# Aswin Mangerich

List of Publications by Year
in descending order



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|---|---|---|---|
| 64 papers | 2,346 citations | 236612 25 h-index | 214527 47 g-index |
| 68 all docs | 68 docs citations | 68 times ranked | 3280 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | PARP1 and XRCC1 exhibit a reciprocal relationship in genotoxic stress response. Cell Biology and Toxicology, 2023, 39, 345-364. | 2.4 | 3 |
| 2 | ADPâ€ribosyltransferases, an update on function and nomenclature. FEBS Journal, 2022, 289, 7399-7410. | 2.2 | 150 |
| 3 | Fueling genome maintenance: On the versatile roles of NAD+Âin preserving DNA integrity. Journal of Biological Chemistry, 2022, 298, 102037. | 1.6 | 11 |
| 4 | Chronic senescent human mesenchymal stem cells as possible contributor to the wound healing disorder after exposure to the alkylating agent sulfur mustard. Archives of Toxicology, 2021, 95, 727-747. | 1.9 | 5 |
| 5 | Impact of the Cellular Zinc Status on PARP-1 Activity and Genomic Stability in HeLa S3 Cells. Chemical Research in Toxicology, 2021, 34, 839-848. | 1.7 | 5 |
| 6 | Unrestrained poly-ADP-ribosylation provides insights into chromatin regulation and human disease. Molecular Cell, 2021, 81, 2640-2655.e8. | 4.5 | 52 |
| 7 | Mechanistic insights into the three steps of poly(ADP-ribosylation) reversal. Nature Communications, 2021, 12, 4581. | 5.8 | 34 |
| 8 | Why structure and chain length matter: on the biological significance underlying the structural heterogeneity of poly(ADP-ribose). Nucleic Acids Research, 2021, 49, 8432-8448. | 6.5 | 30 |
| 9 | The role of poly(ADP-ribose) polymerases in manganese exposed Caenorhabditis elegans. Journal of Trace Elements in Medicine and Biology, 2020, 57, 21-27. | 1.5 | 21 |
| 10 | PARP1 catalytic variants reveal branching and chain length-specific functions of poly(ADP-ribose) in cellular physiology and stress response. Nucleic Acids Research, 2020, 48, 10015-10033. | 6.5 | 47 |
| 11 | A Multi-Endpoint Approach to Base Excision Repair Incision Activity Augmented by PARylation and DNA Damage Levels in Mice: Impact of Sex and Age. International Journal of Molecular Sciences, 2020, 21, 6600. | 1.8 | 7 |
| 12 | Real-time monitoring of PARP1-dependent PARylation by ATR-FTIRÂspectroscopy. Nature Communications, 2020, 11, 2174. | 5.8 | 50 |
| 13 | Long-term simulation of lead concentrations in agricultural soils in relation to human adverse health effects. Archives of Toxicology, 2020, 94, 2319-2329. | 1.9 | 6 |
| 14 | The Nucleolus and PARP1 in Cancer Biology. Cancers, 2020, 12, 1813. | 1.7 | 36 |
| 15 | NAD+ in sulfur mustard toxicity. Toxicology Letters, 2020, 324, 95-103. | 0.4 | 10 |
| 16 | Critical evaluation of human health risks due to hydraulic fracturing in natural gas and petroleum production. Archives of Toxicology, 2020, 94, 967-1016. | 1.9 | 36 |
| 17 | PARP1 regulates DNA damage-induced nucleolar-nucleoplasmic shuttling of WRN and XRCC1 in a toxicant and protein-specific manner. Scientific Reports, 2019, 9, 10075. | 1.6 | 24 |
| 18 | Restriction of AID activity and somatic hypermutation by PARP-1. Nucleic Acids Research, 2019, 47, 7418-7429. | 6.5 | 9 |

