

Antonio Bernad

List of Publications by Year in descending order

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96
papers

7,672
citations

87843

38
h-index

51562

86
g-index

99
all docs

99
docs citations

99
times ranked

11068
citing authors

#	ARTICLE	IF	CITATIONS
1	Unidirectional transfer of microRNA-loaded exosomes from T cells to antigen-presenting cells. <i>Nature Communications</i> , 2011, 2, 282.	5.8	1,525
2	Spontaneous Human Adult Stem Cell Transformation. <i>Cancer Research</i> , 2005, 65, 3035-3039.	0.4	997
3	A conserved 3'5' exonuclease active site in prokaryotic and eukaryotic DNA polymerases. <i>Cell</i> , 1989, 59, 219-228.	13.5	462
4	The transcription factor SNAIL represses vitamin D receptor expression and responsiveness in human colon cancer. <i>Nature Medicine</i> , 2004, 10, 917-919.	15.2	269
5	DNA polymerase lambda (Pol λ), a novel eukaryotic DNA polymerase with a potential role in meiosis 1 Edited by M. Yaniv. <i>Journal of Molecular Biology</i> , 2000, 301, 851-867.	2.0	268
6	A general structure for DNA-dependent DNA polymerases. <i>Gene</i> , 1991, 100, 27-38.	1.0	242
7	Interleukin-6 is required in vivo for the regulation of stem cells and committed progenitors of the hematopoietic system. <i>Immunity</i> , 1994, 1, 725-731.	6.6	209
8	Gold Glyconanoparticles as New Tools in Antiadhesive Therapy. <i>ChemBioChem</i> , 2004, 5, 291-297.	1.3	160
9	Acellular human heart matrix: A critical step toward whole heart grafts. <i>Biomaterials</i> , 2015, 61, 279-289.	5.7	149
10	Molecular Characterization of Spontaneous Mesenchymal Stem Cell Transformation. <i>PLoS ONE</i> , 2008, 3, e1398.	1.1	147
11	Cell Senescence Abrogates the Therapeutic Potential of Human Mesenchymal Stem Cells in the Lethal Endotoxemia Model. <i>Stem Cells</i> , 2014, 32, 1865-1877.	1.4	141
12	Long-term repopulating ability of telomerase-deficient murine hematopoietic stem cells. <i>Blood</i> , 2002, 99, 2767-2775.	0.6	139
13	miR-133a Enhances the Protective Capacity of Cardiac Progenitors Cells after Myocardial Infarction. <i>Stem Cell Reports</i> , 2014, 3, 1029-1042.	2.3	118
14	Lentiviral Vector-Mediated Gene Transfer in T Cells from Wiskott-Aldrich Syndrome Patients Leads to Functional Correction. <i>Molecular Therapy</i> , 2004, 10, 903-915.	3.7	106
15	Exercise Triggers ARVC Phenotype in Mice Expressing a Disease-Causing Mutated Version of Human Plakophilin-2. <i>Journal of the American College of Cardiology</i> , 2015, 65, 1438-1450.	1.2	104
16	Evidence favouring the hypothesis of a conserved 3'5' exonuclease active site in DNA-dependent DNA polymerases. <i>Gene</i> , 1992, 112, 139-144.	1.0	102
17	Inhibition of programmed cell death impairs in vitro vascular-like structure formation and reduces in vivo angiogenesis. <i>FASEB Journal</i> , 2002, 16, 833-841.	0.2	102
18	A Preclinical Model for the Analysis of Genetically Modified Human Skin In Vivo. <i>Human Gene Therapy</i> , 2002, 13, 959-968.	1.4	91

