

Pablo Perez-Pinera

List of Publications by Citations

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55
papers

3,390
citations

29
h-index

58
g-index

63
ext. papers

4,005
ext. citations

9.1
avg, IF

5.12
L-index

#	Paper	IF	Citations
55	RNA-guided gene activation by CRISPR-Cas9-based transcription factors. <i>Nature Methods</i> , 2013 , 10, 973-61.6	61.6	861
54	Multiplexed and programmable regulation of gene networks with an integrated RNA and CRISPR/Cas toolkit in human cells. <i>Molecular Cell</i> , 2014 , 54, 698-710	17.6	345
53	Synergistic and tunable human gene activation by combinations of synthetic transcription factors. <i>Nature Methods</i> , 2013 , 10, 239-42	21.6	181
52	Reading frame correction by targeted genome editing restores dystrophin expression in cells from Duchenne muscular dystrophy patients. <i>Molecular Therapy</i> , 2013 , 21, 1718-26	11.7	141
51	Advances in targeted genome editing. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 268-77	9.7	127
50	Anaplastic lymphoma kinase is activated through the pleiotrophin/receptor protein-tyrosine phosphatase beta/zeta signaling pathway: an alternative mechanism of receptor tyrosine kinase activation. <i>Journal of Biological Chemistry</i> , 2007 , 282, 28683-28690	5.4	104
49	Genome-wide specificity of DNA binding, gene regulation, and chromatin remodeling by TALE- and CRISPR/Cas9-based transcriptional activators. <i>Genome Research</i> , 2015 , 25, 1158-69	9.7	99
48	Scaffold-mediated lentiviral transduction for functional tissue engineering of cartilage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E798-806	11.5	97
47	CRISPR-SKIP: programmable gene splicing with single base editors. <i>Genome Biology</i> , 2018 , 19, 107	18.3	90
46	Correction of dystrophin expression in cells from Duchenne muscular dystrophy patients through genomic excision of exon 51 by zinc finger nucleases. <i>Molecular Therapy</i> , 2015 , 23, 523-32	11.7	86
45	Fyn is a downstream target of the pleiotrophin/receptor protein tyrosine phosphatase beta/zeta-signaling pathway: regulation of tyrosine phosphorylation of Fyn by pleiotrophin. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 332, 664-9	3.4	84
44	Engineering Synthetic Gene Circuits in Living Cells with CRISPR Technology. <i>Trends in Biotechnology</i> , 2016 , 34, 535-547	15.1	82
43	Pleiotrophin produced by multiple myeloma induces transdifferentiation of monocytes into vascular endothelial cells: a novel mechanism of tumor-induced vasculogenesis. <i>Blood</i> , 2009 , 113, 1992-2002	22.2	70
42	Pleiotrophin stimulates tyrosine phosphorylation of beta-adducin through inactivation of the transmembrane receptor protein tyrosine phosphatase beta/zeta. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 335, 232-9	3.4	65
41	Treatment of a Mouse Model of ALS by In Vivo Base Editing. <i>Molecular Therapy</i> , 2020 , 28, 1177-1189	11.7	62
40	Gene targeting to the ROSA26 locus directed by engineered zinc finger nucleases. <i>Nucleic Acids Research</i> , 2012 , 40, 3741-52	20.1	61
39	Disruption of the β L Isoform of GABP Reverses Glioblastoma Replicative Immortality in a TERT Promoter Mutation-Dependent Manner. <i>Cancer Cell</i> , 2018 , 34, 513-528.e8	24.3	55

