Vilhelm A Bohr

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
386	Neurogenesis in Aging and Age-related Neurodegenerative Diseases.. *Ageing Research Reviews*, **2022**, 101636	12	4
385	Alteration of mitochondrial homeostasis is an early event in a model of human tauopathy. *Aging*, **2021**, 13, 23876-23894	5.6	3
384	A brain proteomic signature of incipient Alzheimer disease in young 4 carriers identifies novel drug targets. *Science Advances*, **2021**, 7, eabi8178	14.3	2
383	CDK2 phosphorylation of Werner protein (WRN) contributes to WRN DNA double-strand break repair pathway choice. *Aging Cell*, **2021**, 20, e13484	9.9	1
382	NEK1 deficiency affects mitochondrial functions and the transcriptome of key DNA repair pathways. *Mutagenesis*, **2021**, 36, 223-236	2.8	0
381	NAD supplementation prevents STING-induced senescence in ataxia telangiectasia by improving mitophagy. *Aging Cell*, **2021**, 20, e13329	9.9	18
380	DNA polymerase outperforms DNA polymerase in key mitochondrial base excision repair activities. *DNA Repair*, **2021**, 99, 103050	4.3	5
379	Skin Abnormalities in Disorders with DNA Repair Defects, Premature Aging, and Mitochondrial Dysfunction. *Journal of Investigative Dermatology*, **2021**, 141, 968-975	4.3	7
378	LEO1 is a partner for Cockayne syndrome protein B (CSB) in response to transcription-blocking DNA damage. *Nucleic Acids Research*, **2021**, 49, 6331-6346	20.1	2
377	Signaling by cGAS-STING in Neurodegeneration, Neuroinflammation, and Aging. *Trends in Neurosciences*, **2021**, 44, 83-96	13.3	21
376	Worldwide Studies on Cockayne Syndrome are Needed. *Neurology India*, **2021**, 69, 367-368	0.7	
375	Current and emerging roles of Cockayne syndrome group B (CSB) protein. *Nucleic Acids Research*, **2021**, 49, 2418-2434	20.1	11
374	Self-assembly of multi-component mitochondrial nucleoids via phase separation. *EMBO Journal*, **2021**, 40, e107165	13	14
373	Base excision repair causes age-dependent accumulation of single-stranded DNA breaks that contribute to Parkinson disease pathology. *Cell Reports*, **2021**, 36, 109668	10.6	4
372	NAD supplementation reduces neuroinflammation and cell senescence in a transgenic mouse model of Alzheimer disease via cGAS-STING. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	17
371	Olfactory dysfunction in aging and neurodegenerative diseases. *Ageing Research Reviews*, **2021**, 70, 101416	12	7
370	NAD augmentation with nicotinamide riboside improves lymphoid potential of Atm and old mice HSCs. *Npj Aging and Mechanisms of Disease*, **2021**, 7, 25	5.5	4

369	Molecular markers of DNA repair and brain metabolism correlate with cognition in centenarians.. *GeroScience*, **2021**, 44, 103	8.9	1
368	Cytosolic Self-DNA-A Potential Source of Chronic Inflammation in Aging.. *Cells*, **2021**, 10,	7.9	1
367	DNA damage and mitochondria in cancer and aging. *Carcinogenesis*, **2020**, 41, 1625-1634	4.6	18
366	Interaction between RECQL4 and OGG1 promotes repair of oxidative base lesion 8-oxoG and is regulated by SIRT1 deacetylase. *Nucleic Acids Research*, **2020**, 48, 6530-6546	20.1	9
365	DNA damage invokes mitophagy through a pathway involving Spata18. *Nucleic Acids Research*, **2020** , 48, 6611-6623	20.1	13
364	Hippocampal tau oligomerization early in tau pathology coincides with a transient alteration of mitochondrial homeostasis and DNA repair in a mouse model of tauopathy. *Acta Neuropathologica Communications*, **2020**, 8, 25	7.3	19
363	Short-term NAD supplementation prevents hearing loss in mouse models of Cockayne syndrome. *Npj Aging and Mechanisms of Disease*, **2020**, 6, 1	5.5	24
362	Cockayne syndrome group A and B proteins function in rRNA transcription through nucleolin regulation. *Nucleic Acids Research*, **2020**, 48, 2473-2485	20.1	22