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19	Human mesenchymal stem cell transformation is associated with a mesenchymalâ€“epithelial transition. <i>Experimental Cell Research</i> , 2008, 314, 691-698.	1.2	88
20	Replication of phage Î†29 DNA in vitro: role of the viral protein p6 in initiation and elongation. <i>Nucleic Acids Research</i> , 1986, 14, 4923-4937.	6.5	82
21	Glycodendritic Structures Based on Boltorn Hyperbranched Polymers and Their Interactions with Lens culinaris Lectin. <i>Bioconjugate Chemistry</i> , 2003, 14, 817-823.	1.8	82
22	A role for chemokine receptor transactivation in growth factor signaling. <i>EMBO Reports</i> , 2001, 2, 151-156.	2.0	81
23	Dedifferentiated adult articular chondrocytes: a population of human multipotent primitive cells. <i>Experimental Cell Research</i> , 2004, 297, 313-328.	1.2	75
24	Age-Dependent Depletion of Human Skin-Derived Progenitor Cells. <i>Stem Cells</i> , 2009, 27, 1164-1172.	1.4	70
25	A cutaneous gene therapy approach to human leptin deficiencies: correction of the murine ob/ob phenotype using leptinâ€“targeted keratinocyte grafts. <i>FASEB Journal</i> , 2001, 15, 1529-1538.	0.2	68
26	miR-335 Correlates with Senescence/Aging in Human Mesenchymal Stem Cells and Inhibits Their Therapeutic Actions Through Inhibition of AP-1 Activity. <i>Stem Cells</i> , 2014, 32, 2229-2244.	1.4	65
27	Interleukin-6 deficiency affects bone marrow stromal precursors, resulting in defective hematopoietic support. <i>Blood</i> , 2004, 103, 3349-3354.	0.6	64
28	miR-208b upregulation interferes with calcium handling in HL-1 atrial myocytes: Implications in human chronic atrial fibrillation. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 99, 162-173.	0.9	64
29	DNA polymerase mu, a candidate hypermutase?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 99-109.	1.8	57
30	Generation of GABAergic and dopaminergic interneurons from endogenous embryonic olfactory bulb precursor cells. <i>Development (Cambridge)</i> , 2006, 133, 4367-4379.	1.2	57
31	Selective inactivation of p27Kip1 in hematopoietic progenitor cells increases neointimal macrophage proliferation and accelerates atherosclerosis. <i>Blood</i> , 2004, 103, 158-161.	0.6	52
32	Increase in mitochondrial biogenesis, oxidative stress, and glycolysis in murine lymphomas. <i>Free Radical Biology and Medicine</i> , 2009, 46, 387-396.	1.3	48
33	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. <i>Circulation Research</i> , 2017, 121, 71-80.	2.0	46
34	Single-step, multiple retroviral transduction of human T cells. <i>Journal of Gene Medicine</i> , 2002, 4, 27-37.	1.4	42
35	Combined administration of mesenchymal stem cells overexpressing IGF-1 and HGF enhances neovascularization but moderately improves cardiac regeneration in a porcine model. <i>Stem Cell Research and Therapy</i> , 2016, 7, 94.	2.4	42
36	Metal activation of synthetic and degradative activities of Î†29 DNA polymerase, a model enzyme for protein-primed DNA replication. <i>Biochemistry</i> , 1992, 31, 350-359.	1.2	40

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37	Absence of hematopoiesis from transplanted olfactory bulb neural stem cells. <i>European Journal of Neuroscience</i> , 2004, 19, 505-512.	1.2	40
38	CXCL6 is an important paracrine factor in the pro-angiogenic human cardiac progenitor-like cell secretome. <i>Scientific Reports</i> , 2017, 7, 12490.	1.6	39
39	Structure of the Human Protein Kinase MPSK1 Reveals an Atypical Activation Loop Architecture. <i>Structure</i> , 2008, 16, 115-124.	1.6	38
40	Overexpression of human DNA polymerase β (Pol β) in a Burkitt's lymphoma cell line affects the somatic hypermutation rate. <i>Nucleic Acids Research</i> , 2004, 32, 5861-5873.	6.5	35
41	Cardiac Bmi1 + cells contribute to myocardial renewal in the murine adult heart. <i>Stem Cell Research and Therapy</i> , 2015, 6, 205.	2.4	35
42	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. <i>SpringerPlus</i> , 2012, 1, 63.	1.2	34
43	Pivotal role for skin transendothelial radio-resistant anti-inflammatory macrophages in tissue repair. <i>ELife</i> , 2016, 5, .	2.8	34
44	Ex vivo expansion and selection of retrovirally transduced bone marrow: an efficient methodology for gene-transfer to murine lympho-haemopoietic stem cells. <i>British Journal of Haematology</i> , 1994, 87, 6-17.	1.2	33
45	The Prokaryotic λ -Recombinase Catalyzes Site-specific Recombination in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 6634-6640.	1.6	33
46	Altered Hematopoiesis in Mice Lacking DNA Polymerase β Is Due to Inefficient Double-Strand Break Repair. <i>PLoS Genetics</i> , 2009, 5, e1000389.	1.5	33
47	Bmi1 + cardiac progenitor cells contribute to myocardial repair following acute injury. <i>Stem Cell Research and Therapy</i> , 2016, 7, 100.	2.4	33
48	Site-directed mutagenesis of the YCDTDS amino acid motif of the β DNA polymerase. <i>Gene</i> , 1990, 94, 45-51.	1.0	32
49	An optimized amphiphilic cationic peptide as an efficient non-viral gene delivery vector. <i>Journal of Gene Medicine</i> , 2000, 2, 455-464.	1.4	32
50	A Role for DNA Polymerase β in the Emerging DJ _H Rearrangements of the Postgastrulation Mouse Embryo. <i>Molecular and Cellular Biology</i> , 2009, 29, 1266-1275.	1.1	31
51	Identification and Characterization of the Dermal Panniculus Carnosus Muscle Stem Cells. <i>Stem Cell Reports</i> , 2016, 7, 411-424.	2.3	30
52	Cloning, Expression Analysis, and Functional Characterization of PKL12, a Member of a New Subfamily of ser/thr Kinases. <i>Biochemical and Biophysical Research Communications</i> , 1998, 249, 380-384.	1.0	28
53	Characteristics of Adult Stem Cells. <i>Advances in Experimental Medicine and Biology</i> , 2012, 741, 103-120.	0.8	28
54	miRNA-1 and miRNA-133a are involved in early commitment of pluripotent stem cells and demonstrate antagonistic roles in the regulation of cardiac differentiation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 787-799.	1.3	28

