

Jiri Bartek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

16,201
citations

37
h-index

108
g-index

108
ext. papers

19,064
ext. citations

15.2
avg, IF

6.76
L-index

#	Paper	IF	Citations
96	The DNA-damage response in human biology and disease. <i>Nature</i> , 2009 , 461, 1071-8	50.4	3641
95	DNA damage response as a candidate anti-cancer barrier in early human tumorigenesis. <i>Nature</i> , 2005 , 434, 864-70	50.4	2210
94	Oncogene-induced senescence is part of the tumorigenesis barrier imposed by DNA damage checkpoints. <i>Nature</i> , 2006 , 444, 633-7	50.4	1495
93	The causes and consequences of genetic heterogeneity in cancer evolution. <i>Nature</i> , 2013 , 501, 338-45	50.4	1473
92	An oncogene-induced DNA damage model for cancer development. <i>Science</i> , 2008 , 319, 1352-5	33.3	1377
91	Replication stress links structural and numerical cancer chromosomal instability. <i>Nature</i> , 2013 , 494, 492-496	30.4	521
90	53BP1 nuclear bodies form around DNA lesions generated by mitotic transmission of chromosomes under replication stress. <i>Nature Cell Biology</i> , 2011 , 13, 243-53	23.4	470
89	Inhibition of human Chk1 causes increased initiation of DNA replication, phosphorylation of ATR targets, and DNA breakage. <i>Molecular and Cellular Biology</i> , 2005 , 25, 3553-62	4.8	439
88	Distinct spatiotemporal dynamics of mammalian checkpoint regulators induced by DNA damage. <i>Nature Cell Biology</i> , 2003 , 5, 255-60	23.4	403
87	REV7 counteracts DNA double-strand break resection and affects PARP inhibition. <i>Nature</i> , 2015 , 521, 541-544	50.4	376
86	Pathways governing G1/S transition and their response to DNA damage. <i>FEBS Letters</i> , 2001 , 490, 117-22	3.8	336
85	Alcohol-abuse drug disulfiram targets cancer via p97 segregase adaptor NPL4. <i>Nature</i> , 2017 , 552, 194-199	50.4	320
84	TRIP12 and UBR5 suppress spreading of chromatin ubiquitylation at damaged chromosomes. <i>Cell</i> , 2012 , 150, 697-709	56.2	224
83	High speed of fork progression induces DNA replication stress and genomic instability. <i>Nature</i> , 2018 , 559, 279-284	50.4	221
82	Site-specific phosphorylation dynamics of the nuclear proteome during the DNA damage response. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 1314-23	7.6	195
81	Chronic p53-independent p21 expression causes genomic instability by deregulating replication licensing. <i>Nature Cell Biology</i> , 2016 , 18, 777-89	23.4	165
80	NAD(P)H:quinone oxidoreductase 1 NQO1*2 genotype (P187S) is a strong prognostic and predictive factor in breast cancer. <i>Nature Genetics</i> , 2008 , 40, 844-53	36.3	163

