

Jiri Bartek

List of Publications by Year in Descending Order

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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 ubiquitin-dependent ATPase p97 removes cytotoxic trapped PARP1 from chromatin.. <i>Nature Cell Biology</i> , 2022 , | 23.4 | 7 |
| 95 | 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 |
| 94 | MutS γ regulates G4-associated telomeric R-loops to maintain telomere integrity in ALT cancer cells.. <i>Cell Reports</i> , 2022 , 39, 110602 | 10.6 | 0 |
| 93 | 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 |
| 92 | 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 |
| 91 | Nociceptin/orphanin FQ opioid receptor (NOP) selective ligand MCOPPB links anxiolytic and senolytic effects. <i>GeroScience</i> , 2021 , 1 | 8.9 | 3 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | RNA-interference screen for p53 regulators unveils a role of WDR75 in ribosome biogenesis. <i>Cell Death and Differentiation</i> , 2021 , | 12.7 | 2 |
| 86 | AMBRA1 regulates cyclin D to guard S-phase entry and genomic integrity. <i>Nature</i> , 2021 , 592, 799-803 | 50.4 | 24 |
| 85 | 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 |
| 84 | SFRP2 induces a mesenchymal subtype transition by suppression of SOX2 in glioblastoma. <i>Oncogene</i> , 2021 , 40, 5066-5080 | 9.2 | 2 |
| 83 | 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 |
| 82 | The human nucleoporin Tpr protects cells from RNA-mediated replication stress. <i>Nature Communications</i> , 2021 , 12, 3937 | 17.4 | 1 |
| 81 | Dysregulated Ribosome Biogenesis Reveals Therapeutic Liabilities in Cancer. <i>Trends in Cancer</i> , 2021 , 7, 57-76 | 12.5 | 16 |
| 80 | 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 |

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| 79 | 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 |
| 78 | Valganciclovir as Add-on to Standard Therapy in Glioblastoma Patients. <i>Clinical Cancer Research</i> , 2020 , 26, 4031-4039 | 12.9 | 9 |
| 77 | 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 |
| 76 | 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 |
| 75 | 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 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | Autophagy role(s) in response to oncogenes and DNA replication stress. <i>Cell Death and Differentiation</i> , 2020 , 27, 1134-1153 | 12.7 | 37 |
| 70 | 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 |
| 69 | 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 |
| 68 | Quantification of cellular protein and redox imbalance using SILAC-iodoTMT methodology. <i>Redox Biology</i> , 2019 , 24, 101227 | 11.3 | 16 |
| 67 | 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 |
| 66 | 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 |
| 65 | Disulfiram's anti-cancer activity reflects targeting NPL4, not inhibition of aldehyde dehydrogenase. <i>Oncogene</i> , 2019 , 38, 6711-6722 | 9.2 | 31 |
| 64 | Regulation of replication fork speed: Mechanisms and impact on genomic stability. <i>DNA Repair</i> , 2019 , 81, 102654 | 4.3 | 12 |
| 63 | 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 |
| 62 | Cdc7 kinase stimulates Aurora B kinase in M-phase. <i>Scientific Reports</i> , 2019 , 9, 18622 | 4.9 | 5 |

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| 61 | 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 |
| 60 | NQO1*2 polymorphism predicts overall survival in MDS patients. <i>British Journal of Haematology</i> , 2019 , 184, 305-308 | 4.5 | 2 |
| 59 | Nucleolus as an emerging hub in maintenance of genome stability and cancer pathogenesis. <i>Oncogene</i> , 2018 , 37, 2351-2366 | 9.2 | 101 |
| 58 | Mutational signatures reveal the role of RAD52 in p53-independent p21-driven genomic instability. <i>Genome Biology</i> , 2018 , 19, 37 | 18.3 | 47 |
| 57 | Biological safety and tissue distribution of (16-mercaptohexadecyl)trimethylammonium bromide-modified cationic gold nanorods. <i>Biomaterials</i> , 2018 , 154, 275-290 | 15.6 | 22 |
| 56 | Reduced Expression of PROX1 Transitions Glioblastoma Cells into a Mesenchymal Gene Expression Subtype. <i>Cancer Research</i> , 2018 , 78, 5901-5916 | 10.1 | 9 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | 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 |
| 51 | High speed of fork progression induces DNA replication stress and genomic instability. <i>Nature</i> , 2018 , 559, 279-284 | 50.4 | 221 |
| 50 | DNA Replication Determines Timing of Mitosis by Restricting CDK1 and PLK1 Activation. <i>Molecular Cell</i> , 2018 , 71, 117-128.e3 | 17.6 | 55 |
| 49 | Polyplex Evolution: Understanding Biology, Optimizing Performance. <i>Molecular Therapy</i> , 2017 , 25, 1476-1490 | 11.9 | 102 |
| 48 | Alcohol-abuse drug disulfiram targets cancer via p97 segregase adaptor NPL4. <i>Nature</i> , 2017 , 552, 194-199 | 30.4 | 320 |
| 47 | 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 |
| 46 | DNA replication stress mediates APOBEC3 family mutagenesis in breast cancer. <i>Genome Biology</i> , 2016 , 17, 185 | 18.3 | 96 |
| 45 | 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 |
| 44 | Chronic p53-independent p21 expression causes genomic instability by deregulating replication licensing. <i>Nature Cell Biology</i> , 2016 , 18, 777-89 | 23.4 | 165 |