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55	Dose-dependent improvement of cardiac function in a swine model of acute myocardial infarction after intracoronary administration of allogeneic heart-derived cells. <i>Stem Cell Research and Therapy</i> , 2019, 10, 152.	2.4	27
56	A Hammerhead Ribozyme Targeted to the Human Chemokine Receptor CCR5. <i>Biochemical and Biophysical Research Communications</i> , 1998, 251, 592-596.	1.0	26
57	Functional Interaction between the Ser/Thr Kinase PKL12 and N-Acetylglucosamine Kinase, a Prominent Enzyme Implicated in the Salvage Pathway for GlcNAc Recycling. <i>Journal of Biological Chemistry</i> , 2002, 277, 6333-6343.	1.6	26
58	Redox-dependent BMI1 activity drives in vivo adult cardiac progenitor cell differentiation. <i>Cell Death and Differentiation</i> , 2018, 25, 809-822.	5.0	26
59	Novel interfering bifunctional molecules against the CCR5 coreceptor are efficient inhibitors of HIV-1 infection. <i>Molecular Therapy</i> , 2003, 8, 475-484.	3.7	25
60	SOCS up-regulation mobilizes autologous stem cells through CXCR4 blockade. <i>Blood</i> , 2006, 108, 3928-3937.	0.6	24
61	Transplanted Long-Term Cultured Pre-Bi Cells Expressing Calpastatin Are Resistant to B Cell Receptor-Induced Apoptosis. <i>Journal of Experimental Medicine</i> , 2001, 194, 247-254.	4.2	23
62	Serine/threonine kinase 16 and MAL2 regulate constitutive secretion of soluble cargo in hepatic cells. <i>Biochemical Journal</i> , 2014, 463, 201-213.	1.7	22
63	New Insights into Host Factor Requirements for Prokaryotic ϕ -Recombinase-mediated Reactions in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 16257-16264.	1.6	21
64	A Comparison of Targeting Performance of Oncoretroviral Versus Lentiviral Vectors on Human Keratinocytes. <i>Human Gene Therapy</i> , 2003, 14, 1579-1585.	1.4	21
65	Highly efficient lentiviral-mediated human cytokine transgenesis on the NOD/scid background. <i>Blood</i> , 2004, 103, 580-582.	0.6	21
66	Nucleocytoplasmic shuttling of STK16 (PKL12), a Golgi-resident serine/threonine kinase involved in VEGF expression regulation. <i>Experimental Cell Research</i> , 2006, 312, 135-144.	1.2	21
67	Polymerase β is up-regulated during the T _H 1 cell-dependent immune response and its deficiency alters developmental dynamics of spleen centroblasts. <i>European Journal of Immunology</i> , 2005, 35, 1601-1611.	1.6	18
68	Deficient p27 Phosphorylation at Serine 10 Increases Macrophage Foam Cell Formation and Aggravates Atherosclerosis Through a Proliferation-Independent Mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2455-2463.	1.1	18
69	Podocalyxin-like protein 1 is a relevant marker for human c-kit ^{pos} cardiac stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016, 10, 580-590.	1.3	17
70	Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. <i>Scientific Reports</i> , 2019, 9, 4647.	1.6	17
71	Increased Learning and Brain Long-Term Potentiation in Aged Mice Lacking DNA Polymerase β . <i>PLoS ONE</i> , 2013, 8, e53243.	1.1	17
72	Wiskott-Aldrich Syndrome Protein Is Needed for Vaccinia Virus Pathogenesis. <i>Journal of Virology</i> , 2005, 79, 2133-2140.	1.5	15

