

Oscar Fernandez-Capetillo

List of Publications by Citations

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109
papers

14,560
citations

51
h-index

117
g-index

117
ext. papers

16,228
ext. citations

14
avg, IF

6.06
L-index

#	Paper	IF	Citations
109	53BP1 inhibits homologous recombination in Brca1-deficient cells by blocking resection of DNA breaks. <i>Cell</i> , 2010 , 141, 243-54	56.2	1147
108	Genomic instability in mice lacking histone H2AX. <i>Science</i> , 2002 , 296, 922-7	33.3	1124
107	A p53-mediated DNA damage response limits reprogramming to ensure iPS cell genomic integrity. <i>Nature</i> , 2009 , 460, 1149-53	50.4	842
106	Histone H2AX phosphorylation is dispensable for the initial recognition of DNA breaks. <i>Nature Cell Biology</i> , 2003 , 5, 675-9	23.4	795
105	H2AX: the histone guardian of the genome. <i>DNA Repair</i> , 2004 , 3, 959-67	4.3	743
104	DNA damage-induced G2-M checkpoint activation by histone H2AX and 53BP1. <i>Nature Cell Biology</i> , 2002 , 4, 993-7	23.4	538
103	H2AX haploinsufficiency modifies genomic stability and tumor susceptibility. <i>Cell</i> , 2003 , 114, 371-383	56.2	475
102	H2AX is required for chromatin remodeling and inactivation of sex chromosomes in male mouse meiosis. <i>Developmental Cell</i> , 2003 , 4, 497-508	10.2	461
101	Replication fork stability confers chemoresistance in BRCA-deficient cells. <i>Nature</i> , 2016 , 535, 382-7	50.4	456
100	Sirt1 improves healthy ageing and protects from metabolic syndrome-associated cancer. <i>Nature Communications</i> , 2010 , 1, 3	17.4	456
99	Silencing of unsynapsed meiotic chromosomes in the mouse. <i>Nature Genetics</i> , 2005 , 37, 41-7	36.3	444
98	Changes in chromatin structure and mobility in living cells at sites of DNA double-strand breaks. <i>Journal of Cell Biology</i> , 2006 , 172, 823-34	7.3	405
97	A cell-based screen identifies ATR inhibitors with synthetic lethal properties for cancer-associated mutations. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 721-7	17.6	358
96	Exploiting oncogene-induced replicative stress for the selective killing of Myc-driven tumors. <i>Nature Structural and Molecular Biology</i> , 2011 , 18, 1331-1335	17.6	281
95	A mouse model of ATR-Seckel shows embryonic replicative stress and accelerated aging. <i>Nature Genetics</i> , 2009 , 41, 891-8	36.3	281
94	Identification of early replicating fragile sites that contribute to genome instability. <i>Cell</i> , 2013 , 152, 620-30	36.2	280
93	Increased telomere fragility and fusions resulting from TRF1 deficiency lead to degenerative pathologies and increased cancer in mice. <i>Genes and Development</i> , 2009 , 23, 2060-75	12.6	275