361	Biological sex and DNA repair deficiency drive Alzheimer's disease via systemic metabolic remodeling and brain mitochondrial dysfunction. *Acta Neuropathologica*, **2020**, 140, 25-47	14.3	15
360	Mitophagy and DNA damage signaling in human aging. *Mechanisms of Ageing and Development*, **2020**, 186, 111207	5.6	24
359	The NAD-mitophagy axis in healthy longevity and in artificial intelligence-based clinical applications. *Mechanisms of Ageing and Development*, **2020**, 185, 111194	5.6	22
358	Spatial Transcriptomics Reveals Genes Associated with Dysregulated Mitochondrial Functions and Stress Signaling in Alzheimer Disease. *IScience*, **2020**, 23, 101556	6.1	18
357	Cockayne syndrome proteins CSA and CSB maintain mitochondrial homeostasis through NAD signaling. *Aging Cell*, **2020**, 19, e13268	9.9	14
356	Re-equilibration of imbalanced NAD metabolism ameliorates the impact of telomere dysfunction. *EMBO Journal*, **2020**, 39, e103420	13	16
355	Heterochromatin: an epigenetic point of view in aging. *Experimental and Molecular Medicine*, **2020**, 52, 1466-1474	12.8	28
354	Ageing as a risk factor for neurodegenerative disease. *Nature Reviews Neurology*, **2019**, 15, 565-581	15	634
353	NEIL1 stimulates neurogenesis and suppresses neuroinflammation after stress. *Free Radical Biology and Medicine*, **2019**, 141, 47-58	7.8	10
352	Loss of ARID1A in Tumor Cells Renders Selective Vulnerability to Combined Ionizing Radiation and PARP Inhibitor Therapy. *Clinical Cancer Research*, **2019**, 25, 5584-5594	12.9	44

351	Acetylation of Werner protein at K1127 and K1117 is important for nuclear trafficking and DNA repair. *DNA Repair*, **2019**, 79, 22-31	4.3	4
350	Senolytic therapy alleviates A-associated oligodendrocyte progenitor cell senescence and cognitive deficits in an Alzheimer disease model. *Nature Neuroscience*, **2019**, 22, 719-728	25.5	315
349	Mitophagy inhibits amyloid- and tau pathology and reverses cognitive deficits in models of Alzheimer disease. *Nature Neuroscience*, **2019**, 22, 401-412	25.5	546
348	Mitochondria in the signaling pathways that control longevity and health span. *Ageing Research Reviews*, **2019**, 54, 100940	12	59
347	Deletion of OGG1 Results in a Differential Signature of Oxidized Purine Base Damage in mtDNA Regions. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	6
346	Cockayne syndrome group B deficiency reduces H3K9me3 chromatin remodeler SETDB1 and exacerbates cellular aging. *Nucleic Acids Research*, **2019**, 47, 8548-8562	20.1	17
345	Lamin A/C promotes DNA base excision repair. *Nucleic Acids Research*, **2019**, 47, 11709-11728	20.1	17
344	Emerging Antitumor Activities of the Bitter Melon (Momordica charantia). *Current Protein and Peptide Science*, **2019**, 20, 296-301	2.8	6
343	Assessment of NADmetabolism in human cell cultures, erythrocytes, cerebrospinal fluid and primate skeletal muscle. *Analytical Biochemistry*, **2019**, 572, 1-8	3.1	14
342	Diminished OPA1 expression and impaired mitochondrial morphology and homeostasis in Aprataxin-deficient cells. *Nucleic Acids Research*, **2019**, 47, 4086-4110	20.1	13
341	NAD augmentation restores mitophagy and limits accelerated aging in Werner syndrome. *Nature Communications*, **2019**, 10, 5284	17.4	89
340	NAD+Metabolism in Aging and Cancer. *Annual Review of Cancer Biology*, **2019**, 3, 105-130	13.3	30
339	A high-throughput screen to identify novel small molecule inhibitors of the Werner Syndrome Helicase-Nuclease (WRN). *PLoS ONE*, **2019**, 14, e0210525	3.7	13
338	Toward understanding genomic instability, mitochondrial dysfunction and aging. *FEBS Journal*, **2019**, 286, 1058-1073	5.7	32
337	Sarcopenia, Aging and Prospective Interventional Strategies. *Current Medicinal Chemistry*, **2018**, 25, 5588-5596	4.5	23
336	Nicotinamide Improves Aspects of Healthspan, but Not Lifespan, in Mice. *Cell Metabolism*, **2018**, 27, 667-676.e4	27.6	152
