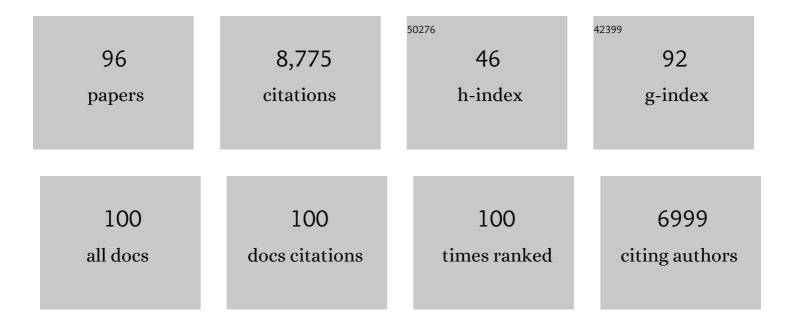
Orlando D Scharer

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8342087/publications.pdf Version: 2024-02-01



OPLANDO D SCHARER

#	Article	IF	CITATIONS
1	A combination of direct reversion and nucleotide excision repair counters the mutagenic effects of DNA carboxymethylation. DNA Repair, 2022, 110, 103262.	2.8	3
2	Polycarcin V induces DNA-damage response and enables the profiling of DNA-binding proteins. National Science Review, 2022, 9, .	9.5	1
3	Active DNA damage eviction by HLTF stimulates nucleotide excision repair. Molecular Cell, 2022, 82, 1343-1358.e8.	9.7	16
4	Transcriptional Perturbations of 2,6-Diaminopurine and 2-Aminopurine. ACS Chemical Biology, 2022, 17, 1672-1676.	3.4	5
5	New Synthetic Analogs of Nitrogen Mustard DNA Interstrand Cross-Links and Their Use to Study Lesion Bypass by DNA Polymerases. Chemical Research in Toxicology, 2021, 34, 1790-1799.	3.3	5
6	The complexity and regulation of repair of alkylation damage to nucleic acids. Critical Reviews in Biochemistry and Molecular Biology, 2021, 56, 125-136.	5.2	8
7	<i>ERCC1</i> mutations impede DNA damage repair and cause liver and kidney dysfunction in patients. Journal of Experimental Medicine, 2021, 218, .	8.5	18
8	PARP Inhibition in Prostate Cancer With Homologous Recombination Repair Alterations. JCO Precision Oncology, 2021, 5, 1639-1649.	3.0	7
9	Nucleotide excision repair leaves a mark on chromatin: DNA damage detection in nucleosomes. Cellular and Molecular Life Sciences, 2021, 78, 7925-7942.	5.4	20
10	A key interaction with RPA orients XPA in NER complexes. Nucleic Acids Research, 2020, 48, 2173-2188.	14.5	34
11	Envisioning how the prototypic molecular machine TFIIH functions in transcription initiation and DNA repair. DNA Repair, 2020, 96, 102972.	2.8	36
12	Repair, Removal, and Shutdown: It All Hinges on RNA Polymerase II Ubiquitylation. Cell, 2020, 180, 1039-1041.	28.9	9
13	Bypass of DNA interstrand crosslinks by a Rev1–DNA polymerase ζ complex. Nucleic Acids Research, 2020, 48, 8461-8473.	14.5	13
14	Structural basis of the fanconi anemia-associated mutations within the FANCA and FANCG complex. Nucleic Acids Research, 2020, 48, 3328-3342.	14.5	9
15	Single-molecule visualization reveals the damage search mechanism for the human NER protein XPC-RAD23B. Nucleic Acids Research, 2019, 47, 8337-8347.	14.5	46
16	Structural mechanism of DNA interstrand cross-link unhooking by the bacterial FAN1 nuclease. Journal of Biological Chemistry, 2018, 293, 6482-6496.	3.4	3
17	Molecular basis for damage recognition and verification by XPC-RAD23B and TFIIH in nucleotide excision repair. DNA Repair, 2018, 71, 33-42.	2.8	55
18	Mutagenicity of a Model DNA-Peptide Cross-Link in Human Cells: Roles of Translesion Synthesis DNA Polymerases. Chemical Research in Toxicology, 2017, 30, 669-677.	3.3	25

