# Vilhelm A Bohr

#### List of Publications by Citations

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28,208 386 151 93 h-index g-index citations papers 8.4 7.18 32,143 429 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
386	SIRT6 is a histone H3 lysine 9 deacetylase that modulates telomeric chromatin. <i>Nature</i> , <b>2008</b> , 452, 492-	6 50.4	835
385	Nutrient-sensitive mitochondrial NAD+ levels dictate cell survival. Cell, 2007, 130, 1095-107	56.2	754
384	Ageing as a risk factor for neurodegenerative disease. <i>Nature Reviews Neurology</i> , <b>2019</b> , 15, 565-581	15	634
383	Mitophagy inhibits amyloid-hand tau pathology and reverses cognitive deficits in models of Alzheimer@ disease. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 401-412	25.5	546
382	The Bloom@and Werner@syndrome proteins are DNA structure-specific helicases. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, 2843-9	20.1	449
381	Base excision repair of oxidative DNA damage and association with cancer and aging. <i>Carcinogenesis</i> , <b>2009</b> , 30, 2-10	4.6	419
380	Defective mitophagy in XPA via PARP-1 hyperactivation and NAD(+)/SIRT1 reduction. <i>Cell</i> , <b>2014</b> , 157, 882-896	56.2	417
379	Repair of oxidative damage to nuclear and mitochondrial DNA in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 25409-12	5.4	356
378	Human RecQ helicases in DNA repair, recombination, and replication. <i>Annual Review of Biochemistry</i> , <b>2014</b> , 83, 519-52	29.1	348
377	Werner@syndrome protein (WRN) migrates Holliday junctions and co-localizes with RPA upon replication arrest. <i>EMBO Reports</i> , <b>2000</b> , 1, 80-4	6.5	343
376	Mitophagy and Alzheimer@ Disease: Cellular and Molecular Mechanisms. <i>Trends in Neurosciences</i> , <b>2017</b> , 40, 151-166	13.3	330
375	Senolytic therapy alleviates Alassociated oligodendrocyte progenitor cell senescence and cognitive deficits in an Alzheimer disease model. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 719-728	25.5	315
374	Repair of oxidative DNA damage in nuclear and mitochondrial DNA, and some changes with aging in mammalian cells. <i>Free Radical Biology and Medicine</i> , <b>2002</b> , 32, 804-12	7.8	308
373	Telomere-binding protein TRF2 binds to and stimulates the Werner and Bloom syndrome helicases. Journal of Biological Chemistry, <b>2002</b> , 277, 41110-9	5.4	292
372	NAD Replenishment Improves Lifespan and Healthspan in Ataxia Telangiectasia Models via Mitophagy and DNA Repair. <i>Cell Metabolism</i> , <b>2016</b> , 24, 566-581	24.6	273
371	The mechanics of base excision repair, and its relationship to aging and disease. <i>DNA Repair</i> , <b>2007</b> , 6, 544-59	4.3	259
370	Functional and physical interaction between WRN helicase and human replication protein A. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 18341-50	5.4	248