335	Natural polyphenols as sirtuin 6 modulators. *Scientific Reports*, **2018**, 8, 4163	4.9	81
334	Multiple RPAs make WRN syndrome protein a superhelicase. *Nucleic Acids Research*, **2018**, 46, 4689-4698	20.1	20

333	NAD supplementation normalizes key Alzheimer's features and DNA damage responses in a new AD mouse model with introduced DNA repair deficiency. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1876-E1885	11.5	195
332	Enhanced mitochondrial DNA repair of the common disease-associated variant, Ser326Cys, of hOGG1 through small molecule intervention. *Free Radical Biology and Medicine*, **2018**, 124, 149-162	7.8	6
331	Regulation of the Intranuclear Distribution of the Cockayne Syndrome Proteins. *Scientific Reports*, **2018**, 8, 17490	4.9	6
330	Acidic domain of WRNp is critical for autophagy and up-regulates age associated proteins. *DNA Repair*, **2018**, 68, 1-11	4.3	5
329	Genome instability in Alzheimer disease. *Mechanisms of Ageing and Development*, **2017**, 161, 83-94	5.6	62
328	Mitophagy in neurodegeneration and aging. *Neurochemistry International*, **2017**, 109, 202-209	4.4	179
327	Mitophagy and Alzheimer's Disease: Cellular and Molecular Mechanisms. *Trends in Neurosciences*, **2017**, 40, 151-166	13.3	330
326	Tomatidine enhances lifespan and healthspan in C. elegans through mitophagy induction via the SKN-1/Nrf2 pathway. *Scientific Reports*, **2017**, 7, 46208	4.9	78
325	NAP1L1 accelerates activation and decreases pausing to enhance nucleosome remodeling by CSB. *Nucleic Acids Research*, **2017**, 45, 4696-4707	20.1	18
324	Base Excision Repair in Aging **2017**, 773-803		1
323	NAD: The convergence of DNA repair and mitophagy. *Autophagy*, **2017**, 13, 442-443	10.2	28
322	Rev1 contributes to proper mitochondrial function via the PARP-NAD-SIRT1-PGC1 axis. *Scientific Reports*, **2017**, 7, 12480	4.9	12
321	NAD in Aging: Molecular Mechanisms and Translational Implications. *Trends in Molecular Medicine*, **2017**, 23, 899-916	11.5	217
320	Cell cycle-dependent phosphorylation regulates RECQL4 pathway choice and ubiquitination in DNA double-strand break repair. *Nature Communications*, **2017**, 8, 2039	17.4	49
319	In Vitro and In Vivo Detection of Mitophagy in Human Cells, C. Elegans, and Mice. *Journal of Visualized Experiments*, **2017**,	1.6	18
318	Cockayne syndrome: Clinical features, model systems and pathways. *Ageing Research Reviews*, **2017**, 33, 3-17	12	132
317	DNA polymerase decrement triggers death of olfactory bulb cells and impairs olfaction in a mouse model of Alzheimer's disease. *Aging Cell*, **2017**, 16, 162-172	9.9	25
316	The Identification of a SIRT6 Activator from Brown Algae Fucus distichus. *Marine Drugs*, **2017**, 15,	6	28

315	Recent Advances in Understanding Werner Syndrome. *F1000Research*, **2017**, 6, 1779	3.6	45
314	Single-molecule imaging reveals a common mechanism shared by G-quadruplex-resolving helicases. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8448-53	11.5	66
313	A ketogenic diet accelerates neurodegeneration in mice with induced mitochondrial DNA toxicity in the forebrain. *Neurobiology of Aging*, **2016**, 48, 34-47	5.6	22
312	Active Control of Repetitive Structural Transitions between Replication Forks and Holliday Junctions by Werner Syndrome Helicase. *Structure*, **2016**, 24, 1292-1300	5.2	8
311	RECQL4 Promotes DNA End Resection in Repair of DNA Double-Strand Breaks. *Cell Reports*, **2016**, 16, 161-173	10.6	57
310	Acquired Localized Cutis Laxa due to Increased Elastin Turnover. *Case Reports in Dermatology*, **2016**, 8, 42-51	1.1	5
309	Cockayne syndrome group A and B proteins converge on transcription-linked resolution of non-B DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12502-12507	11.5	56
308	RECQL4 helicase has oncogenic potential in sporadic breast cancers. *Journal of Pathology*, **2016**, 238, 495-501	9.4	29
