DNA polymerase lambda (Pol lambda), a novel eukaryotic DNA polymerase with a potential role in meiosis. *Journal of Molecular Biology*, **2000**, 301, 851-67	6.5	244
91	The transcription factor SNAIL represses vitamin D receptor expression and responsiveness in human colon cancer. *Nature Medicine*, **2004**, 10, 917-9	50.5	226
90	A general structure for DNA-dependent DNA polymerases. *Gene*, **1991**, 100, 27-38	3.8	219
89	Interleukin-6 is required in vivo for the regulation of stem cells and committed progenitors of the hematopoietic system. *Immunity*, **1994**, 1, 725-31	32.3	184
88	Gold glyconanoparticles as new tools in antiadhesive therapy. *ChemBioChem*, **2004**, 5, 291-7	3.8	151
87	Molecular characterization of spontaneous mesenchymal stem cell transformation. *PLoS ONE*, **2008**, 3, e1398	3.7	131
86	Long-term repopulating ability of telomerase-deficient murine hematopoietic stem cells. *Blood*, **2002**, 99, 2767-75	2.2	127
85	Acellular human heart matrix: A critical step toward whole heart grafts. *Biomaterials*, **2015**, 61, 279-89	15.6	124
84	Cell senescence abrogates the therapeutic potential of human mesenchymal stem cells in the lethal endotoxemia model. *Stem Cells*, **2014**, 32, 1865-77	5.8	119
83	miR-133a enhances the protective capacity of cardiac progenitors cells after myocardial infarction. *Stem Cell Reports*, **2014**, 3, 1029-42	8	96
82	Inhibition of programmed cell death impairs in vitro vascular-like structure formation and reduces in vivo angiogenesis. *FASEB Journal*, **2002**, 16, 833-41	0.9	96
81	Lentiviral vector-mediated gene transfer in T cells from Wiskott-Aldrich syndrome patients leads to functional correction. *Molecular Therapy*, **2004**, 10, 903-15	11.7	92
80	Retraction: Spontaneous human adult stem cell transformation. *Cancer Research*, **2010**, 70, 6682	10.1	90
79	Evidence favouring the hypothesis of a conserved 3'-5' exonuclease active site in DNA-dependent DNA polymerases. *Gene*, **1992**, 112, 139-44	3.8	90

78	A preclinical model for the analysis of genetically modified human skin in vivo. *Human Gene Therapy* , **2002**, 13, 959-68	4.8	85
77	Glycodendritic structures based on Boltorn hyperbranched polymers and their interactions with Lens culinaris lectin. *Bioconjugate Chemistry*, **2003**, 14, 817-23	6.3	77
76	Human mesenchymal stem cell transformation is associated with a mesenchymal-epithelial transition. *Experimental Cell Research*, **2008**, 314, 691-8	4.2	76
75	Replication of phage phi 29 DNA in vitro: role of the viral protein p6 in initiation and elongation. *Nucleic Acids Research*, **1986**, 14, 4923-37	20.1	74
74	A role for chemokine receptor transactivation in growth factor signaling. *EMBO Reports*, **2001**, 2, 151-6	6.5	73
73	Exercise triggers ARVC phenotype in mice expressing a disease-causing mutated version of human plakophilin-2. *Journal of the American College of Cardiology*, **2015**, 65, 1438-50	15.1	71
72	Dedifferentiated adult articular chondrocytes: a population of human multipotent primitive cells. *Experimental Cell Research*, **2004**, 297, 313-28	4.2	70
71	A cutaneous gene therapy approach to human leptin deficiencies: correction of the murine ob/ob phenotype using leptin-targeted keratinocyte grafts. *FASEB Journal*, **2001**, 15, 1529-38	0.9	62
70	Age-dependent depletion of human skin-derived progenitor cells. *Stem Cells*, **2009**, 27, 1164-72	5.8	61
69	Interleukin-6 deficiency affects bone marrow stromal precursors, resulting in defective hematopoietic support. *Blood*, **2004**, 103, 3349-54	2.2	60
68	miR-335 correlates with senescence/aging in human mesenchymal stem cells and inhibits their therapeutic actions through inhibition of AP-1 activity. *Stem Cells*, **2014**, 32, 2229-44	5.8	52