ORLANDO D SCHARER

#	Article	IF	CITATIONS
19	A new subâ€pathway of longâ€patch base excision repair involving 5′ gap formation. EMBO Journal, 2017, 36, 1605-1622.	7.8	56
20	Sensing and Processing of DNA Interstrand Crosslinks by the Mismatch Repair Pathway. Cell Reports, 2017, 21, 1375-1385.	6.4	43
21	Preparation of Stable Nitrogen Mustard DNA Interstrand Cross-Link Analogs for Biochemical and Cell Biological Studies. Methods in Enzymology, 2017, 591, 415-431.	1.0	8
22	ERCC1â€XPF endonuclease—positioned toÂcut. EMBO Journal, 2017, 36, 1993-1995.	7.8	9
23	FANCI and FANCD2 have common as well as independent functions during the cellular replication stress response. Nucleic Acids Research, 2017, 45, 11837-11857.	14.5	34
24	Drosophila DNA polymerase theta utilizes both helicase-like and polymerase domains during microhomology-mediated end joining and interstrand crosslink repair. PLoS Genetics, 2017, 13, e1006813.	3.5	44
25	Involvement of translesion synthesis DNA polymerases in DNA interstrand crosslink repair. DNA Repair, 2016, 44, 33-41.	2.8	56
26	The structure and duplex context of DNA interstrand crosslinks affects the activity of DNA polymerase η. Nucleic Acids Research, 2016, 44, gkw485.	14.5	27
27	Bypass of DNA-Protein Cross-links Conjugated to the 7-Deazaguanine Position of DNA by Translesion Synthesis Polymerases. Journal of Biological Chemistry, 2016, 291, 23589-23603.	3.4	33
28	FANCD2-associated Nuclease 1, but Not Exonuclease 1 or Flap Endonuclease 1, Is Able to Unhook DNA Interstrand Cross-links in Vitro. Journal of Biological Chemistry, 2015, 290, 22602-22611.	3.4	37
29	FANCJ Localization by Mismatch Repair Is Vital to Maintain Genomic Integrity after UV Irradiation. Cancer Research, 2014, 74, 932-944.	0.9	26
30	Synthesis of structurally diverse major groove DNA interstrand crosslinks using three different aldehyde precursors. Nucleic Acids Research, 2014, 42, 7429-7435.	14.5	27
31	Mouse SLX4 Is a Tumor Suppressor that Stimulates the Activity of the Nuclease XPF-ERCC1 in DNA Crosslink Repair. Molecular Cell, 2014, 54, 472-484.	9.7	126
32	Synthesis of Sequence-Specific DNA–Protein Conjugates via a Reductive Amination Strategy. Bioconjugate Chemistry, 2013, 24, 1496-1506.	3.6	47
33	Nucleotide Excision Repair in Eukaryotes. Cold Spring Harbor Perspectives in Biology, 2013, 5, a012609-a012609.	5.5	597
34	Mutations in ERCC4, Encoding the DNA-Repair Endonuclease XPF, Cause Fanconi Anemia. American Journal of Human Genetics, 2013, 92, 800-806.	6.2	272
35	Advances in Understanding the Complex Mechanisms of DNA Interstrand Cross-Link Repair. Cold Spring Harbor Perspectives in Biology, 2013, 5, a012732-a012732.	5.5	196
36	Interconverting Conformations of Slipped-DNA Junctions Formed by Trinucleotide Repeats Affect Repair Outcome. Biochemistry, 2013, 52, 773-785.	2.5	32

