

# Anna Lewinska

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

2,271  
citations

201575

27  
h-index

265120

42  
g-index

92  
all docs

92  
docs citations

92  
times ranked

3597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulforaphane-Induced Cell Cycle Arrest and Senescence are accompanied by DNA Hypomethylation and Changes in microRNA Profile in Breast Cancer Cells. <i>Theranostics</i> , 2017, 7, 3461-3477.	4.6	146
2	A comparison of replicative senescence and doxorubicin-induced premature senescence of vascular smooth muscle cells isolated from human aorta. <i>Biogerontology</i> , 2014, 15, 47-64.	2.0	105
3	Prolonged Effects of Silver Nanoparticles on p53/p21 Pathway-Mediated Proliferation, DNA Damage Response, and Methylation Parameters in HT22 Hippocampal Neuronal Cells. <i>Molecular Neurobiology</i> , 2017, 54, 1285-1300.	1.9	96
4	Genotoxic and mutagenic activity of diamond nanoparticles in human peripheral lymphocytes in vitro. <i>Carbon</i> , 2014, 68, 763-776.	5.4	84
5	Ursolic acid-mediated changes in glycolytic pathway promote cytotoxic autophagy and apoptosis in phenotypically different breast cancer cells. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2017, 22, 800-815.	2.2	84
6	Diosmin-induced senescence, apoptosis and autophagy in breast cancer cells of different p53 status and ERK activity. <i>Toxicology Letters</i> , 2017, 265, 117-130.	0.4	69
7	AMPK-mediated senolytic and senostatic activity of quercetin surface functionalized Fe <sub>3</sub> O <sub>4</sub> nanoparticles during oxidant-induced senescence in human fibroblasts. <i>Redox Biology</i> , 2020, 28, 101337.	3.9	67
8	Diosmin induces genotoxicity and apoptosis in DU145 prostate cancer cell line. <i>Toxicology in Vitro</i> , 2015, 29, 417-425.	1.1	65
9	Reduced levels of methyltransferase DNMT2 sensitize human fibroblasts to oxidative stress and DNA damage that is accompanied by changes in proliferation-related miRNA expression. <i>Redox Biology</i> , 2018, 14, 20-34.	3.9	63
10	Fatty Acid Profile and Biological Activities of Linseed and Rapeseed Oils. <i>Molecules</i> , 2015, 20, 22872-22880.	1.7	60
11	TOTAL ANTI-OXIDANT CAPACITY OF CELL CULTURE MEDIA. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2007, 34, 781-786.	0.9	51
12	Nanodiamond-mediated impairment of nucleolar activity is accompanied by oxidative stress and DNMT2 upregulation in human cervical carcinoma cells. <i>Chemico-Biological Interactions</i> , 2014, 220, 51-63.	1.7	48
13	Phytochemical-induced nucleolar stress results in the inhibition of breast cancer cell proliferation. <i>Redox Biology</i> , 2017, 12, 469-482.	3.9	48
14	Cadmium-induced changes in genomic DNA-methylation status increase aneuploidy events in a pig Robertsonian translocation model. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012, 747, 182-189.	0.9	42
15	Curcumin induces oxidation-dependent cell cycle arrest mediated by SIRT7 inhibition of rDNA transcription in human aortic smooth muscle cells. <i>Toxicology Letters</i> , 2015, 233, 227-238.	0.4	41
16	Curcumin elevates sirtuin level but does not postpone <i>in vitro</i> senescence of human cells building the vasculature. <i>Oncotarget</i> , 2016, 7, 19201-19213.	0.8	41
17	Curcumin-mediated decrease in the expression of nucleolar organizer regions in cervical cancer (HeLa) cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014, 771, 43-52.	0.9	38
18	Curcumin induces senescence of primary human cells building the vasculature in a DNA damage and ATM-independent manner. <i>Age</i> , 2015, 37, 9744.	3.0	34