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|----|---|------|-----|
| 43 | 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 |
| 42 | 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 |
| 41 | Cells and Stripes: A novel quantitative photo-manipulation technique. <i>Scientific Reports</i> , 2016 , 6, 19567 | 4.9 | 10 |
| 40 | Dynamic alterations of bone marrow cytokine landscape of myelodysplastic syndromes patients treated with 5-azacytidine. <i>Onc Immunology</i> , 2016 , 5, e1183860 | 7.2 | 16 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | Superresolution live imaging of plant cells using structured illumination microscopy. <i>Nature Protocols</i> , 2015 , 10, 1248-63 | 18.8 | 53 |
| 35 | REV7 counteracts DNA double-strand break resection and affects PARP inhibition. <i>Nature</i> , 2015 , 521, 541-544 | 50.4 | 376 |
| 34 | Cep63 recruits cdk1 to the centrosome-letter. <i>Cancer Research</i> , 2015 , 75, 777-8 | 10.1 | 2 |
| 33 | FBH1 Catalyzes Regression of Stalled Replication Forks. <i>Cell Reports</i> , 2015 , 10, 1749-1757 | 10.6 | 63 |
| 32 | 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 |
| 31 | 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 |
| 30 | Golgi feels DNAs pain. <i>Cell</i> , 2014 , 156, 392-3 | 56.2 | 7 |
| 29 | A short acidic motif in ARF guards against mitochondrial dysfunction and melanoma susceptibility. <i>Nature Communications</i> , 2014 , 5, 5348 | 17.4 | 17 |
| 28 | 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 |
| 27 | ATR mediates a checkpoint at the nuclear envelope in response to mechanical stress. <i>Cell</i> , 2014 , 158, 633-46 | 56.2 | 125 |
| 26 | TGF- β 1/Smad4-mediated suppression of ANT2 contributes to oxidative stress in cellular senescence. <i>Cellular Signalling</i> , 2014 , 26, 2903-11 | 4.9 | 35 |

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|----|---|------|------|
| 25 | Response to Bakhoun et al. <i>Current Biology</i> , 2014 , 24, R150 | 6.3 | 2 |
| 24 | Regulation and roles of Cdc7 kinase under replication stress. <i>Cell Cycle</i> , 2014 , 13, 1859-66 | 4.7 | 28 |
| 23 | MKK7 and ARF: new players in the DNA damage response scenery. <i>Cell Cycle</i> , 2014 , 13, 1227-36 | 4.7 | 10 |
| 22 | 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 |
| 21 | Dosage compensation of an aneuploid genome in mouse spermatogenic cells. <i>Biology of Reproduction</i> , 2014 , 90, 124 | 3.9 | 2 |
| 20 | Dopamine signaling: target in glioblastoma. <i>Oncotarget</i> , 2014 , 5, 1116-7 | 3.3 | 12 |
| 19 | The causes and consequences of genetic heterogeneity in cancer evolution. <i>Nature</i> , 2013 , 501, 338-45 | 50.4 | 1473 |
| 18 | Replication stress links structural and numerical cancer chromosomal instability. <i>Nature</i> , 2013 , 494, 492-496 | 50.4 | 521 |
| 17 | Androgen receptor signaling fuels DNA repair and radioresistance in prostate cancer. <i>Cancer Discovery</i> , 2013 , 3, 1222-4 | 24.4 | 21 |
| 16 | TRIP12 and UBR5 suppress spreading of chromatin ubiquitylation at damaged chromosomes. <i>Cell</i> , 2012 , 150, 697-709 | 56.2 | 224 |
| 15 | Ubiquitin-activating enzyme UBA1 is required for cellular response to DNA damage. <i>Cell Cycle</i> , 2012 , 11, 1573-82 | 4.7 | 64 |
| 14 | 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 |
| 13 | 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 |
| 12 | The DNA-damage response in human biology and disease. <i>Nature</i> , 2009 , 461, 1071-8 | 50.4 | 3641 |
| 11 | 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 |
| 10 | An oncogene-induced DNA damage model for cancer development. <i>Science</i> , 2008 , 319, 1352-5 | 33.3 | 1377 |
| 9 | 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 |
| 8 | Oncogene-induced senescence is part of the tumorigenesis barrier imposed by DNA damage checkpoints. <i>Nature</i> , 2006 , 444, 633-7 | 50.4 | 1495 |

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|---|--|------|------|
| 7 | ATM activation in normal human tissues and testicular cancer. <i>Cell Cycle</i> , 2005 , 4, 838-45 | 4.7 | 129 |
| 6 | DNA damage response as a candidate anti-cancer barrier in early human tumorigenesis. <i>Nature</i> , 2005 , 434, 864-70 | 50.4 | 2210 |
| 5 | 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 |
| 4 | 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 |
| 3 | Distinct spatiotemporal dynamics of mammalian checkpoint regulators induced by DNA damage. <i>Nature Cell Biology</i> , 2003 , 5, 255-60 | 23.4 | 403 |
| 2 | Pathways governing G1/S transition and their response to DNA damage. <i>FEBS Letters</i> , 2001 , 490, 117-22 | 3.8 | 336 |
| 1 | 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 |