79	Selective Loss of PARG Restores PARylation and Counteracts PARP Inhibitor-Mediated Synthetic Lethality. <i>Cancer Cell</i> , 2018 , 33, 1078-1093.e12	24.3	139
78	ATM activation in normal human tissues and testicular cancer. <i>Cell Cycle</i> , 2005 , 4, 838-45	4.7	129
77	ATR mediates a checkpoint at the nuclear envelope in response to mechanical stress. <i>Cell</i> , 2014 , 158, 633-46	56.2	125
76	Myc and Ras oncogenes engage different energy metabolism programs and evoke distinct patterns of oxidative and DNA replication stress. <i>Molecular Oncology</i> , 2015 , 9, 601-16	7.9	106
75	Polyplex Evolution: Understanding Biology, Optimizing Performance. <i>Molecular Therapy</i> , 2017 , 25, 1476-1490	14.9	102
74	Nucleolus as an emerging hub in maintenance of genome stability and cancer pathogenesis. <i>Oncogene</i> , 2018 , 37, 2351-2366	9.2	101
73	DNA replication stress mediates APOBEC3 family mutagenesis in breast cancer. <i>Genome Biology</i> , 2016 , 17, 185	18.3	96
72	Inhibition of Chk1 by CEP-3891 accelerates mitotic nuclear fragmentation in response to ionizing Radiation. <i>Cancer Research</i> , 2004 , 64, 9035-40	10.1	91
71	Ubiquitin-activating enzyme UBA1 is required for cellular response to DNA damage. <i>Cell Cycle</i> , 2012 , 11, 1573-82	4.7	64
70	FBH1 Catalyzes Regression of Stalled Replication Forks. <i>Cell Reports</i> , 2015 , 10, 1749-1757	10.6	63
69	Retinoblastoma pathway defects show differential ability to activate the constitutive DNA damage response in human tumorigenesis. <i>Cancer Research</i> , 2006 , 66, 10258-63	10.1	55
68	DNA Replication Determines Timing of Mitosis by Restricting CDK1 and PLK1 Activation. <i>Molecular Cell</i> , 2018 , 71, 117-128.e3	17.6	55
67	Superresolution live imaging of plant cells using structured illumination microscopy. <i>Nature Protocols</i> , 2015 , 10, 1248-63	18.8	53
66	Mutational signatures reveal the role of RAD52 in p53-independent p21-driven genomic instability. <i>Genome Biology</i> , 2018 , 19, 37	18.3	47
65	Senolytic Cocktail Dasatinib+Quercetin (D+Q) Does Not Enhance the Efficacy of Senescence-Inducing Chemotherapy in Liver Cancer. <i>Frontiers in Oncology</i> , 2018 , 8, 459	5.3	46
64	Phase separated microenvironments inside the cell nucleus are linked to disease and regulate epigenetic state, transcription and RNA processing. <i>Seminars in Cell and Developmental Biology</i> , 2019 , 90, 94-103	7.5	44
63	RECQ5 helicase promotes resolution of conflicts between replication and transcription in human cells. <i>Journal of Cell Biology</i> , 2016 , 214, 401-15	7.3	37
62	Autophagy role(s) in response to oncogenes and DNA replication stress. <i>Cell Death and Differentiation</i> , 2020 , 27, 1134-1153	12.7	37

61	A quantitative 14-3-3 interaction screen connects the nuclear exosome targeting complex to the DNA damage response. <i>Genes and Development</i> , 2014 , 28, 1977-82	12.6	36
60	TGF- β /NF1/Smad4-mediated suppression of ANT2 contributes to oxidative stress in cellular senescence. <i>Cellular Signalling</i> , 2014 , 26, 2903-11	4.9	35
59	Immunochemical analysis of the p53 oncoprotein in matched primary and metastatic human tumours. <i>European Journal of Cancer</i> , 1993 , 29A, 881-6	7.5	33
58	Disulfiram's anti-cancer activity reflects targeting NPL4, not inhibition of aldehyde dehydrogenase. <i>Oncogene</i> , 2019 , 38, 6711-6722	9.2	31
57	Regulation and roles of Cdc7 kinase under replication stress. <i>Cell Cycle</i> , 2014 , 13, 1859-66	4.7	28
56	Polyethylenimine architecture-dependent metabolic imprints and perturbation of cellular redox homeostasis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015 , 1847, 328-342	4.6	26
55	AMBRA1 regulates cyclin D to guard S-phase entry and genomic integrity. <i>Nature</i> , 2021 , 592, 799-803	50.4	24
54	Biological safety and tissue distribution of (16-mercaptohexadecyl)trimethylammonium bromide-modified cationic gold nanorods. <i>Biomaterials</i> , 2018 , 154, 275-290	15.6	22
53	Androgen receptor signaling fuels DNA repair and radioresistance in prostate cancer. <i>Cancer Discovery</i> , 2013 , 3, 1222-4	24.4	21
52	Perturbation of RNA Polymerase I transcription machinery by ablation of HEATR1 triggers the RPL5/RPL11-MDM2-p53 ribosome biogenesis stress checkpoint pathway in human cells. <i>Cell Cycle</i> , 2018 , 17, 92-101	4.7	19
51	Topoisomerase-1 and -2A gene copy numbers are elevated in mismatch repair-proficient colorectal cancers. <i>Molecular Oncology</i> , 2015 , 9, 1207-17	7.9	17
50	A short acidic motif in ARF guards against mitochondrial dysfunction and melanoma susceptibility. <i>Nature Communications</i> , 2014 , 5, 5348	17.4	17
49	The antimalarial drug amodiaquine stabilizes p53 through ribosome biogenesis stress, independently of its autophagy-inhibitory activity. <i>Cell Death and Differentiation</i> , 2020 , 27, 773-789	12.7	17
48	Quantification of cellular protein and redox imbalance using SILAC-iodoTMT methodology. <i>Redox Biology</i> , 2019 , 24, 101227	11.3	16
47	Dynamic alterations of bone marrow cytokine landscape of myelodysplastic syndromes patients treated with 5-azacytidine. <i>Oncotarget</i> , 2016 , 5, e1183860	7.2	16
46	Dysregulated Ribosome Biogenesis Reveals Therapeutic Liabilities in Cancer. <i>Trends in Cancer</i> , 2021 , 7, 57-76	12.5	16
45	Targeting the NPL4 Adaptor of p97/VCP Segregase by Disulfiram as an Emerging Cancer Vulnerability Evokes Replication Stress and DNA Damage while Silencing the ATR Pathway. <i>Cells</i> , 2020 , 9,	7.9	14
44	Tumor growth accelerated by chemotherapy-induced senescent cells is suppressed by treatment with IL-12 producing cellular vaccines. <i>Oncotarget</i> , 2016 , 7, 54952-54964	3.3	13