67	Generation of GABAergic and dopaminergic interneurons from endogenous embryonic olfactory bulb precursor cells. *Development (Cambridge)*, **2006**, 133, 4367-79	6.6	52
66	DNA polymerase mu, a candidate hypermutase?. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2001**, 356, 99-109	5.8	52
65	miR-208b upregulation interferes with calcium handling in HL-1 atrial myocytes: Implications in human chronic atrial fibrillation. *Journal of Molecular and Cellular Cardiology*, **2016**, 99, 162-173	5.8	51
64	Selective inactivation of p27(Kip1) in hematopoietic progenitor cells increases neointimal macrophage proliferation and accelerates atherosclerosis. *Blood*, **2004**, 103, 158-61	2.2	50
63	Increase in mitochondrial biogenesis, oxidative stress, and glycolysis in murine lymphomas. *Free Radical Biology and Medicine*, **2009**, 46, 387-96	7.8	44
62	Absence of hematopoiesis from transplanted olfactory bulb neural stem cells. *European Journal of Neuroscience*, **2004**, 19, 505-12	3.5	39
61	Single-step, multiple retroviral transduction of human T cells. *Journal of Gene Medicine*, **2002**, 4, 27-37	3.5	38

60	Metal activation of synthetic and degradative activities of phi 29 DNA polymerase, a model enzyme for protein-primed DNA replication. *Biochemistry*, **1992**, 31, 350-9	3.2	37
59	Rationale and Design of a Clinical Trial to Evaluate the Safety and Efficacy of Intracoronary Infusion of Allogeneic Human Cardiac Stem Cells in Patients With Acute Myocardial Infarction and Left Ventricular Dysfunction: The Randomized Multicenter Double-Blind Controlled CAREMI Trial (Cardiac Stem Cells in Patients With Acute Myocardial Infarction). *Circulation Research*, **2017**, 121, 71-80	15.7	32
58	Combined administration of mesenchymal stem cells overexpressing IGF-1 and HGF enhances neovascularization but moderately improves cardiac regeneration in a porcine model. *Stem Cell Research and Therapy*, **2016**, 7, 94	8.3	32
57	Overexpression of human DNA polymerase mu (Pol mu) in a Burkitt's lymphoma cell line affects the somatic hypermutation rate. *Nucleic Acids Research*, **2004**, 32, 5861-73	20.1	31
56	Altered hematopoiesis in mice lacking DNA polymerase mu is due to inefficient double-strand break repair. *PLoS Genetics*, **2009**, 5, e1000389	6	30
55	Structure of the human protein kinase MPSK1 reveals an atypical activation loop architecture. *Structure*, **2008**, 16, 115-24	5.2	30
54	The prokaryotic beta-recombinase catalyzes site-specific recombination in mammalian cells. *Journal of Biological Chemistry*, **1999**, 274, 6634-40	5.4	30
53	Cardiac Bmi1(+) cells contribute to myocardial renewal in the murine adult heart. *Stem Cell Research and Therapy*, **2015**, 6, 205	8.3	29
52	Ex vivo expansion and selection of retrovirally transduced bone marrow: an efficient methodology for gene-transfer to murine lympho-haemopoietic stem cells. *British Journal of Haematology*, **1994**, 87, 6-17	4.5	29
51	CXCL6 is an important paracrine factor in the pro-angiogenic human cardiac progenitor-like cell secretome. *Scientific Reports*, **2017**, 7, 12490	4.9	28
50	A role for DNA polymerase mu in the emerging DJH rearrangements of the postgastrulation mouse embryo. *Molecular and Cellular Biology*, **2009**, 29, 1266-75	4.8	28
49	An optimized amphiphilic cationic peptide as an efficient non-viral gene delivery vector. *Journal of Gene Medicine*, **2000**, 2, 455-64	3.5	28
48	Bmi1 (+) cardiac progenitor cells contribute to myocardial repair following acute injury. *Stem Cell Research and Therapy*, **2016**, 7, 100	8.3	28