369	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. Cell Metabolism, 2016, 23, 1093-	1214162	245
368	Replication protein A physically interacts with the Bloom@syndrome protein and stimulates its helicase activity. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 23500-8	5.4	239
367	Repair of mitochondrial DNA after various types of DNA damage in Chinese hamster ovary cells. <i>Carcinogenesis</i> , <b>1992</b> , 13, 1967-73	4.6	239
366	DNA repair deficiency in neurodegeneration. <i>Progress in Neurobiology</i> , <b>2011</b> , 94, 166-200	10.9	235
365	A high-fat diet and NAD(+) activate Sirt1 to rescue premature aging in cockayne syndrome. <i>Cell Metabolism</i> , <b>2014</b> , 20, 840-855	24.6	232
364	SIRT6 stabilizes DNA-dependent protein kinase at chromatin for DNA double-strand break repair. <i>Aging</i> , <b>2009</b> , 1, 109-21	5.6	230
363	Nuclear DNA damage signalling to mitochondria in ageing. <i>Nature Reviews Molecular Cell Biology</i> , <b>2016</b> , 17, 308-21	48.7	222
362	NAD in Aging: Molecular Mechanisms and Translational Implications. <i>Trends in Molecular Medicine</i> , <b>2017</b> , 23, 899-916	11.5	217
361	Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer.  Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8822-7	11.5	213
<b>3</b> 60	Defective DNA base excision repair in brain from individuals with Alzheimer@ disease and amnestic mild cognitive impairment. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 5545-55	20.1	210
359	The Werner syndrome protein operates in base excision repair and cooperates with DNA polymerase beta. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 745-54	20.1	205
358	Mitochondrial SIRT3 Mediates Adaptive Responses of Neurons to Exercise and Metabolic and Excitatory Challenges. <i>Cell Metabolism</i> , <b>2016</b> , 23, 128-42	24.6	203
357	Ku complex interacts with and stimulates the Werner protein. <i>Genes and Development</i> , <b>2000</b> , 14, 907-91	<b>2</b> 12.6	202
356	A research agenda for aging in China in the 21st century. <i>Ageing Research Reviews</i> , <b>2015</b> , 24, 197-205	12	198
355	Rising from the RecQ-age: the role of human RecQ helicases in genome maintenance. <i>Trends in Biochemical Sciences</i> , <b>2008</b> , 33, 609-20	10.3	197
354	NAD supplementation normalizes key Alzheimer@features and DNA damage responses in a new AD mouse model with introduced DNA repair deficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E1876-E1885	11.5	195
353	Oxidative damage in telomeric DNA disrupts recognition by TRF1 and TRF2. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 1230-9	20.1	195
352	Protecting the mitochondrial powerhouse. <i>Trends in Cell Biology</i> , <b>2015</b> , 25, 158-70	18.3	194

351	DNA Damage, DNA Repair, Aging, and Neurodegeneration. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2015</b> , 5,	5.4	186
350	Repair pathways for processing of 8-oxoguanine in DNA by mammalian cell extracts. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 33811-6	5.4	181
349	Mitophagy in neurodegeneration and aging. Neurochemistry International, 2017, 109, 202-209	4.4	179
348	Role of DNA polymerase beta in the excision step of long patch mammalian base excision repair. Journal of Biological Chemistry, <b>1999</b> , 274, 13741-3	5.4	177
347	Removal of oxidative DNA damage via FEN1-dependent long-patch base excision repair in human cell mitochondria. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 4975-87	4.8	174
346	Mitochondrial DNA repair pathways. <i>Mutation Research DNA Repair</i> , <b>1999</b> , 434, 137-48		167
345	Human embryonic stem cells have enhanced repair of multiple forms of DNA damage. <i>Stem Cells</i> , <b>2008</b> , 26, 2266-74	5.8	166
344	FEN1 stimulation of DNA polymerase beta mediates an excision step in mammalian long patch base excision repair. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 4460-6	5.4	164
343	Increased hypermutation at G and C nucleotides in immunoglobulin variable genes from mice deficient in the MSH2 mismatch repair protein. <i>Journal of Experimental Medicine</i> , <b>1998</b> , 187, 1745-51	16.6	163
342	Mitochondrial DNA repair of oxidative damage in mammalian cells. <i>Gene</i> , <b>2002</b> , 286, 127-34	3.8	161
341	Repair of formamidopyrimidines in DNA involves different glycosylases: role of the OGG1, NTH1, and NEIL1 enzymes. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 40544-51	5.4	160
340	Human premature aging, DNA repair and RecQ helicases. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 7527-44	20.1	159
339	Roles of Werner syndrome protein in protection of genome integrity. <i>DNA Repair</i> , <b>2010</b> , 9, 331-44	4.3	156
338	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. <i>Cell Metabolism</i> , <b>2018</b> , 27, 667	'- <b>6</b> 7. <b>6</b> .e	4152
337	Cockayne syndrome group B protein prevents the accumulation of damaged mitochondria by promoting mitochondrial autophagy. <i>Journal of Experimental Medicine</i> , <b>2012</b> , 209, 855-69	16.6	152
336	Novel DNA mismatch-repair activity involving YB-1 in human mitochondria. <i>DNA Repair</i> , <b>2009</b> , 8, 704-19	4.3	149
335	Mitochondrial and nuclear DNA-repair capacity of various brain regions in mouse is altered in an age-dependent manner. <i>Neurobiology of Aging</i> , <b>2006</b> , 27, 1129-36	5.6	149
334	Gene specific DNA repair. <i>Carcinogenesis</i> , <b>1991</b> , 12, 1983-92	4.6	144