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|---|---|---|---|
| 19 | Comparison of Aristolochic acid I derived DNA adduct levels in human renal toxicity models. Toxicology, 2019, 420, 29-38. | 2.0 | 21 |
| 20 | Interactions of p53 with poly(ADP-ribose) and DNA induce distinct changes in protein structure as revealed by ATR-FTIR spectroscopy. Nucleic Acids Research, 2019, 47, 4843-4858. | 6.5 | 20 |
| 21 | NAD+ augmentation restores mitophagy and limits accelerated aging in Werner syndrome. Nature Communications, 2019, 10, 5284. | 5.8 | 165 |
| 22 | A mass spectrometric platform for the quantitation of sulfur mustard-induced nucleic acid adducts as mechanistically relevant biomarkers of exposure. Archives of Toxicology, 2019, 93, 61-79. | 1.9 | 24 |
| 23 | A novel exposure system generating nebulized aerosol of sulfur mustard in comparison to the standard submerse exposure. Chemico-Biological Interactions, 2019, 298, 121-128. | 1.7 | 1 |
| 24 | PARP-1 protects against colorectal tumor induction, but promotes inflammation-driven colorectal tumor progression. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4061-E4070. | 3.3 | 66 |
| 25 | Mass spectrometric analysis of sulfur mustard-induced biomolecular adducts: Are DNA adducts suitable biomarkers of exposure?. Toxicology Letters, 2018, 293, 21-30. | 0.4 | 19 |
| 26 | The C-terminal domain of p53 orchestrates the interplay between non-covalent and covalent poly(ADP-ribosyl)ation of p53 by PARP1. Nucleic Acids Research, 2018, 46, 804-822. | 6.5 | 79 |
| 27 | AÂcombined approach of surface passivation and specific immobilization to study biomolecules by ATR-FTIR spectroscopy1. Biomedical Spectroscopy and Imaging, 2018, 7, 25-33. | 1.2 | 13 |
| 28 | PARP1 protects from benzo[a]pyrene diol epoxide-induced replication stress and mutagenicity. Archives of Toxicology, 2018, 92, 1323-1340. | 1.9 | 11 |
| 29 | Functional interactions of WRN with PARP1 and poly(ADP-ribose). Experimental Gerontology, 2017, 94, 119-120. | 1.2 | 0 |
| 30 | Kinetics of poly(ADP-ribosyl)ation, but not PARP1 itself, determines the cell fate in response to DNA damage in vitro and in vivo. Nucleic Acids Research, 2017, 45, 11174-11192. | 6.5 | 28 |
| 31 | Detection of Aristolochic acid I DNA adducts via UPLC-MS/MS in RPTEC/TERT1 cells. Toxicology Letters, 2017, 280, S197. | 0.4 | 0 |
| 32 | Quantitation of Poly(ADP-Ribose) by Isotope Dilution Mass Spectrometry. Methods in Molecular Biology, 2017, 1608, 3-18. | 0.4 | 13 |
| 33 | Analyzing structureâ€“function relationships of artificial and cancer-associated PARP1 variants by reconstituting TALEN-generated HeLa<i>PARP1</i>knock-out cells. Nucleic Acids Research, 2016, 44, gkw859. | 6.5 | 23 |
| 34 | Sulfur and nitrogen mustards induce characteristic poly(ADP-ribosyl)ation responses in HaCaT keratinocytes with distinctive cellular consequences. Toxicology Letters, 2016, 244, 56-71. | 0.4 | 29 |
| 35 | Immunochemical analysis of poly(ADP-ribosyl)ation in HaCaT keratinocytes induced by the mono-alkylating agent 2-chloroethyl ethyl sulfide (CEES): Impact of experimental conditions. Toxicology Letters, 2016, 244, 72-80. | 0.4 | 7 |
| 36 | Identifying ADP-ribosylation targets by chemical genetics. Translational Cancer Research, 2016, 5, S1163-S1166. | 0.4 | 1 |