47	Site-directed mutagenesis of the YCDTDS amino acid motif of the phi 29 DNA polymerase. *Gene*, **1990**, 94, 45-51	3.8	27
46	Complement anaphylatoxins C3a and C5a induce a failing regenerative program in cardiac resident cells. Evidence of a role for cardiac resident stem cells other than cardiomyocyte renewal. *SpringerPlus*, **2012**, 1, 63		24
45	SOCS up-regulation mobilizes autologous stem cells through CXCR4 blockade. *Blood*, **2006**, 108, 3928-37	2.2	24
44	A hammerhead ribozyme targeted to the human chemokine receptor CCR5. *Biochemical and Biophysical Research Communications*, **1998**, 251, 592-6	3.4	24
43	Pivotal role for skin transendothelial radio-resistant anti-inflammatory macrophages in tissue repair. *ELife*, **2016**, 5,	8.9	24

42	Redox-dependent BMI1 activity drives in vivo adult cardiac progenitor cell differentiation. *Cell Death and Differentiation*, **2018**, 25, 809-822	12.7	23
41	Functional interaction between the Ser/Thr kinase PKL12 and N-acetylglucosamine kinase, a prominent enzyme implicated in the salvage pathway for GlcNAc recycling. *Journal of Biological Chemistry*, **2002**, 277, 6333-43	5.4	22
40	Identification and Characterization of the Dermal Panniculus Carnosus Muscle Stem Cells. *Stem Cell Reports*, **2016**, 7, 411-424	8	22
39	Novel interfering bifunctional molecules against the CCR5 coreceptor are efficient inhibitors of HIV-1 infection. *Molecular Therapy*, **2003**, 8, 475-84	11.7	21
38	Transplanted long-term cultured pre-BI cells expressing calpastatin are resistant to B cell receptor-induced apoptosis. *Journal of Experimental Medicine*, **2001**, 194, 247-54	16.6	21
37	New insights into host factor requirements for prokaryotic beta-recombinase-mediated reactions in mammalian cells. *Journal of Biological Chemistry*, **2001**, 276, 16257-64	5.4	21
36	Cloning, expression analysis, and functional characterization of PKL12, a member of a new subfamily of ser/thr kinases. *Biochemical and Biophysical Research Communications*, **1998**, 249, 380-4	3.4	21
35	Characteristics of adult stem cells. *Advances in Experimental Medicine and Biology*, **2012**, 741, 103-20	3.6	20
34	A comparison of targeting performance of oncoretroviral versus lentiviral vectors on human keratinocytes. *Human Gene Therapy*, **2003**, 14, 1579-85	4.8	20
33	Nucleocytoplasmic shuttling of STK16 (PKL12), a Golgi-resident serine/threonine kinase involved in VEGF expression regulation. *Experimental Cell Research*, **2006**, 312, 135-44	4.2	18
32	miRNA-1 and miRNA-133a are involved in early commitment of pluripotent stem cells and demonstrate antagonistic roles in the regulation of cardiac differentiation. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 787-799	4.4	17
31	Serine/threonine kinase 16 and MAL2 regulate constitutive secretion of soluble cargo in hepatic cells. *Biochemical Journal*, **2014**, 463, 201-13	3.8	17
30	Deficient p27 phosphorylation at serine 10 increases macrophage foam cell formation and aggravates atherosclerosis through a proliferation-independent mechanism. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 2455-63	9.4	17
29	Dose-dependent improvement of cardiac function in a swine model of acute myocardial infarction after intracoronary administration of allogeneic heart-derived cells. *Stem Cell Research and Therapy*, **2019**, 10, 152	8.3	16
28	Polymerase mu is up-regulated during the T cell-dependent immune response and its deficiency alters developmental dynamics of spleen centroblasts. *European Journal of Immunology*, **2005**, 35, 1601-11	6.1	16
27	Highly efficient lentiviral-mediated human cytokine transgenesis on the NOD/scid background. *Blood*, **2004**, 103, 580-2	2.2	14