## (2000-2003)

333	Werner syndrome and the function of the Werner protein; what they can teach us about the molecular aging process. <i>Carcinogenesis</i> , <b>2003</b> , 24, 791-802	4.6	143
332	Human DNA polymerase beta initiates DNA synthesis during long-patch repair of reduced AP sites in DNA. <i>EMBO Journal</i> , <b>2001</b> , 20, 1477-82	13	142
331	The HRDC domain of BLM is required for the dissolution of double Holliday junctions. <i>EMBO Journal</i> , <b>2005</b> , 24, 2679-87	13	140
330	POT1 stimulates RecQ helicases WRN and BLM to unwind telomeric DNA substrates. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 32069-80	5.4	139
329	Cockayne syndrome: Clinical features, model systems and pathways. <i>Ageing Research Reviews</i> , <b>2017</b> , 33, 3-17	12	132
328	DNA damage, mutation and fine structure DNA repair in aging. <i>Mutation Research - DNAging</i> , <b>1995</b> , 338, 25-34		130
327	Werner protein is a target of DNA-dependent protein kinase in vivo and in vitro, and its catalytic activities are regulated by phosphorylation. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 18291-302	5.4	129
326	Base excision repair in nuclear and mitochondrial DNA. <i>Progress in Molecular Biology and Translational Science</i> , <b>2001</b> , 68, 285-97		129
325	Gene expression profiling in Werner syndrome closely resembles that of normal aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 12259-64	11.5	128
324	The clinical characteristics of Werner syndrome: molecular and biochemical diagnosis. <i>Human Genetics</i> , <b>2008</b> , 124, 369-77	6.3	127
323	Primary fibroblasts of Cockayne syndrome patients are defective in cellular repair of 8-hydroxyguanine and 8-hydroxyadenine resulting from oxidative stress. <i>FASEB Journal</i> , <b>2003</b> , 17, 668-7	<b>.</b> 2.9	127
322	Central role for the Werner syndrome protein/poly(ADP-ribose) polymerase 1 complex in the poly(ADP-ribosyl)ation pathway after DNA damage. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 8601-13	4.8	127
321	Cockayne syndrome group B cellular and biochemical functions. <i>American Journal of Human Genetics</i> , <b>2003</b> , 73, 1217-39	11	127
320	Interaction of human AP endonuclease 1 with flap endonuclease 1 and proliferating cell nuclear antigen involved in long-patch base excision repair. <i>Biochemistry</i> , <b>2001</b> , 40, 12639-44	3.2	125
319	An oxidative damage-specific endonuclease from rat liver mitochondria. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 27338-44	5.4	124
318	Mitochondrial DNA damage and repair in neurodegenerative disorders. <i>DNA Repair</i> , <b>2008</b> , 7, 1110-20	4.3	122
317	Mitochondrial DNA repair and association with agingan update. <i>Experimental Gerontology</i> , <b>2010</b> , 45, 478-88	4.5	120
316	Genomic heterogeneity of nucleotide excision repair. <i>Gene</i> , <b>2000</b> , 250, 15-30	3.8	118