92	53BP1 mediates productive and mutagenic DNA repair through distinct phosphoprotein interactions. <i>Cell</i> , 2013 , 153, 1266-80	56.2	247
91	BRCA1 functions independently of homologous recombination in DNA interstrand crosslink repair. <i>Molecular Cell</i> , 2012 , 46, 125-35	17.6	212
90	Global chromatin compaction limits the strength of the DNA damage response. <i>Journal of Cell Biology</i> , 2007 , 178, 1101-8	7.3	197
89	Role of Nbs1 in the activation of the Atm kinase revealed in humanized mouse models. <i>Nature Cell Biology</i> , 2005 , 7, 675-85	23.4	194
88	ATM regulates ATR chromatin loading in response to DNA double-strand breaks. <i>Journal of Experimental Medicine</i> , 2006 , 203, 297-303	16.6	193
87	Cdk2 suppresses cellular senescence induced by the c-myc oncogene. <i>Nature Cell Biology</i> , 2010 , 12, 54-9; sup pp 1-14	23.4	184
86	p38 Mitogen-activated protein kinase- and HuR-dependent stabilization of p21(Cip1) mRNA mediates the G(1)/S checkpoint. <i>Molecular and Cellular Biology</i> , 2009 , 29, 4341-51	4.8	183
85	Extracellular signal-regulated protein kinase signaling pathway negatively regulates the phenotypic and functional maturation of monocyte-derived human dendritic cells. <i>Blood</i> , 2001 , 98, 2175-82	2.2	174
84	Phosphorylation of histone H2B at DNA double-strand breaks. <i>Journal of Experimental Medicine</i> , 2004 , 199, 1671-7	16.6	148
83	Cyclin-dependent kinase inhibitor p21 controls adult neural stem cell expansion by regulating Sox2 gene expression. <i>Cell Stem Cell</i> , 2013 , 12, 88-100	18	142
82	Targeting ATR and Chk1 kinases for cancer treatment: a new model for new (and old) drugs. <i>Molecular Oncology</i> , 2011 , 5, 368-73	7.9	141
81	Focusing on Foci: H2AX and the Recruitment of DNA-Damage Response Factors. <i>Cell Cycle</i> , 2003 , 2, 425-426	426	137
80	Targeting ATR in cancer. <i>Nature Reviews Cancer</i> , 2018 , 18, 586-595	31.3	136
79	Oncogenic stress sensitizes murine cancers to hypomorphic suppression of ATR. <i>Journal of Clinical Investigation</i> , 2012 , 122, 241-52	15.9	136
78	Mutation of E2F2 in mice causes enhanced T lymphocyte proliferation, leading to the development of autoimmunity. <i>Immunity</i> , 2001 , 15, 959-70	32.3	133
77	Nuclear phosphoinositide 3-kinase beta controls double-strand break DNA repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7491-6	11.5	131
76	ATR signaling can drive cells into senescence in the absence of DNA breaks. <i>Genes and Development</i> , 2008 , 22, 297-302	12.6	126
75	The solute carrier SLC35F2 enables YM155-mediated DNA damage toxicity. <i>Nature Chemical Biology</i> , 2014 , 10, 768-773	11.7	125

74	A Genome-wide CRISPR Screen Identifies CDC25A as a Determinant of Sensitivity to ATR Inhibitors. <i>Molecular Cell</i> , 2016 , 62, 307-313	17.6	110
73	The ATR barrier to replication-born DNA damage. <i>DNA Repair</i> , 2010 , 9, 1249-55	4.3	106
72	Neuropilin-1 regulates attachment in human endothelial cells independently of vascular endothelial growth factor receptor-2. <i>Blood</i> , 2005 , 105, 1992-9	2.2	102
71	Replication stress and cancer: it takes two to tango. <i>Experimental Cell Research</i> , 2014 , 329, 26-34	4.2	99
70	RAD51C deficiency in mice results in early prophase I arrest in males and sister chromatid separation at metaphase II in females. <i>Journal of Cell Biology</i> , 2007 , 176, 581-92	7.3	96
69	A proteomic characterization of factors enriched at nascent DNA molecules. <i>Cell Reports</i> , 2013 , 3, 1105-116.6	16.6	87
68	Class switching and meiotic defects in mice lacking the E3 ubiquitin ligase RNF8. <i>Journal of Experimental Medicine</i> , 2010 , 207, 973-81	16.6	83
67	Focusing on foci: H2AX and the recruitment of DNA-damage response factors. <i>Cell Cycle</i> , 2003 , 2, 426-7	4.7	83
66	USP7 is a SUMO deubiquitinase essential for DNA replication. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 270-7	17.6	82
65	An extra allele of Chk1 limits oncogene-induced replicative stress and promotes transformation. <i>Journal of Experimental Medicine</i> , 2012 , 209, 455-61	16.6	80
64	Limiting replication stress during somatic cell reprogramming reduces genomic instability in induced pluripotent stem cells. <i>Nature Communications</i> , 2015 , 6, 8036	17.4	65
63	Replication stress caused by low MCM expression limits fetal erythropoiesis and hematopoietic stem cell functionality. <i>Nature Communications</i> , 2015 , 6, 8548	17.4	64
62	Immunoreactivity for the group III metabotropic glutamate receptor subtype mGluR4a in the superficial laminae of the rat spinal dorsal horn. <i>Journal of Comparative Neurology</i> , 2001 , 430, 448-57	3.4	61
61	Histone H2A C-terminus regulates chromatin dynamics, remodeling, and histone H1 binding. <i>PLoS Genetics</i> , 2010 , 6, e1001234	6	58
60	H2AX regulates meiotic telomere clustering. <i>Journal of Cell Biology</i> , 2003 , 163, 15-20	7.3	54
59	ATR suppresses telomere fragility and recombination but is dispensable for elongation of short telomeres by telomerase. <i>Journal of Cell Biology</i> , 2010 , 188, 639-52	7.3	51
58	Targeting the kinase activities of ATR and ATM exhibits antitumoral activity in mouse models of MLL-rearranged AML. <i>Science Signaling</i> , 2016 , 9, ra91	8.8	50
57	Overall Cdk activity modulates the DNA damage response in mammalian cells. <i>Journal of Cell Biology</i> , 2009 , 187, 773-80	7.3	48