307	Effects of Sex, Strain, and Energy Intake on Hallmarks of Aging in Mice. *Cell Metabolism*, **2016**, 23, 1093-1112	24.2	245
306	Nuclear DNA damage signalling to mitochondria in ageing. *Nature Reviews Molecular Cell Biology*, **2016**, 17, 308-21	48.7	222
305	RECQL5 has unique strand annealing properties relative to the other human RecQ helicase proteins. *DNA Repair*, **2016**, 37, 53-66	4.3	13
304	Clinicopathological and prognostic significance of RECQL5 helicase expression in breast cancers. *Carcinogenesis*, **2016**, 37, 63-71	4.6	25
303	Mitochondrial SIRT3 Mediates Adaptive Responses of Neurons to Exercise and Metabolic and Excitatory Challenges. *Cell Metabolism*, **2016**, 23, 128-42	24.6	203
302	Camptothecin targets WRN protein: mechanism and relevance in clinical breast cancer. *Oncotarget*, **2016**, 7, 13269-84	3.3	31
301	WRN regulates pathway choice between classical and alternative non-homologous end joining. *Nature Communications*, **2016**, 7, 13785	17.4	57
300	JNK Phosphorylates SIRT6 to Stimulate DNA Double-Strand Break Repair in Response to Oxidative Stress by Recruiting PARP1 to DNA Breaks. *Cell Reports*, **2016**, 16, 2641-2650	10.6	70
299	NAD Replenishment Improves Lifespan and Healthspan in Ataxia Telangiectasia Models via Mitophagy and DNA Repair. *Cell Metabolism*, **2016**, 24, 566-581	24.6	273
298	Partial loss of the DNA repair scaffolding protein, Xrcc1, results in increased brain damage and reduced recovery from ischemic stroke in mice. *Neurobiology of Aging*, **2015**, 36, 2319-2330	5.6	15

297	Regulation of the human Suv3 helicase on DNA by inorganic cofactors. *Biochimie*, **2015**, 108, 160-8	4.6	1
296	Increased deoxythymidine triphosphate levels is a feature of relative cognitive decline. *Mitochondrion*, **2015**, 25, 34-7	4.9	8
295	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, 3974-89	4.8	12
294	DNA Damage, DNA Repair, Aging, and Neurodegeneration. *Cold Spring Harbor Perspectives in Medicine*, **2015**, 5,	5.4	186
293	A research agenda for aging in China in the 21st century. *Ageing Research Reviews*, **2015**, 24, 197-205	12	198
292	Protecting the mitochondrial powerhouse. *Trends in Cell Biology*, **2015**, 25, 158-70	18.3	194
291	Slow mitochondrial repair of 5Q-AMP renders mtDNA susceptible to damage in APTX deficient cells. *Scientific Reports*, **2015**, 5, 12876	4.9	20
290	Human exonuclease 1 (EXO1) activity characterization and its function on flap structures. *Bioscience Reports*, **2015**, 35,	4.1	29
289	A novel method for determining human ex vivo submaximal skeletal muscle mitochondrial function. *Journal of Physiology*, **2015**, 593, 3991-4010	3.9	11
288	The role of DNA base excision repair in brain homeostasis and disease. *DNA Repair*, **2015**, 32, 172-179	4.3	23
287	CSB interacts with SNM1A and promotes DNA interstrand crosslink processing. *Nucleic Acids Research*, **2015**, 43, 247-58	20.1	36
286	SLX4 contributes to telomere preservation and regulated processing of telomeric joint molecule intermediates. *Nucleic Acids Research*, **2015**, 43, 5912-23	20.1	42
285	The DNA structure and sequence preferences of WRN underlie its function in telomeric recombination events. *Nature Communications*, **2015**, 6, 8331	17.4	10
284	The impact of base excision DNA repair in age-related neurodegenerative diseases. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2015**, 776, 31-9	3.3	43
283	Loss of NEIL1 causes defects in olfactory function in mice. *Neurobiology of Aging*, **2015**, 36, 1007-12	5.6	11
282	Asbestos-induced pulmonary fibrosis is augmented in 8-oxoguanine DNA glycosylase knockout mice. *American Journal of Respiratory Cell and Molecular Biology*, **2015**, 52, 25-36	5.7	38
281	DNA polymerase □deficiency leads to neurodegeneration and exacerbates Alzheimer disease phenotypes. *Nucleic Acids Research*, **2015**, 43, 943-59	20.1	75