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19	Capsaicin-induced genotoxic stress does not promote apoptosis in A549 human lung and DU145 prostate cancer cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015, 779, 23-34.	0.9	34
20	The antioxidant properties of carnitine in vitro. <i>Cellular and Molecular Biology Letters</i> , 2010, 15, 90-7.	2.7	33
21	Nanoparticle-mediated decrease of lamin B1 pools promotes a TRF protein-based adaptive response in cultured cells. <i>Biomaterials</i> , 2015, 53, 107-116.	5.7	33
22	Downregulation of methyltransferase Dnmt2 results in conditionâ€dependent telomere shortening and senescence or apoptosis in mouse fibroblasts. <i>Journal of Cellular Physiology</i> , 2017, 232, 3714-3726.	2.0	33
23	Links between nucleolar activity, rDNA stability, aneuploidy and chronological aging in the yeast <i>Saccharomyces cerevisiae</i> . <i>Biogerontology</i> , 2014, 15, 289-316.	2.0	32
24	The lack of functional DNMT2/TRDMT1 gene modulates cancer cell responses during drug-induced senescence. <i>Aging</i> , 2021, 13, 15833-15874.	1.4	30
25	Gold Nanorods and Nanoprisms Mediate Different Photothermal Cell Death Mechanisms In Vitro and In Vivo. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13718-13730.	4.0	29
26	<i>Helicobacter pylori</i> cagA Gene Polymorphism Affects the Total Antioxidant Capacity of Human Saliva. <i>Helicobacter</i> , 2010, 15, 53-57.	1.6	27
27	Gold Nanoparticles Promote Oxidant-Mediated Activation of NF- $\kappa$ B and 53BP1 Recruitment-Based Adaptive Response in Human Astrocytes. <i>BioMed Research International</i> , 2015, 2015, 1-9.	0.9	27
28	Yeast flavohemoglobin protects against nitrosative stress and controls ferric reductase activity. <i>Redox Report</i> , 2006, 11, 231-239.	1.4	25
29	Oxidant-based anticancer activity of a novel synthetic analogue of capsaicin, capsaicin epoxide. <i>Redox Report</i> , 2015, 20, 116-125.	1.4	25
30	Evaluation of cytotoxic and genotoxic activity of fungicide formulation TangoÂ® Super in bovine lymphocytes. <i>Environmental Pollution</i> , 2017, 220, 255-263.	3.7	24
31	In vitro exposure to thiacloprid-based insecticide formulation promotes oxidative stress, apoptosis and genetic instability in bovine lymphocytes. <i>Toxicology in Vitro</i> , 2019, 61, 104654.	1.1	24
32	A role for yeast glutaredoxin genes in selenite-mediated oxidative stress. <i>Fungal Genetics and Biology</i> , 2008, 45, 1182-1187.	0.9	23
33	Redox status of equine seminal plasma reflects the pattern and magnitude of DNA damage in sperm cells. <i>Theriogenology</i> , 2010, 74, 1677-1684.	0.9	23
34	Protection of flavonoids against hypochlorite-induced protein modifications. <i>Food Chemistry</i> , 2013, 141, 1227-1241.	4.2	23
35	Evaluation of the cyto- and genotoxic activity of yerba mate ( <i>Ilex paraguariensis</i> ) in human lymphocytes in vitro. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2009, 679, 18-23.	0.9	21
36	DNA hypomethylation and oxidative stress-mediated increase in genomic instability in equine sarcoid-derived fibroblasts. <i>Biochimie</i> , 2012, 94, 2013-2024.	1.3	21