43	Complementary genetic screens identify the E3 ubiquitin ligase CBLC, as a modifier of PARP inhibitor sensitivity. <i>Oncotarget</i> , 2015 , 6, 10746-58	3.3	13
42	Induction of APOBEC3 Exacerbates DNA Replication Stress and Chromosomal Instability in Early Breast and Lung Cancer Evolution. <i>Cancer Discovery</i> , 2021 , 11, 2456-2473	24.4	13
41	Targeting genotoxic and proteotoxic stress-response pathways in human prostate cancer by clinically available PARP inhibitors, vorinostat and disulfiram. <i>Prostate</i> , 2019 , 79, 352-362	4.2	13
40	Regulation of replication fork speed: Mechanisms and impact on genomic stability. <i>DNA Repair</i> , 2019 , 81, 102654	4.3	12
39	Dopamine signaling: target in glioblastoma. <i>Oncotarget</i> , 2014 , 5, 1116-7	3.3	12
38	Patterns of DNA damage response in intracranial germ cell tumors versus glioblastomas reflect cell of origin rather than brain environment: implications for the anti-tumor barrier concept and treatment. <i>Molecular Oncology</i> , 2014 , 8, 1667-78	7.9	11
37	Cancer Cells Employ Nuclear Caspase-8 to Overcome the p53-Dependent G2/M Checkpoint through Cleavage of USP28. <i>Molecular Cell</i> , 2020 , 77, 970-984.e7	17.6	10
36	Synthesis and study of novel pH-independent fluorescent mitochondrial labels based on Rhodamine B. <i>RSC Advances</i> , 2016 , 6, 23242-23251	3.7	10
35	MKK7 and ARF: new players in the DNA damage response scenery. <i>Cell Cycle</i> , 2014 , 13, 1227-36	4.7	10
34	Cells and Stripes: A novel quantitative photo-manipulation technique. <i>Scientific Reports</i> , 2016 , 6, 19567	4.9	10
33	Valganciclovir as Add-on to Standard Therapy in Glioblastoma Patients. <i>Clinical Cancer Research</i> , 2020 , 26, 4031-4039	12.9	9
32	Reduced Expression of PROX1 Transitions Glioblastoma Cells into a Mesenchymal Gene Expression Subtype. <i>Cancer Research</i> , 2018 , 78, 5901-5916	10.1	9
31	Human RTEL1 associates with Poldip3 to facilitate responses to replication stress and R-loop resolution. <i>Genes and Development</i> , 2020 , 34, 1065-1074	12.6	8
30	Cancer-associated mutations in the ribosomal protein L5 gene dysregulate the HDM2/p53-mediated ribosome biogenesis checkpoint. <i>Oncogene</i> , 2020 , 39, 3443-3457	9.2	8
29	Loss of nuclear DNA ligase III reverts PARP inhibitor resistance in BRCA1/53BP1 double-deficient cells by exposing ssDNA gaps. <i>Molecular Cell</i> , 2021 , 81, 4692-4708.e9	17.6	8
28	Role of DNA Damage Response in Suppressing Malignant Progression of Chronic Myeloid Leukemia and Polycythemia Vera: Impact of Different Oncogenes. <i>Cancers</i> , 2020 , 12,	6.6	8
27	Golgi feels DNAs pain. <i>Cell</i> , 2014 , 156, 392-3	56.2	7
26	The ubiquitin-dependent ATPase p97 removes cytotoxic trapped PARP1 from chromatin.. <i>Nature Cell Biology</i> , 2022 ,	23.4	7