38	Pleiotrophin regulates serine phosphorylation and the cellular distribution of beta-adducin through activation of protein kinase C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 12407-12	11.5	53
37	Pleiotrophin, a multifunctional tumor promoter through induction of tumor angiogenesis, remodeling of the tumor microenvironment, and activation of stromal fibroblasts. <i>Cell Cycle</i> , 2007 , 6, 2877-83	4.7	51
36	Synthetic biology and microbioreactor platforms for programmable production of biologics at the point-of-care. <i>Nature Communications</i> , 2016 , 7, 12211	17.4	50
35	Prosurvival long noncoding RNA regulates a subset of p53 targets in human colorectal cancer cells by binding to Matr3. <i>ELife</i> , 2017 , 6,	8.9	50
34	Pleiotrophin, a multifunctional angiogenic factor: mechanisms and pathways in normal and pathological angiogenesis. <i>Current Opinion in Hematology</i> , 2008 , 15, 210-4	3.3	46
33	Secretion of pleiotrophin stimulates breast cancer progression through remodeling of the tumor microenvironment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10888-93	11.5	46
32	Immunotherapy for Alzheimer's disease: rational basis in ongoing clinical trials. <i>Current Pharmaceutical Design</i> , 2011 , 17, 508-20	3.3	44
31	Anaplastic lymphoma kinase is expressed in different subtypes of human breast cancer. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 358, 399-403	3.4	41
30	Mammalian Synthetic Biology: Engineering Biological Systems. <i>Annual Review of Biomedical Engineering</i> , 2017 , 19, 249-277	12	36
29	The neurotrophic factor pleiotrophin modulates amphetamine-seeking behaviour and amphetamine-induced neurotoxic effects: evidence from pleiotrophin knockout mice. <i>Addiction Biology</i> , 2010 , 15, 403-12	4.6	32
28	Identification of the angiogenesis signaling domain in pleiotrophin defines a mechanism of the angiogenic switch. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 343, 653-8	3.4	32
27	Development and neuronal dependence of cutaneous sensory nerve formations: Lessons from neurotrophins. <i>Microscopy Research and Technique</i> , 2010 , 73, 513-29	2.8	26
26	Human odontoblasts express transient receptor protein and acid-sensing ion channel mechanosensor proteins. <i>Microscopy Research and Technique</i> , 2011 , 74, 457-63	2.8	25
25	The receptor protein tyrosine phosphatase (RPTP)beta/zeta is expressed in different subtypes of human breast cancer. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 362, 5-10	3.4	25
24	Targeted exon skipping with AAV-mediated split adenine base editors. <i>Cell Discovery</i> , 2019 , 5, 41	22.3	16
23	Versatile and on-demand biologics co-production in yeast. <i>Nature Communications</i> , 2018 , 9, 77	17.4	16
22	Pleiotrophin inhibits hippocampal long-term potentiation: a role of pleiotrophin in learning and memory. <i>Growth Factors</i> , 2009 , 27, 189-94	1.6	16
21	Immunohistochemical profile of human pancreatic pacinian corpuscles. <i>Pancreas</i> , 2010 , 39, 403-10	2.6	15

20	Clinical implication of Meissner's corpuscles. <i>CNS and Neurological Disorders - Drug Targets</i> , 2012 , 11, 856-68	2.6	15
19	Multiplexed Targeted Genome Engineering Using a Universal Nuclease-Assisted Vector Integration System. <i>ACS Synthetic Biology</i> , 2016 , 5, 582-8	5.7	15
18	In Vivo Zinc Finger Nuclease-mediated Targeted Integration of a Glucose-6-phosphatase Transgene Promotes Survival in Mice With Glycogen Storage Disease Type IA. <i>Molecular Therapy</i> , 2016 , 24, 697-706	11.7	12
17	Production of Functional Anti-Ebola Antibodies in <i>Pichia pastoris</i> . <i>ACS Synthetic Biology</i> , 2017 , 6, 2183-2190	5.7	12
16	Epigenetic engineering of yeast reveals dynamic molecular adaptation to methylation stress and genetic modulators of specific DNMT3 family members. <i>Nucleic Acids Research</i> , 2020 , 48, 4081-4099	20.1	9
15	Putting Non-coding RNA on Display with CRISPR. <i>Molecular Cell</i> , 2015 , 59, 146-8	17.6	8
14	Design and integration of a problem-based biofabrication course into an undergraduate biomedical engineering curriculum. <i>Journal of Biological Engineering</i> , 2016 , 10, 10	6.3	8
13	Multiplexed and tunable transcriptional activation by promoter insertion using nuclease-assisted vector integration. <i>Nucleic Acids Research</i> , 2019 , 47, e67	20.1	7
12	Optimizing Quantum Dot Probe Size for Single-Receptor Imaging. <i>ACS Nano</i> , 2020 , 14, 8343-8358	16.7	7
11	Pleiotrophin expression during odontogenesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2012 , 60, 366-75	3.4	7
10	The continuously evolving CRISPR barcoding toolbox. <i>Genome Biology</i> , 2018 , 19, 143	18.3	6
9	Sodium chloride regulates Extracellular Regulated Kinase 1/2 in different tumor cell lines. <i>Molecular and Cellular Biochemistry</i> , 2006 , 293, 93-101	4.2	5
8	Targeted Gene Activation Using RNA-Guided Nucleases. <i>Methods in Molecular Biology</i> , 2017 , 1468, 235-504	10.4	4
7	Targeted Gene Knock Out Using Nuclease-Assisted Vector Integration: Hemi- and Homozygous Deletion of JAG1. <i>Methods in Molecular Biology</i> , 2018 , 1772, 233-248	1.4	3
6	Hypertonicity activates GSK3beta in tumor cells. <i>Molecular and Cellular Biochemistry</i> , 2006 , 291, 93-100	4.2	3
5	Remote Laboratory Exercise to Develop Micropipetting Skills. <i>Journal of Microbiology and Biology Education</i> , 2021 , 22,	1.3	3
4	ABC-GWAS: Functional Annotation of Estrogen Receptor-Positive Breast Cancer Genetic Variants. <i>Frontiers in Genetics</i> , 2020 , 11, 730	4.5	0
3	Technological advances in integrating multi-kilobase DNA sequences into genomes. <i>Current Opinion in Biomedical Engineering</i> , 2018 , 7, 16-23	4.4	0

2 Targeted Genome Editing Using Nuclease-assisted Vector Integration 237-248

1 Directed Evolution of CRISPR-Cas9 Base Editors. *Trends in Biotechnology*, 2019, 37, 1151-1153

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