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37	FTIR and Raman Spectroscopy-Based Biochemical Profiling Reflects Genomic Diversity of Clinical <i>Candida</i> Isolates That May Be Useful for Diagnosis and Targeted Therapy of Candidiasis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 988.	1.8	21
38	The Roles of Host 5-Methylcytosine RNA Methyltransferases during Viral Infections. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8176.	1.8	21
39	Remifentanyl preconditioning protects against hypoxia-induced senescence and necroptosis in human cardiac myocytes in vitro. <i>Aging</i> , 2020, 12, 13924-13938.	1.4	21
40	Nucleolus as an oxidative stress sensor in the yeast <i>Saccharomyces cerevisiae</i> . <i>Redox Report</i> , 2010, 15, 87-96.	1.4	20
41	Assessment of yeast chromosome XII instability: Single chromosome comet assay. <i>Fungal Genetics and Biology</i> , 2014, 63, 9-16.	0.9	20
42	Light-triggered modulation of cell antioxidant defense by polymer semiconducting nanoparticles in a model organism. <i>MRS Communications</i> , 2018, 8, 918-925.	0.8	20
43	Phytochemicals Rosmarinic Acid, Ampelopsin, and Amorfrutin-A Can Modulate Age-Related Phenotype of Serially Passaged Human Skin Fibroblasts in vitro. <i>Frontiers in Genetics</i> , 2019, 10, 81.	1.1	20
44	Multimodal polymer encapsulated CdSe/Fe <sub>3</sub> O <sub>4</sub> nanoplatform with improved biocompatibility for two-photon and temperature stimulated bioapplications. <i>Materials Science and Engineering C</i> , 2021, 127, 112224.	3.8	20
45	DNA strand breaks induced by nuclear hijacking of neuronal NOS as an anti-cancer effect of 2-methoxyestradiol. <i>Oncotarget</i> , 2015, 6, 15449-15463.	0.8	20
46	Limited Effectiveness of Antioxidants in the Protection of Yeast Defective in Antioxidant Proteins. <i>Free Radical Research</i> , 2004, 38, 1159-1165.	1.5	19
47	The nitroxide antioxidant Tempol affects metal-induced cyto- and genotoxicity in human lymphocytes in vitro. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008, 649, 7-14.	0.9	19
48	Nanodiamond-induced increase in ROS and RNS levels activates NF- $\kappa$ B and augments thiol pools in human hepatocytes. <i>Diamond and Related Materials</i> , 2015, 55, 95-101.	1.8	19
49	Sarcoid-derived fibroblasts: Links between genomic instability, energy metabolism and senescence. <i>Biochimie</i> , 2014, 97, 163-172.	1.3	16
50	Affected chromosome homeostasis and genomic instability of clonal yeast cultures. <i>Current Genetics</i> , 2016, 62, 405-418.	0.8	16
51	Adaptive response to chronic mild ethanol stress involves ROS, sirtuins and changes in chromosome dosage in wine yeasts. <i>Oncotarget</i> , 2016, 7, 29958-29976.	0.8	16
52	Changes of markers of oxidative stress during menstrual cycle. <i>Redox Report</i> , 2008, 13, 237-240.	1.4	15
53	Age-related changes in genomic stability of horses. <i>Mechanisms of Ageing and Development</i> , 2011, 132, 257-268.	2.2	15
54	A genetic analysis of nitric oxide-mediated signaling during chronological aging in the yeast. <i>Biogerontology</i> , 2011, 12, 309-320.	2.0	15

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55	Evaluation of Anticancer and Antibacterial Activity of Four 4-Thiazolidinone-Based Derivatives. <i>Molecules</i> , 2022, 27, 894.	1.7	15
56	Changes in DNA methylation patterns and repetitive sequences in blood lymphocytes of aged horses. <i>Age</i> , 2014, 36, 31-48.	3.0	14
57	Genome-wide array-CGH analysis reveals <i>YRF1</i> gene copy number variation that modulates genetic stability in distillery yeasts. <i>Oncotarget</i> , 2015, 6, 30650-30663.	0.8	14
58	<i>Helicobacter pylori</i> -induced premature senescence of extragastric cells may contribute to chronic skin diseases. <i>Biogerontology</i> , 2017, 18, 293-299.	2.0	13
59	Chronic exposure to rapamycin and episodic serum starvation modulate ageing of human fibroblasts in vitro. <i>Biogerontology</i> , 2017, 18, 841-854.	2.0	13
60	c-Myc activation promotes cofilin-mediated F-actin cytoskeleton remodeling and telomere homeostasis as a response to oxidant-based DNA damage in medulloblastoma cells. <i>Redox Biology</i> , 2019, 24, 101163.	3.9	13
61	Nano-Based Theranostic Tools for the Detection and Elimination of Senescent Cells. <i>Cells</i> , 2020, 9, 2659.	1.8	13
62	Senolysis-Based Elimination of Chemotherapy-Induced Senescent Breast Cancer Cells by Quercetin Derivative with Blocked Hydroxy Groups. <i>Cancers</i> , 2022, 14, 605.	1.7	12
63	5-Azacytidine Inhibits the Activation of Senescence Program and Promotes Cytotoxic Autophagy during Trdmt1-Mediated Oxidative Stress Response in Insulinoma $\beta$ -TC-6 Cells. <i>Cells</i> , 2022, 11, 1213.	1.8	12
64	Protection of yeast lacking the Ure2 protein against the toxicity of heavy metals and hydroperoxides by antioxidants. <i>Free Radical Research</i> , 2007, 41, 580-590.	1.5	11
65	Shifts in rDNA levels act as a genome buffer promoting chromosome homeostasis. <i>Cell Cycle</i> , 2015, 14, 3475-3487.	1.3	11
66	A Non-Vector Approach to Increase Lipid Levels in the Microalga <i>Planktochlorella nurekis</i> . <i>Molecules</i> , 2020, 25, 270.	1.7	11
67	Snake venoms promote stress-induced senescence in human fibroblasts. <i>Journal of Cellular Physiology</i> , 2019, 234, 6147-6160.	2.0	10
68	Application of a <i>YHB1-GFP</i> reporter to detect nitrosative stress in yeast. <i>Redox Report</i> , 2008, 13, 161-171.	1.4	9
69	Energy Conversion and Biocompatibility of Surface Functionalized Magnetite Nanoparticles with Phosphonic Moieties. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4931-4948.	1.2	9
70	Identification of dermatophyte species using genomic in situ hybridization (GISH). <i>Journal of Microbiological Methods</i> , 2014, 100, 32-41.	0.7	8
71	Evaluation of Antifungal Activity of <i>Naja pallida</i> and <i>Naja mossambica</i> Venoms against Three <i>Candida</i> Species. <i>Toxins</i> , 2020, 12, 500.	1.5	8
72	Treatment with Modified Extracts of the Microalga <i>Planktochlorella nurekis</i> Attenuates the Development of Stress-Induced Senescence in Human Skin Cells. <i>Nutrients</i> , 2020, 12, 1005.	1.7	8