280	Defective mitochondrial respiration, altered dNTP pools and reduced AP endonuclease 1 activity in peripheral blood mononuclear cells of Alzheimer disease patients. *Aging*, **2015**, 7, 793-815	5.6	32

279	Di-(2-ethylhexyl) phthalate inhibits DNA replication leading to hyperPARylation, SIRT1 attenuation, and mitochondrial dysfunction in the testis. *Scientific Reports*, **2014**, 4, 6434	4.9	34
278	Overexpression of DNA ligase III in mitochondria protects cells against oxidative stress and improves mitochondrial DNA base excision repair. *DNA Repair*, **2014**, 16, 44-53	4.3	29
277	Defective mitophagy in XPA via PARP-1 hyperactivation and NAD(+)/SIRT1 reduction. *Cell*, **2014**, 157, 882-896	56.2	417
276	BDNF and exercise enhance neuronal DNA repair by stimulating CREB-mediated production of apurinic/apyrimidinic endonuclease 1. *NeuroMolecular Medicine*, **2014**, 16, 161-174	4.6	96
275	A high-fat diet and NAD(+) activate Sirt1 to rescue premature aging in cockayne syndrome. *Cell Metabolism*, **2014**, 20, 840-855	24.6	232
274	Transient overexpression of Werner protein rescues starvation induced autophagy in Werner syndrome cells. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2014**, 1842, 2387-94	6.9	13
273	The role of RecQ helicases in non-homologous end-joining. *Critical Reviews in Biochemistry and Molecular Biology*, **2014**, 49, 463-72	8.7	13
272	Contribution of defective mitophagy to the neurodegeneration in DNA repair-deficient disorders. *Autophagy*, **2014**, 10, 1468-9	10.2	34
271	Human longevity and variation in DNA damage response and repair: study of the contribution of sub-processes using competitive gene-set analysis. *European Journal of Human Genetics*, **2014**, 22, 1131-6	5.3	20
270	RECQ helicase RECQL4 participates in non-homologous end joining and interacts with the Ku complex. *Carcinogenesis*, **2014**, 35, 2415-24	4.6	40
269	Base excision DNA repair levels in mitochondrial lysates of Alzheimer's disease. *Neurobiology of Aging*, **2014**, 35, 1293-300	5.6	47
268	Cockayne Syndrome group B protein stimulates NEIL2 DNA glycosylase activity. *Mechanisms of Ageing and Development*, **2014**, 135, 1-14	5.6	29
267	Human RecQ helicases in DNA repair, recombination, and replication. *Annual Review of Biochemistry* , **2014**, 83, 519-52	29.1	348
266	Dynamics of the DNA repair proteins WRN and BLM in the nucleoplasm and nucleoli. *European Biophysics Journal*, **2014**, 43, 509-16	1.9	7
265	Mitochondria-targeted Ogg1 and aconitase-2 prevent oxidant-induced mitochondrial DNA damage in alveolar epithelial cells. *Journal of Biological Chemistry*, **2014**, 289, 6165-76	5.4	72
264	Catalytic activities of Werner protein are affected by adduction with 4-hydroxy-2-nonenal. *Nucleic Acids Research*, **2014**, 42, 11119-35	20.1	10
263	Human RECQL1 participates in telomere maintenance. *Nucleic Acids Research*, **2014**, 42, 5671-88	20.1	32
262	Serines 440 and 467 in the Werner syndrome protein are phosphorylated by DNA-PK and affects its dynamics in response to DNA double strand breaks. *Aging*, **2014**, 6, 70-81	5.6	19

261	A small molecule inhibitor of the BLM helicase modulates chromosome stability in human cells. *Chemistry and Biology*, **2013**, 20, 55-62		101
260	The role of DNA repair in brain related disease pathology. *DNA Repair*, **2013**, 12, 578-87	4.3	93
259	Mitochondrial deficiency in Cockayne syndrome. *Mechanisms of Ageing and Development*, **2013**, 134, 275-83	5.6	52
258	Multiple interaction partners for Cockayne syndrome proteins: implications for genome and transcriptome maintenance. *Mechanisms of Ageing and Development*, **2013**, 134, 212-24	5.6	21
257	Functional deficit associated with a missense Werner syndrome mutation. *DNA Repair*, **2013**, 12, 414-21	4.3	14