315	The Cockayne Syndrome group B gene product is involved in general genome base excision repair of 8-hydroxyguanine in DNA. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 45772-9	5.4	117
314	The Werner syndrome protein is involved in RNA polymerase II transcription. <i>Molecular Biology of the Cell</i> , <b>1999</b> , 10, 2655-68	3.5	117
313	Cockayne syndrome group B protein promotes mitochondrial DNA stability by supporting the DNA repair association with the mitochondrial membrane. <i>FASEB Journal</i> , <b>2010</b> , 24, 2334-46	0.9	116
312	Oxidative DNA damage processing in nuclear and mitochondrial DNA. <i>Biochimie</i> , <b>1999</b> , 81, 155-60	4.6	113
311	The role of Cockayne Syndrome group B (CSB) protein in base excision repair and aging. <i>Mechanisms of Ageing and Development</i> , <b>2008</b> , 129, 441-8	5.6	111
310	Colocalization, physical, and functional interaction between Werner and Bloom syndrome proteins. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 22035-44	5.4	108
309	Enzymatic and DNA binding properties of purified WRN protein: high affinity binding to single-stranded DNA but not to DNA damage induced by 4NQO. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3557-	66 <sup>20.1</sup>	108
308	Repair of 8-oxoguanine in DNA is deficient in Cockayne syndrome group B cells. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 1365-8	20.1	107
307	A small molecule inhibitor of the BLM helicase modulates chromosome stability in human cells. <i>Chemistry and Biology</i> , <b>2013</b> , 20, 55-62		101
306	The mitochondrial transcription factor A functions in mitochondrial base excision repair. <i>DNA Repair</i> , <b>2010</b> , 9, 1080-9	4.3	99
305	Base excision repair capacity in mitochondria and nuclei: tissue-specific variations. <i>FASEB Journal</i> , <b>2002</b> , 16, 1895-902	0.9	99
304	Mitochondrial and nuclear DNA base excision repair are affected differently by caloric restriction. <i>FASEB Journal</i> , <b>2004</b> , 18, 595-7	0.9	97
303	Werner syndrome protein contains three structure-specific DNA binding domains. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 52997-3006	5.4	97
302	DNA repair and aging in mouse liver: 8-oxodG glycosylase activity increase in mitochondrial but not in nuclear extracts. <i>Free Radical Biology and Medicine</i> , <b>2001</b> , 30, 916-23	7.8	97
301	Unwinding of a DNA triple helix by the Werner and Bloom syndrome helicases. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 3024-30	5.4	97
300	BDNF and exercise enhance neuronal DNA repair by stimulating CREB-mediated production of apurinic/apyrimidinic endonuclease 1. <i>NeuroMolecular Medicine</i> , <b>2014</b> , 16, 161-174	4.6	96
299	The Werner syndrome protein stimulates DNA polymerase beta strand displacement synthesis via its helicase activity. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 22686-95	5.4	96
298	Cockayne syndrome B protein stimulates apurinic endonuclease 1 activity and protects against agents that introduce base excision repair intermediates. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, 4103-13	20.1	94