26	Wiskott-Aldrich syndrome protein is needed for vaccinia virus pathogenesis. *Journal of Virology*, **2005**, 79, 2133-40	6.6	14
25	Exploring analytical proteomics platforms toward the definition of human cardiac stem cells receptome. *Proteomics*, **2015**, 15, 1332-7	4.8	13

24	Podocalyxin-like protein 1 is a relevant marker for human c-kit(pos) cardiac stem cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2016**, 10, 580-90	4.4	13
23	Increased learning and brain long-term potentiation in aged mice lacking DNA polymerase □*PLoS ONE*, **2013**, 8, e53243	3.7	13
22	Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. *Scientific Reports*, **2019**, 9, 4647	4.9	11
21	High transfection efficiency of human umbilical vein endothelial cells using an optimized calcium phosphate method. *Analytical Biochemistry*, **2001**, 296, 143-7	3.1	11
20	Efficient cell reprogramming using bioengineered surfaces. *Advanced Healthcare Materials*, **2012**, 1, 177-82	12.1	8
19	Inducible model for beta-six-mediated site-specific recombination in mammalian cells. *Nucleic Acids Research*, **2006**, 34, e1	20.1	8
18	In vivo site-specific recombination using the beta-rec/six system. *BioTechniques*, **2008**, 45, 69-78	2.5	7
17	Bmi1-Progenitor Cell Ablation Impairs the Angiogenic Response to Myocardial Infarction. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 2160-2173	9.4	7
16	Single-step, multiple retroviral transduction of human T cells. *Journal of Gene Medicine*, **2002**, 4, 27-37	3.5	7
15	Modification of the amino and hydroxyl groups of lysozyme with carboxylic acid anhydrides: a comparative study. *BBA - Proteins and Proteomics*, **1986**, 873, 350-355		6
14	Pol□deficiency increases resistance to oxidative damage and delays liver aging. *PLoS ONE*, **2014**, 9, e93074	3.7	6
13	Age-related oxidative stress confines damage-responsive Bmi1 cells to perivascular regions in the murine adult heart. *Redox Biology*, **2019**, 22, 101156	11.3	4
12	ZAP-70 upregulation in transformed B cells after early pre-BI cell transplant into NOD/SCID mice. *Oncogene*, **2005**, 24, 5119-24	9.2	4
11	Deregulation of the imprinted DLK1-DIO3 locus ncRNAs is associated with replicative senescence of human adipose-derived stem cells. *PLoS ONE*, **2018**, 13, e0206534	3.7	4
10	Increased neuronal death and disturbed axonal growth in the Pol□deficient mouse embryonic retina. *Scientific Reports*, **2016**, 6, 25928	4.9	3
9	A general structure for DNA-dependent DNA polymerases. *Gene*, **1991**, 108, 165	3.8	3
8	Pol□deficiency induces moderate shortening of P53 mouse lifespan and modifies tumor spectrum. *DNA Repair*, **2017**, 54, 40-45	4.3	2
7	Plasmatic Membrane Expression of Adhesion Molecules in Human Cardiac Progenitor/Stem Cells Might Explain Their Superior Cell Engraftment after Cell Transplantation. *Stem Cells International*, **2020**, 2020, 8872009	5	1

List of Publications

6	Bmi1-mediated epigenetic signature acts as a critical barrier for direct reprogramming to mature cardiomyocytes. *Stem Cell Investigation*, **2016**, 3, 28	5.1	0
5	Erratum to Lentiviral Vector-Mediated Gene Transfer in T Cells from Wiskott-Aldrich Syndrome Patients Leads to Functional Correction *Molecular Therapy*, **2005**, 11, 492	11.7	
4	Comparative proteomic analysis of nuclear and cytoplasmic compartments in human cardiac progenitor cells.. *Scientific Reports*, **2022**, 12, 146	4.9	
3	Oxidative Stress as a Critical Determinant of Adult Cardiac Progenitor Cell-Fate Decisions **2019**, 339-363		
2	Use of retroviral vectors in lymphohemato-poietic lineage analysis **1996**, 1127-1142		
1	The Vascular Niche for Adult Cardiac Progenitor Cells. *Antioxidants*, **2022**, 11, 882	7.1	