256	The RECQL4 protein, deficient in Rothmund-Thomson syndrome is active on telomeric D-loops containing DNA metabolism blocking lesions. *DNA Repair*, **2013**, 12, 518-28	4.3	20
255	Human RECQL5: guarding the crossroads of DNA replication and transcription and providing backup capability. *Critical Reviews in Biochemistry and Molecular Biology*, **2013**, 48, 289-99	8.7	25
254	Modulation of DNA base excision repair during neuronal differentiation. *Neurobiology of Aging*, **2013**, 34, 1717-27	5.6	43
253	Base excision repair in the mammalian brain: implication for age related neurodegeneration. *Mechanisms of Ageing and Development*, **2013**, 134, 440-8	5.6	45
252	Site-specific noncovalent interaction of the biopolymer poly(ADP-ribose) with the Werner syndrome protein regulates protein functions. *ACS Chemical Biology*, **2013**, 8, 179-88	4.9	36
251	RECQL5 plays co-operative and complementary roles with WRN syndrome helicase. *Nucleic Acids Research*, **2013**, 41, 881-99	20.1	21
250	The RecQ helicase RECQL5 participates in psoralen-induced interstrand cross-link repair. *Carcinogenesis*, **2013**, 34, 2218-30	4.6	9
249	Regulatory interplay of Cockayne syndrome B ATPase and stress-response gene ATF3 following genotoxic stress. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E2261-70	11.5	31
248	A novel diagnostic tool reveals mitochondrial pathology in human diseases and aging. *Aging*, **2013**, 5, 192-208	5.6	41
247	Overview of DNA Repair Pathways **2013**, 1-24		
246	Xeroderma pigmentosum group A protein modulates mitophagy through regulation of mitochondrial-associated proteins. *FASEB Journal*, **2013**, 27, lb468	0.9	
245	Recruitment and retention dynamics of RECQL5 at DNA double strand break sites. *DNA Repair*, **2012**, 11, 624-35	4.3	27
244	Repair of persistent strand breaks in the mitochondrial genome. *Mechanisms of Ageing and Development*, **2012**, 133, 169-75	5.6	53

243	RECQL4 in genomic instability and aging. *Trends in Genetics*, **2012**, 28, 624-31	8.5	56
242	Sporadic Alzheimer disease fibroblasts display an oxidative stress phenotype. *Free Radical Biology and Medicine*, **2012**, 53, 1371-80	7.8	44
241	Mitochondrial base excision repair in mouse synaptosomes during normal aging and in a model of Alzheimer's disease. *Neurobiology of Aging*, **2012**, 33, 694-707	5.6	30
240	RECQL4 localizes to mitochondria and preserves mitochondrial DNA integrity. *Aging Cell*, **2012**, 11, 456-66	5.9	82
239	RecQ helicases in DNA double strand break repair and telomere maintenance. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **2012**, 736, 15-24	3.3	58
238	RECQ1 is required for cellular resistance to replication stress and catalyzes strand exchange on stalled replication fork structures. *Cell Cycle*, **2012**, 11, 4252-65	4.7	40
237	RAPADILINO RECQL4 mutant protein lacks helicase and ATPase activity. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2012**, 1822, 1727-34	6.9	17
236	Quantitative analysis of WRN exonuclease activity by isotope dilution mass spectrometry. *Mechanisms of Ageing and Development*, **2012**, 133, 575-9	5.6	5
235	DNA repair: front and center and not going away!. *Methods in Molecular Biology*, **2012**, 920, 1-6	1.4	
234	Age-related disease association of endogenous γH2AX foci in mononuclear cells derived from leukapheresis. *PLoS ONE*, **2012**, 7, e45728	3.7	23
233	Involvement of Werner syndrome protein in MUTYH-mediated repair of oxidative DNA damage. *Nucleic Acids Research*, **2012**, 40, 8449-59	20.1	21
232	The human RecQ helicases BLM and RECQL4 cooperate to preserve genome stability. *Nucleic Acids Research*, **2012**, 40, 6632-48	20.1	43
231	Cockayne syndrome group B protein prevents the accumulation of damaged mitochondria by promoting mitochondrial autophagy. *Journal of Experimental Medicine*, **2012**, 209, 855-69	16.6	152