### (2018-2003)

297	WRN interacts physically and functionally with the recombination mediator protein RAD52. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 36476-86	5.4	94
296	Cooperation of the Cockayne syndrome group B protein and poly(ADP-ribose) polymerase 1 in the response to oxidative stress. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 7625-36	4.8	94
295	The role of DNA repair in brain related disease pathology. <i>DNA Repair</i> , <b>2013</b> , 12, 578-87	4.3	93
294	Linkage between Werner syndrome protein and the Mre11 complex via Nbs1. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 21169-76	5.4	93
293	Inhibition of the Bloom@and Werner@syndrome helicases by G-quadruplex interacting ligands. <i>Biochemistry</i> , <b>2001</b> , 40, 15194-202	3.2	93
292	DNA repair fine structure and its relations to genomic instability. <i>Carcinogenesis</i> , <b>1995</b> , 16, 2885-92	4.6	92
291	Factors that influence telomeric oxidative base damage and repair by DNA glycosylase OGG1. <i>DNA Repair</i> , <b>2011</b> , 10, 34-44	4.3	91
290	Mitochondrial repair of 8-oxoguanine is deficient in Cockayne syndrome group B. <i>Oncogene</i> , <b>2002</b> , 21, 8675-82	9.2	91
289	The processing of Holliday junctions by BLM and WRN helicases is regulated by p53. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 31980-7	5.4	91
288	The human Werner syndrome protein stimulates repair of oxidative DNA base damage by the DNA glycosylase NEIL1. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 26591-602	5.4	90
287	NAD augmentation restores mitophagy and limits accelerated aging in Werner syndrome. <i>Nature Communications</i> , <b>2019</b> , 10, 5284	17.4	89
286	Coordinate action of the helicase and 3Qto 5Qexonuclease of Werner syndrome protein. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 44677-87	5.4	87
285	Evidence that OGG1 glycosylase protects neurons against oxidative DNA damage and cell death under ischemic conditions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 680-92	7.3	84
284	p53 functions in the incorporation step in DNA base excision repair in mouse liver mitochondria. <i>Oncogene</i> , <b>2004</b> , 23, 6559-68	9.2	84
283	Mitochondrial endogenous oxidative damage has been overestimated. FASEB Journal, 2000, 14, 355-60	0.9	84
282	Cockayne syndrome group B protein stimulates repair of formamidopyrimidines by NEIL1 DNA glycosylase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 9270-9	5.4	83
281	RECQL4 localizes to mitochondria and preserves mitochondrial DNA integrity. Aging Cell, 2012, 11, 456-	<b>696</b> 9	82
<b>2</b> 80	Natural polyphenols as sirtuin 6 modulators. <i>Scientific Reports</i> , <b>2018</b> , 8, 4163	4.9	81

279	p53 Modulates the exonuclease activity of Werner syndrome protein. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 35093-102	5.4	80
278	RECQL4, the protein mutated in Rothmund-Thomson syndrome, functions in telomere maintenance. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 196-209	5.4	79
277	Stimulation of flap endonuclease-1 by the Bloom@syndrome protein. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 9847-56	5.4	79
276	Roles of the Werner syndrome protein in pathways required for maintenance of genome stability. <i>Experimental Gerontology</i> , <b>2002</b> , 37, 491-506	4.5	79
275	Ku heterodimer binds to both ends of the Werner protein and functional interaction occurs at the Werner N-terminus. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 3583-91	20.1	79
274	Tomatidine enhances lifespan and healthspan in C. elegans through mitophagy induction via the SKN-1/Nrf2 pathway. <i>Scientific Reports</i> , <b>2017</b> , 7, 46208	4.9	78
273	Junction of RecQ helicase biochemistry and human disease. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 18099-102	5.4	78
272	Functional crosstalk between hOgg1 and the helicase domain of Cockayne syndrome group B protein. <i>DNA Repair</i> , <b>2002</b> , 1, 913-27	4.3	77
271	Neurons efficiently repair glutamate-induced oxidative DNA damage by a process involving CREB-mediated up-regulation of apurinic endonuclease 1. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 28191-9	5.4	76
270	DNA polymerase deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 943-59	20.1	75
269	Pathways and functions of the Werner syndrome protein. <i>Mechanisms of Ageing and Development</i> , <b>2005</b> , 126, 79-86	5.6	75
268	Poly(ADP-ribose) polymerase 1 regulates both the exonuclease and helicase activities of the Werner syndrome protein. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 4003-14	20.1	74
267	Homogenous repair of singlet oxygen-induced DNA damage in differentially transcribed regions and strands of human mitochondrial DNA. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 662-8	20.1	74
266	Mitochondrial DNA, base excision repair and neurodegeneration. <i>DNA Repair</i> , <b>2008</b> , 7, 1098-109	4.3	73
265	Collaboration of Werner syndrome protein and BRCA1 in cellular responses to DNA interstrand cross-links. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, 2751-60	20.1	73
264	The cockayne syndrome group B gene product is involved in cellular repair of 8-hydroxyadenine in DNA. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 30832-7	5.4	73
263	Mitochondria-targeted Ogg1 and aconitase-2 prevent oxidant-induced mitochondrial DNA damage in alveolar epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 6165-76	5.4	72
262	The involvement of human RECQL4 in DNA double-strand break repair. <i>Aging Cell</i> , <b>2010</b> , 9, 358-71	9.9	72