56	PARP-2 sustains erythropoiesis in mice by limiting replicative stress in erythroid progenitors. <i>Cell Death and Differentiation</i> , 2015 , 22, 1144-57	12.7	47
55	Increased Rrm2 gene dosage reduces fragile site breakage and prolongs survival of ATR mutant mice. <i>Genes and Development</i> , 2015 , 29, 690-5	12.6	43
54	Limited role of murine ATM in oncogene-induced senescence and p53-dependent tumor suppression. <i>PLoS ONE</i> , 2009 , 4, e5475	3.7	43
53	p27Kip1 stabilization is essential for the maintenance of cell cycle arrest in response to DNA damage. <i>Cancer Research</i> , 2009 , 69, 8726-32	10.1	43
52	Genomic instability in iPS: time for a break. <i>EMBO Journal</i> , 2011 , 30, 991-3	13	40
51	Efficacy of ATR inhibitors as single agents in Ewing sarcoma. <i>Oncotarget</i> , 2016 , 7, 58759-58767	3.3	40
50	A synthetic lethal interaction between APC/C and topoisomerase poisons uncovered by proteomic screens. <i>Cell Reports</i> , 2014 , 6, 670-83	10.6	38
49	Lac operator repeats generate a traceable fragile site in mammalian cells. <i>EMBO Reports</i> , 2011 , 12, 10326-35	10.5	37
48	"ATR activation in response to ionizing radiation: still ATM territory". <i>Cell Division</i> , 2006 , 1, 7	2.8	36
47	NSMCE2 suppresses cancer and aging in mice independently of its SUMO ligase activity. <i>EMBO Journal</i> , 2015 , 34, 2604-19	13	34
46	A p53-dependent response limits the viability of mammalian haploid cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9367-9372	11.5	33
45	Linking histone deacetylation with the repair of DNA breaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1427-8	11.5	33
44	ATR is required to complete meiotic recombination in mice. <i>Nature Communications</i> , 2018 , 9, 2622	17.4	29
43	Specific association of mouse MDC1/NFBD1 with NBS1 at sites of DNA-damage. <i>Cell Cycle</i> , 2005 , 4, 177-82	4.7	29
42	Intrauterine programming of ageing. <i>EMBO Reports</i> , 2010 , 11, 32-6	6.5	27
41	POLD3 Is Haploinsufficient for DNA Replication in Mice. <i>Molecular Cell</i> , 2016 , 63, 877-83	17.6	25
40	Polycomb protein SCML2 regulates the cell cycle by binding and modulating CDK/CYCLIN/p21 complexes. <i>PLoS Biology</i> , 2013 , 11, e1001737	9.7	22
39	INK4a/ARF limits the expansion of cells suffering from replication stress. <i>Cell Cycle</i> , 2013 , 12, 1948-54	4.7	16