230	RECQL4, the protein mutated in Rothmund-Thomson syndrome, functions in telomere maintenance. *Journal of Biological Chemistry*, **2012**, 287, 196-209	5.4	79
229	Endonuclease VIII-like 1 (NEIL1) promotes short-term spatial memory retention and protects from ischemic stroke-induced brain dysfunction and death in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 14948-53	11.5	54
228	Human RECQL5 participates in the removal of endogenous DNA damage. *Molecular Biology of the Cell*, **2012**, 23, 4273-85	3.5	27
227	RECQL5 cooperates with Topoisomerase II alpha in DNA decatenation and cell cycle progression. *Nucleic Acids Research*, **2012**, 40, 1621-35	20.1	39
226	Human Cockayne syndrome B protein reciprocally communicates with mitochondrial proteins and promotes transcriptional elongation. *Nucleic Acids Research*, **2012**, 40, 8392-405	20.1	49

225	Nucleolin inhibits G4 oligonucleotide unwinding by Werner helicase. *PLoS ONE*, **2012**, 7, e35229	3.7	22
224	DNA binding residues in the RQC domain of Werner protein are critical for its catalytic activities. *Aging*, **2012**, 4, 417-29	5.6	22
223	The helicase and ATPase activities of RECQL4 are compromised by mutations reported in three human patients. *Aging*, **2012**, 4, 790-802	5.6	10
222	DNA secondary structure of the released strand stimulates WRN helicase action on forked duplexes without coordinate action of WRN exonuclease. *Biochemical and Biophysical Research Communications*, **2011**, 411, 684-9	3.4	3
221	DNA repair deficiency in neurodegeneration. *Progress in Neurobiology*, **2011**, 94, 166-200	10.9	235
220	The human Suv3 helicase interacts with replication protein A and flap endonuclease 1 in the nucleus. *Biochemical Journal*, **2011**, 440, 293-300	3.8	16
219	Evidence that OGG1 glycosylase protects neurons against oxidative DNA damage and cell death under ischemic conditions. *Journal of Cerebral Blood Flow and Metabolism*, **2011**, 31, 680-92	7.3	84
218	Xeroderma pigmentosum and other diseases of human premature aging and DNA repair: molecules to patients. *Mechanisms of Ageing and Development*, **2011**, 132, 340-7	5.6	26
217	The excitatory neurotransmitter glutamate stimulates DNA repair to increase neuronal resiliency. *Mechanisms of Ageing and Development*, **2011**, 132, 405-11	5.6	51
216	Factors that influence telomeric oxidative base damage and repair by DNA glycosylase OGG1. *DNA Repair*, **2011**, 10, 34-44	4.3	91
215	Bi-directional routing of DNA mismatch repair protein human exonuclease 1 to replication foci and DNA double strand breaks. *DNA Repair*, **2011**, 10, 73-86	4.3	35
214	WRN helicase regulates the ATR-CHK1-induced S-phase checkpoint pathway in response to topoisomerase-I-DNA covalent complexes. *Journal of Cell Science*, **2011**, 124, 3967-79	5.3	38
213	Proteome-wide identification of WRN-interacting proteins in untreated and nuclease-treated samples. *Journal of Proteome Research*, **2011**, 10, 1216-27	5.6	34
212	Non-B DNA-forming sequences and WRN deficiency independently increase the frequency of base substitution in human cells. *Journal of Biological Chemistry*, **2011**, 286, 10017-26	5.4	27
211	Aprataxin localizes to mitochondria and preserves mitochondrial function. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7437-42	11.5	65
210	Metabolism, genomics, and DNA repair in the mouse aging liver. *Current Gerontology and Geriatrics Research*, **2011**, 2011, 859415	2.9	20
209	Cockayne syndrome, underlying molecular defects and p53. *Cell Cycle*, **2011**, 10, 3997-8	4.7	43
208	Characterization of RecQL4 biochemical and cellular functions. *FASEB Journal*, **2011**, 25, lb33	0.9	

207	The involvement of human RECQL4 in DNA double-strand break repair. *Aging Cell*, **2010**, 9, 358-71	9.9	72
206	Human RECQL5beta stimulates flap endonuclease 1. *Nucleic Acids Research*, **2010**, 38, 2904-16	20.1	20
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