#### (2004-1999)

261	Inhibition of RNA polymerase II transcription in human cell extracts by cisplatin DNA damage. <i>Biochemistry</i> , <b>1999</b> , 38, 6204-12	3.2	72
260	Werner syndrome protein participates in a complex with RAD51, RAD54, RAD54B and ATR in response to ICL-induced replication arrest. <i>Journal of Cell Science</i> , <b>2006</b> , 119, 5137-46	5.3	71
259	Direct and indirect roles of RECQL4 in modulating base excision repair capacity. <i>Human Molecular Genetics</i> , <b>2009</b> , 18, 3470-83	5.6	70
258	JNK Phosphorylates SIRT6 to Stimulate DNA Double-Strand Break Repair in Response to Oxidative Stress by Recruiting PARP1 to DNA Breaks. <i>Cell Reports</i> , <b>2016</b> , 16, 2641-2650	10.6	70
257	WRN is required for ATM activation and the S-phase checkpoint in response to interstrand cross-link-induced DNA double-strand breaks. <i>Molecular Biology of the Cell</i> , <b>2008</b> , 19, 3923-33	3.5	68
256	A nucleolar targeting sequence in the Werner syndrome protein resides within residues 949-1092. Journal of Cell Science, <b>2002</b> , 115, 3901-7	5.3	68
255	Reduced RNA polymerase II transcription in extracts of cockayne syndrome and xeroderma pigmentosum/Cockayne syndrome cells. <i>Nucleic Acids Research</i> , <b>1997</b> , 25, 3636-42	20.1	67
254	Oxidized guanine lesions and hOgg1 activity in lung cancer. <i>Oncogene</i> , <b>2005</b> , 24, 4496-508	9.2	67
253	Repair of 8-oxoG is slower in endogenous nuclear genes than in mitochondrial DNA and is without strand bias. <i>DNA Repair</i> , <b>2002</b> , 1, 261-73	4.3	67
252	Single-molecule imaging reveals a common mechanism shared by G-quadruplex-resolving helicases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 8448-53	11.5	66
251	Roles of RECQ helicases in recombination based DNA repair, genomic stability and aging. <i>Biogerontology</i> , <b>2009</b> , 10, 235-52	4.5	66
250	Regulation of WRN helicase activity in human base excision repair. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 53465-74	5.4	66
249	Aprataxin localizes to mitochondria and preserves mitochondrial function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 7437-42	11.5	65
248	Single nucleotide patch base excision repair is the major pathway for removal of thymine glycol from DNA in human cell extracts. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 11809-13	5.4	65
247	The transcriptional response after oxidative stress is defective in Cockayne syndrome group B cells. <i>Oncogene</i> , <b>2003</b> , 22, 1135-49	9.2	63
246	Werner syndrome protein phosphorylation by abl tyrosine kinase regulates its activity and distribution. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 6385-95	4.8	63
245	Genome instability in Alzheimer disease. Mechanisms of Ageing and Development, 2017, 161, 83-94	5.6	62
244	Werner syndrome cells escape hydrogen peroxide-induced cell proliferation arrest. <i>FASEB Journal</i> , <b>2004</b> , 18, 1970-2	0.9	62