38	Immunocytochemical localization of the metabotropic glutamate receptor mGluR4a in the piriform cortex of the rat. <i>Journal of Comparative Neurology</i> , 2000 , 417, 263-274	3.4	16
37	The RNA Polymerase II Factor RPAP1 Is Critical for Mediator-Driven Transcription and Cell Identity. <i>Cell Reports</i> , 2018 , 22, 396-410	10.6	15
36	Emergence and evolutionary analysis of the human DDR network: implications in comparative genomics and downstream analyses. <i>Molecular Biology and Evolution</i> , 2014 , 31, 940-61	8.3	15
35	ATR expands embryonic stem cell fate potential in response to replication stress. <i>ELife</i> , 2020 , 9,	8.9	15
34	Genomic instability: on the birth and death of cancer. <i>Clinical and Translational Oncology</i> , 2007 , 9, 216-203.6	3.6	13
33	p21 suppresses inflammation and tumorigenesis on pRB-deficient stratified epithelia. <i>Oncogene</i> , 2014 , 33, 4599-4612	9.2	11
32	A Chemical Screen Identifies Compounds Capable of Selecting for Haploidy in Mammalian Cells. <i>Cell Reports</i> , 2019 , 28, 597-604.e4	10.6	10
31	Fos-dependent induction of Chk1 protects osteoblasts from replication stress. <i>Cell Cycle</i> , 2014 , 13, 1980-47	4.7	10
30	Naked replication forks break apRPA. <i>Cell</i> , 2013 , 155, 979-80	56.2	9
29	CGK733 does not inhibit ATM or ATR kinase activity in H460 human lung cancer cells. <i>DNA Repair</i> , 2011 , 10, 1000-1; author reply 1002	4.3	9
28	ATM breaks into heterochromatin. <i>Molecular Cell</i> , 2008 , 31, 303-4	17.6	9
27	Modeling the study of DNA damage responses in mice. <i>Methods in Molecular Biology</i> , 2015 , 1267, 413-371.4	1.4	8
26	A Chemical Screen Identifies Compounds Limiting the Toxicity of C9ORF72 Dipeptide Repeats. <i>Cell Chemical Biology</i> , 2019 , 26, 235-243.e5	8.2	8
25	ERF deletion rescues RAS deficiency in mouse embryonic stem cells. <i>Genes and Development</i> , 2018 , 32, 568-576	12.6	7
24	The (elusive) role of the SMC5/6 complex. <i>Cell Cycle</i> , 2016 , 15, 775-6	4.7	7
23	Widespread displacement of DNA- and RNA-binding factors underlies toxicity of arginine-rich cell-penetrating peptides. <i>EMBO Journal</i> , 2021 , 40, e103311	13	7
22	A SUMO and ubiquitin code coordinates protein traffic at replication factories. <i>BioEssays</i> , 2016 , 38, 1209-1217	12.7	7
21	A Single Conserved Residue Mediates Binding of the Ribonucleotide Reductase Catalytic Subunit RRM1 to RRM2 and Is Essential for Mouse Development. <i>Molecular and Cellular Biology</i> , 2015 , 35, 2910-7.8	4.8	6

20	Trap: An RNA Sequencing-Based Pipeline for the Identification of Gene-Trap Insertions in Mammalian Cells. <i>Journal of Molecular Biology</i> , 2017 , 429, 2780-2789	6.5	6
19	Late-replicating CNVs as a source of new genes. <i>Biology Open</i> , 2013 , 2, 1402-11	2.2	6
18	A bispecific monomeric nanobody induces spike trimer dimers and neutralizes SARS-CoV-2 in vivo.. <i>Nature Communications</i> , 2022 , 13, 155	17.4	6
17	TIAR marks nuclear G2/M transition granules and restricts CDK1 activity under replication stress. <i>EMBO Reports</i> , 2019 , 20,	6.5	6
16	Prolonged estrogen deprivation triggers a broad immunosuppressive phenotype in breast cancer cells. <i>Molecular Oncology</i> , 2021 ,	7.9	6
15	Why cells respond differently to DNA damage: a chromatin perspective. <i>Cell Cycle</i> , 2008 , 7, 980-3	4.7	4
14	Distinct roles for PARP-1 and PARP-2 in c-Myc-driven B-cell lymphoma in mice. <i>Blood</i> , 2021 ,	2.2	4
13	The maternal side of Fanconi Anemia. <i>Molecular Cell</i> , 2014 , 55, 803-804	17.6	2
12	ATR is required to complete meiotic recombination in mice		2
11	USP7 and VCP define the SUMO/Ubiquitin landscape at the DNA replication fork. <i>Cell Reports</i> , 2021 , 37, 109819	10.6	1
10	A chemical screen identifies a link between lipid metabolism and mRNA translation		1
9	USP7 couples DNA replication termination to mitotic entry		1
8	USP7 limits CDK1 activity throughout the cell cycle. <i>EMBO Journal</i> , 2021 , 40, e99692	13	1
7	A chemical screen for modulators of mRNA translation identifies a distinct mechanism of toxicity for sphingosine kinase inhibitors. <i>PLoS Biology</i> , 2021 , 19, e3001263	9.7	1
6	Overview of virus and cancer relationships. Position paper. <i>Revista Espanola De Quimioterapia</i> , 2021 , 34, 525-555	1.6	0
5	Supraphysiological protection from replication stress does not extend mammalian lifespan. <i>Aging</i> , 2020 , 12, 5612-5624	5.6	
4	ATM regulates ATR chromatin loading in response to DNA double-strand breaks. <i>Journal of Cell Biology</i> , 2006 , 172, i9-i9	7.3	
3	Class switching and meiotic defects in mice lacking the E3 ubiquitin ligase RNF8. <i>Journal of Cell Biology</i> , 2010 , 189, i5-i5	7.3	

- 2 An extra allele of Chk1 limits oncogene-induced replicative stress and promotes transformation. *Journal of Cell Biology*, **2012**, 196, i7-i7 73
- 1 Control of DNA Replication by ATR. *Cancer Drug Discovery and Development*, **2018**, 35-61 03