25	MYC and RAS are unable to cooperate in overcoming cellular senescence and apoptosis in normal human fibroblasts. <i>Cell Cycle</i> , 2018 , 17, 2697-2715	4.7	7
24	Interferon-regulated suprabasin is essential for stress-induced stem-like cell conversion and therapy resistance of human malignancies. <i>Molecular Oncology</i> , 2019 , 13, 1467-1489	7.9	6
23	A recurrent chromosomal inversion suffices for driving escape from oncogene-induced senescence via subTAD reorganization. <i>Molecular Cell</i> , 2021 , 81, 4907-4923.e8	17.6	6
22	The exon-junction complex helicase eIF4A3 controls cell fate via coordinated regulation of ribosome biogenesis and translational output. <i>Science Advances</i> , 2021 , 7,	14.3	6
21	Cdc7 kinase stimulates Aurora B kinase in M-phase. <i>Scientific Reports</i> , 2019 , 9, 18622	4.9	5
20	Human cytomegalovirus and Herpes Simplex type I virus can engage RNA polymerase I for transcription of immediate early genes. <i>Oncotarget</i> , 2017 , 8, 96536-96552	3.3	4
19	Nociceptin/orphanin FQ opioid receptor (NOP) selective ligand MCOPPB links anxiolytic and senolytic effects. <i>GeroScience</i> , 2021 , 1	8.9	3
18	Aberrantly elevated suprabasin in the bone marrow as a candidate biomarker of advanced disease state in myelodysplastic syndromes. <i>Molecular Oncology</i> , 2020 , 14, 2403-2419	7.9	3
17	Microthermal-induced subcellular-targeted protein damage in cells on plasmonic nanosilver-modified surfaces evokes a two-phase HSP-p97/VCP response. <i>Nature Communications</i> , 2021 , 12, 713	17.4	3
16	Cep63 recruits cdk1 to the centrosome-letter. <i>Cancer Research</i> , 2015 , 75, 777-8	10.1	2
15	Response to Bakhoun et al. <i>Current Biology</i> , 2014 , 24, R150	6.3	2
14	Dosage compensation of an aneuploid genome in mouse spermatogenic cells. <i>Biology of Reproduction</i> , 2014 , 90, 124	3.9	2
13	Peroxiredoxin 6 protects irradiated cells from oxidative stress and shapes their senescence-associated cytokine landscape.. <i>Redox Biology</i> , 2021 , 49, 102212	11.3	2
12	RNA-interference screen for p53 regulators unveils a role of WDR75 in ribosome biogenesis. <i>Cell Death and Differentiation</i> , 2021 ,	12.7	2
11	SFRP2 induces a mesenchymal subtype transition by suppression of SOX2 in glioblastoma. <i>Oncogene</i> , 2021 , 40, 5066-5080	9.2	2
10	NQO1*2 polymorphism predicts overall survival in MDS patients. <i>British Journal of Haematology</i> , 2019 , 184, 305-308	4.5	2
9	Cancer cell stemness, responses to experimental genotoxic treatments, cytomegalovirus protein expression and DNA replication stress in pediatric medulloblastomas. <i>Cell Cycle</i> , 2020 , 19, 727-741	4.7	1
8	Role of DNA Repair Factor Xeroderma Pigmentosum Protein Group C in Response to Replication Stress As Revealed by DNA Fragile Site Affinity Chromatography and Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2016 , 15, 4505-4517	5.6	1

7	Perturbation of mitochondrial bioenergetics by polycations counteracts resistance to BRAF inhibition in melanoma cells. <i>Journal of Controlled Release</i> , 2019 , 309, 158-172	11.7	1
6	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
5	The human nucleoporin Tpr protects cells from RNA-mediated replication stress. <i>Nature Communications</i> , 2021 , 12, 3937	17.4	1
4	A drug repurposing strategy for overcoming human multiple myeloma resistance to standard-of-care treatment.. <i>Cell Death and Disease</i> , 2022 , 13, 203	9.8	1
3	MutS β regulates G4-associated telomeric R-loops to maintain telomere integrity in ALT cancer cells.. <i>Cell Reports</i> , 2022 , 39, 110602	10.6	0
2	Phospho-SIM and exon8b of PML protein regulate formation of doxorubicin-induced rDNA-PML compartment.. <i>DNA Repair</i> , 2022 , 114, 103319	4.3	0
1	Cancer cells use self-inflicted DNA breaks to evade growth limits imposed by genotoxic stress.. <i>Science</i> , 2022 , 376, 476-483	33.3	0