243	Third complementarity-determining region of mutated VH immunoglobulin genes contains shorter V, D, J, P, and N components than non-mutated genes. <i>Immunology</i> , <b>2001</b> , 103, 179-87	7.8	62
242	DNA repair in the metallothionein gene increases with transcriptional activation. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 10021-30	20.1	62
241	Mitochondria in the signaling pathways that control longevity and health span. <i>Ageing Research Reviews</i> , <b>2019</b> , 54, 100940	12	59
240	Conserved helicase domain of human RecQ4 is required for strand annealing-independent DNA unwinding. <i>DNA Repair</i> , <b>2010</b> , 9, 796-804	4.3	59
239	Gene-specific nuclear and mitochondrial repair of formamidopyrimidine DNA glycosylase-sensitive sites in Chinese hamster ovary cells. <i>Mutation Research DNA Repair</i> , <b>1996</b> , 364, 183-92		59
238	RecQ helicases in DNA double strand break repair and telomere maintenance. <i>Mutation Research</i> - Fundamental and Molecular Mechanisms of Mutagenesis, <b>2012</b> , 736, 15-24	3.3	58
237	RECQL4 Promotes DNA End Resection in Repair of DNA Double-Strand Breaks. <i>Cell Reports</i> , <b>2016</b> , 16, 161-173	10.6	57
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198 197		20.1	42 41
	pigmentosum group A cells. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3153-8  A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. <i>Aging</i> , <b>2013</b> ,		
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197 196	pigmentosum group A cells. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3153-8  A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. <i>Aging</i> , <b>2013</b> , 5, 192-208  RECQ helicase RECQL4 participates in non-homologous end joining and interacts with the Ku complex. <i>Carcinogenesis</i> , <b>2014</b> , 35, 2415-24  RECQ1 is required for cellular resistance to replication stress and catalyzes strand exchange on	5.6 4.6	41
197 196 195	pigmentosum group A cells. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3153-8  A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. <i>Aging</i> , <b>2013</b> , 5, 192-208  RECQ helicase RECQL4 participates in non-homologous end joining and interacts with the Ku complex. <i>Carcinogenesis</i> , <b>2014</b> , 35, 2415-24  RECQ1 is required for cellular resistance to replication stress and catalyzes strand exchange on stalled replication fork structures. <i>Cell Cycle</i> , <b>2012</b> , 11, 4252-65  The Werner syndrome. A model for the study of human aging. <i>Annals of the New York Academy of</i>	5.6 4.6 4.7	41 40 40
197 196 195	A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. <i>Aging</i> , <b>2013</b> , 5, 192-208  RECQ helicase RECQL4 participates in non-homologous end joining and interacts with the Ku complex. <i>Carcinogenesis</i> , <b>2014</b> , 35, 2415-24  RECQ1 is required for cellular resistance to replication stress and catalyzes strand exchange on stalled replication fork structures. <i>Cell Cycle</i> , <b>2012</b> , 11, 4252-65  The Werner syndrome. A model for the study of human aging. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 908, 167-79  Gene expression responses to DNA damage are altered in human aging and in Werner Syndrome.	5.6 4.6 4.7 6.5	41 40 40 40
197 196 195 194	A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. <i>Aging</i> , <b>2013</b> , 5, 192-208  RECQ helicase RECQL4 participates in non-homologous end joining and interacts with the Ku complex. <i>Carcinogenesis</i> , <b>2014</b> , 35, 2415-24  RECQ1 is required for cellular resistance to replication stress and catalyzes strand exchange on stalled replication fork structures. <i>Cell Cycle</i> , <b>2012</b> , 11, 4252-65  The Werner syndrome. A model for the study of human aging. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 908, 167-79  Gene expression responses to DNA damage are altered in human aging and in Werner Syndrome. <i>Oncogene</i> , <b>2005</b> , 24, 5026-42  RECQL5 cooperates with Topoisomerase II alpha in DNA decatenation and cell cycle progression.	5.6 4.6 4.7 6.5	41 40 40 40 40

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99	Cockayne syndrome group B deficiency reduces H3K9me3 chromatin remodeler SETDB1 and exacerbates cellular aging. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 8548-8562	20.1	17
98	Lamin A/C promotes DNA base excision repair. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 11709-11728	20.1	17
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