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73	Oxidant-induced decrease of the expression of nucleolar organizer regions in pig lymphocytes can be useful for monitoring the cellular effects of oxidative stress. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2008, 653, 124-129.	0.9	7
74	Copy number variations of genes involved in stress responses reflect the redox state and DNA damage in brewing yeasts. <i>Cell Stress and Chaperones</i> , 2016, 21, 849-864.	1.2	7
75	Rapid detection of yeast rRNA genes with primed <i>in situ</i> (PRINS) labeling. <i>FEMS Yeast Research</i> , 2009, 9, 634-640.	1.1	6
76	PRINS detection of 18S rDNA in pig, red fox and Chinese raccoon dog, and centromere DNA in horse. <i>Hereditas</i> , 2010, 147, 320-324.	0.5	6
77	Single-cell analysis of aneuploidy events using yeast whole chromosome painting probes (WCPPs). <i>Journal of Microbiological Methods</i> , 2015, 111, 40-49.	0.7	6
78	Altered dynamics in the circadian oscillation of clock genes in serum-shocked NIH-3T3 cells by the treatment of GYY4137 or AOAA. <i>Archives of Biochemistry and Biophysics</i> , 2020, 680, 108237.	1.4	6
79	Deficiency of TRDMT1 impairs exogenous RNA-based response and promotes retrotransposon activity during long-term culture of osteosarcoma cells. <i>Toxicology in Vitro</i> , 2022, 80, 105323.	1.1	6
80	Activation of transposable elements and genetic instability during long-term culture of the human fungal pathogen <i>Candida albicans</i> . <i>Biogerontology</i> , 2019, 20, 457-474.	2.0	5
81	Plant-Derived Molecules $\hat{\pm}$ -Boswellic Acid Acetate, Praeruptorin-A, and Salvianolic Acid-B Have Age-Related Differential Effects in Young and Senescent Human Fibroblasts <i>In Vitro</i> . <i>Molecules</i> , 2020, 25, 141.	1.7	4
82	Genetic structure of Hucul and Anglo-Arabian horses at the Tert locus. <i>Annals of Animal Science</i> , 2012, 12, 483-494.	0.6	3
83	The Identification of a Novel Fucosidosis-Associated FUCA1 Mutation: A Case of a 5-Year-Old Polish Girl with Two Additional Rare Chromosomal Aberrations and Affected DNA Methylation Patterns. <i>Genes</i> , 2021, 12, 74.	1.0	3
84	Imaging flow cytometry-based analysis of bacterial profiles in milk samples. <i>Food and Bioproducts Processing</i> , 2021, 128, 102-108.	1.8	2
85	Silver birch pollen-derived microRNAs promote NF- $\hat{\rho}$ B-mediated inflammation in human lung cells. <i>Science of the Total Environment</i> , 2021, 800, 149531.	3.9	2
86	Genetic profiling of yeast industrial strains using <i>in situ</i> comparative genomic hybridization (CGH). <i>Journal of Biotechnology</i> , 2015, 210, 52-56.	1.9	1
87	Relationships between rDNA, Nop1 and Sir complex in biotechnologically relevant distillery yeasts. <i>Archives of Microbiology</i> , 2016, 198, 715-723.	1.0	1
88	Ageing Process in Chromatin of Animals. <i>Annals of Animal Science</i> , 2012, 12, 301-309.	0.6	0
89	Role of Shelterin Complex and Alternative Telomere Lengthening in Genomic Instability and Disease Progression in Chronic Myeloid Leukemia. <i>Blood</i> , 2016, 128, 1880-1880.	0.6	0
90	Yeast Models in Biogerontological Studies. , 2019, , 443-443.		0