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73	Exploring analytical proteomics platforms toward the definition of human cardiac stem cells receptome. <i>Proteomics</i> , 2015, 15, 1332-1337.	1.3	14
74	High Transfection Efficiency of Human Umbilical Vein Endothelial Cells Using an Optimized Calcium Phosphate Method. <i>Analytical Biochemistry</i> , 2001, 296, 143-147.	1.1	12
75	Bmi1-Progenitor Cell Ablation Impairs the Angiogenic Response to Myocardial Infarction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 2160-2173.	1.1	11
76	Modification of the amino and hydroxyl groups of lysozyme with carboxylic acid anhydrides: a comparative study. <i>BBA - Proteins and Proteomics</i> , 1986, 873, 350-355.	2.1	10
77	Inducible model for λ -six-mediated site-specific recombination in mammalian cells. <i>Nucleic Acids Research</i> , 2006, 34, e1-e1.	6.5	9
78	Efficient Cell Reprogramming Using Bioengineered Surfaces. <i>Advanced Healthcare Materials</i> , 2012, 1, 177-182.	3.9	9
79	Deregulation of the imprinted DLK1-DIO3 locus ncRNAs is associated with replicative senescence of human adipose-derived stem cells. <i>PLoS ONE</i> , 2018, 13, e0206534.	1.1	9
80	Intracoronary Delivery of Porcine Cardiac Progenitor Cells Overexpressing IGF-1 and HGF in a Pig Model of Sub-Acute Myocardial Infarction. <i>Cells</i> , 2021, 10, 2571.	1.8	8
81	Single-step, multiple retroviral transduction of human T cells. <i>Journal of Gene Medicine</i> , 2002, 4, 27-37.	1.4	8
82	In vivo site-specific recombination using the λ -rec/sixsystem. <i>BioTechniques</i> , 2008, 45, 69-78.	0.8	7
83	Increased neuronal death and disturbed axonal growth in the $Pol\gamma$ -deficient mouse embryonic retina. <i>Scientific Reports</i> , 2016, 6, 25928.	1.6	7
84	Age-related oxidative stress confines damage-responsive Bmi1+ cells to perivascular regions in the murine adult heart. <i>Redox Biology</i> , 2019, 22, 101156.	3.9	6
85	$Pol\gamma$ Deficiency Increases Resistance to Oxidative Damage and Delays Liver Aging. <i>PLoS ONE</i> , 2014, 9, e93074.	1.1	6
86	ZAP-70 upregulation in transformed B cells after early pre-BI cell transplant into NOD/SCID mice. <i>Oncogene</i> , 2005, 24, 5119-5124.	2.6	4
87	A general structure for DNA-dependent DNA polymerases. <i>Gene</i> , 1991, 108, 165.	1.0	3
88	Plasmatic Membrane Expression of Adhesion Molecules in Human Cardiac Progenitor/Stem Cells Might Explain Their Superior Cell Engraftment after Cell Transplantation. <i>Stem Cells International</i> , 2020, 2020, 1-13.	1.2	3
89	Comparative proteomic analysis of nuclear and cytoplasmic compartments in human cardiac progenitor cells. <i>Scientific Reports</i> , 2022, 12, 146.	1.6	3
90	The Vascular Niche for Adult Cardiac Progenitor Cells. <i>Antioxidants</i> , 2022, 11, 882.	2.2	3

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91	Po1 β deficiency induces moderate shortening of P53 $^{\Delta/\Delta}$ mouse lifespan and modifies tumor spectrum. DNA Repair, 2017, 54, 40-45.	1.3	2
92	Bmi1-mediated epigenetic signature acts as a critical barrier for direct reprogramming to mature cardiomyocytes. Stem Cell Investigation, 2016, 3, 28-28.	1.3	1
93	Erratum to "Lentiviral Vector-Mediated Gene Transfer in T Cells from Wiskott-Aldrich Syndrome Patients Leads to Functional Correction" Molecular Therapy, 2005, 11, 492.	3.7	0
94	Use of retroviral vectors in lymphohemato-poietic lineage analysis. , 1996, , 1127-1142.		0
95	Oxidative Stress as a Critical Determinant of Adult Cardiac Progenitor Cell-Fate Decisions. , 2019, , 339-363.		0
96	Cardiac progenitors cells for vascular repair. Aging, 2019, 11, 1319-1320.	1.4	0