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|---|---|---|---|
| 37 | RecQ helicases and PARP1 team up in maintaining genome integrity. Ageing Research Reviews, 2015, 23, 12-28. | 5.0 | 36 |
| 38 | Day and night variations in the repair of ionizing-radiation-induced DNA damage in mouse splenocytes. DNA Repair, 2015, 28, 37-47. | 1.3 | 21 |
| 39 | Multitasking Roles for Poly(ADP-ribosyl)ation in Aging and Longevity. Cancer Drug Discovery and Development, 2015, , 125-179. | 0.2 | 1 |
| 40 | Differential and Concordant Roles for Poly(ADP-Ribose) Polymerase 1 and Poly(ADP-Ribose) in Regulating WRN and RECQL5 Activities. Molecular and Cellular Biology, 2015, 35, 3974-3989. | 1.1 | 12 |
| 41 | A High-Fat Diet and NAD + Activate Sirt1 to Rescue Premature Aging in Cockayne Syndrome. Cell Metabolism, 2014, 20, 840-855. | 7.2 | 306 |
| 42 | Mechanisms of Hg species induced toxicity in cultured human astrocytes: genotoxicity and DNA-damage response. Metallomics, 2014, 6, 662-671. | 1.0 | 44 |
| 43 | Chemical warfare in the First World War: reflections 100Âyears later. Archives of Toxicology, 2014, 88, 1909-1911. | 1.9 | 23 |
| 44 | Poly( ADP â€ribose)â€mediated interplay of XPA and PARP 1 leads to reciprocal regulation of protein function. FEBS Journal, 2014, 281, 3625-3641. | 2.2 | 59 |
| 45 | Toxicological properties of the thiolated inorganic arsenic and arsenosugar metabolite thio-dimethylarsinic acid in human bladder cells. Journal of Trace Elements in Medicine and Biology, 2014, 28, 138-146. | 1.5 | 45 |
| 46 | Base Excision Repair Glycosylase Activity Is Impaired in a Subgroup of Acute Myeloid Leukemia Resulting in Increased Levels of Oxidative Base Lesions. Blood, 2014, 124, 860-860. | 0.6 | 0 |
| 47 | An automated Fpg-based FADU method for the detection of oxidative DNA lesions and screening of antioxidants. Toxicology, 2013, 310, 15-21. | 2.0 | 14 |
| 48 | Ex vivo quantification of cellular poly(ADP-ribose) by isotope dilution mass spectrometry. Experimental Gerontology, 2013, 48, 691. | 1.2 | 0 |
| 49 | Chemistry meets biology in colitis-associated carcinogenesis. Free Radical Research, 2013, 47, 958-986. | 1.5 | 39 |
| 50 | Functional regulation of the Werner protein by poly(ADP-ribose) and PARP-1. Experimental Gerontology, 2013, 48, 691. | 1.2 | 0 |
| 51 | Functional regulation of the DNA repair protein XPA by poly(ADP-ribose). Experimental Gerontology, 2013, 48, 691. | 1.2 | 0 |
| 52 | Molecular mechanisms of Mn induced neurotoxicity: <scp>RONS</scp> generation, genotoxicity, and <scp>DNA</scp>â€damage response. Molecular Nutrition and Food Research, 2013, 57, 1255-1269. | 1.5 | 34 |
| 53 | Quantification of Cellular Poly(ADP-ribosyl)ation by Stable Isotope Dilution Mass Spectrometry Reveals Tissue- and Drug-Dependent Stress Response Dynamics. ACS Chemical Biology, 2013, 8, 1567-1575. | 1.6 | 50 |
| 54 | Increased Levels of Inosine in a Mouse Model of Inflammation. Chemical Research in Toxicology, 2013, 26, 538-546. | 1.7 | 15 |

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| 55 | Site-Specific Noncovalent Interaction of the Biopolymer Poly(ADP-ribose) with the Werner Syndrome Protein Regulates Protein Functions. ACS Chemical Biology, 2013, 8, 179-188. | 1.6 | 41 |
| 56 | Chemical and cytokine features of innate immunity characterize serum and tissue profiles in inflammatory bowel disease. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2332-41. | 3.3 | 88 |
| 57 | Abstract 2885: Features of innate immunity dominate serum and tissue protein and cytokine profiles in both mouse and human inflammatory bowel disease.. , 2013, , . | | 0 |
| 58 | Infection-induced colitis in mice causes dynamic and tissue-specific changes in stress response and DNA damage leading to colon cancer. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1820-9. | 3.3 | 209 |
| 59 | Quantitative analysis of WRN exonuclease activity by isotope dilution mass spectrometry. Mechanisms of Ageing and Development, 2012, 133, 575-579. | 2.2 | 5 |
| 60 | Pleiotropic Cellular Functions of PARP1 in Longevity and Aging: Genome Maintenance Meets Inflammation. Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-19. | 1.9 | 97 |
| 61 | How to kill tumor cells with inhibitors of poly(ADPâ€ribosyl)ation. International Journal of Cancer, 2011, 128, 251-265. | 2.3 | 77 |
| 62 | Inflammatory and age-related pathologies in mice with ectopic expression of human PARP-1. Mechanisms of Ageing and Development, 2010, 131, 389-404. | 2.2 | 57 |
| 63 | A caveat in mouse genetic engineering: ectopic gene targeting in ES cells by bidirectional extension of the homology arms of a gene replacement vector carrying human PARP-1. Transgenic Research, 2009, 18, 261-279. | 1.3 | 12 |
| 64 | The C-Terminal Domain of Y-Box Binding Protein 1 Exhibits Structure-Specific Binding to Poly(ADP-Ribose), Which Regulates PARP1 Activity. Frontiers in Cell and Developmental Biology, 0, 10, . | 1.8 | 5 |