#	Article	IF	CITATIONS
37	Repair of cisplatin-induced DNA interstrand crosslinks by a replication-independent pathway involving transcription-coupled repair and translesion synthesis. Nucleic Acids Research, 2012, 40, 8953-8964.	14.5	142
38	Lack of recognition by global-genome nucleotide excision repair accounts for the high mutagenicity and persistence of aristolactam-DNA adducts. Nucleic Acids Research, 2012, 40, 2494-2505.	14.5	94
39	Construction of Plasmids Containing Site-Specific DNA Interstrand Cross-Links for Biochemical and Cell Biological Studies. Methods in Molecular Biology, 2012, 920, 203-219.	0.9	29
40	The Efficiencies of Damage Recognition and Excision Correlate with Duplex Destabilization Induced by Acetylaminofluorene Adducts in Human Nucleotide Excision Repair. Chemical Research in Toxicology, 2012, 25, 2462-2468.	3.3	34
41	Alkyltransferase-like Proteins: Brokers Dealing with Alkylated DNA Bases. Molecular Cell, 2012, 47, 3-4.	9.7	5
42	Replication-Coupled DNA Interstrand Cross-Link Repair in Xenopus Egg Extracts. Methods in Molecular Biology, 2012, 920, 221-243.	0.9	30
43	Synthesis of DNA Interstrand Crossâ€Links Using a Photocaged Nucleobase. Angewandte Chemie - International Edition, 2012, 51, 3466-3469.	13.8	29
44	Multiple DNA Binding Domains Mediate the Function of the ERCC1-XPF Protein in Nucleotide Excision Repair. Journal of Biological Chemistry, 2012, 287, 21846-21855.	3.4	29
45	Selective Bypass of a Lagging Strand Roadblock by the Eukaryotic Replicative DNA Helicase. Cell, 2011, 146, 931-941.	28.9	317
46	Multistep damage recognition, pathway coordination and connections to transcription, damage signaling, chromatin structure, cancer and aging: Current perspectives on the nucleotide excision repair pathway. DNA Repair, 2011, 10, 667.	2.8	10
47	Regulation of endonuclease activity in human nucleotide excision repair. DNA Repair, 2011, 10, 722-729.	2.8	135
48	Structure-dependent bypass of DNA interstrand crosslinks by translesion synthesis polymerases. Nucleic Acids Research, 2011, 39, 7455-7464.	14.5	74
49	Using synthetic DNA interstrand crosslinks to elucidate repair pathways and identify new therapeutic targets for cancer chemotherapy. Cellular and Molecular Life Sciences, 2010, 67, 3683-3697.	5.4	58
50	Translesion DNA synthesis polymerases in DNA interstrand crosslink repair. Environmental and Molecular Mutagenesis, 2010, 51, 552-566.	2.2	103
51	Synthesis and Molecular Modeling of a Nitrogen Mustard DNA Interstrand Crosslink. Chemistry - A European Journal, 2010, 16, 12100-12103.	3.3	30
52	The XPA-binding domain of ERCC1 Is Required for Nucleotide Excision Repair but Not Other DNA Repair Pathways. Journal of Biological Chemistry, 2010, 285, 3705-3712.	3.4	97
53	Mislocalization of XPF-ERCC1 Nuclease Contributes to Reduced DNA Repair in XP-F Patients. PLoS Genetics, 2010, 6, e1000871.	3.5	57
54	Coordination of dual incision and repair synthesis in human nucleotide excision repair. EMBO Journal, 2009, 28, 1111-1120.	7.8	223

ORLANDO D SCHARER

#	Article	IF	CITATIONS
55	Wedging out DNA damage. Nature Structural and Molecular Biology, 2009, 16, 102-104.	8.2	15
56	Generation of DNA Interstrand Cross-Links by Post-Synthetic Reductive Amination. Organic Letters, 2009, 11, 661-664.	4.6	71
57	Mechanism of Replication-Coupled DNA Interstrand Crosslink Repair. Cell, 2009, 137, 972.	28.9	1
58	The Fanconi Anemia Pathway Promotes Replication-Dependent DNA Interstrand Cross-Link Repair. Science, 2009, 326, 1698-1701.	12.6	454
59	Structure-Specific Endonucleases in DNA Repair. Chimia, 2009, 63, 753-757.	0.6	0
60	A Molecular Basis for Damage Recognition in Eukaryotic Nucleotide Excision Repair. ChemBioChem, 2008, 9, 21-23.	2.6	14
61	Crosslinking of nucleotide excision repair proteins with DNA containing photoreactive damages. Bioorganic Chemistry, 2008, 36, 77-84.	4.1	17
62	Interaction of nucleotide excision repair factors XPC-HR23B, XPA, and RPA with damaged DNA. Biochemistry (Moscow), 2008, 73, 886-896.	1.5	30
63	The molecular basis for different disease states caused by mutations in TFIIH and XPG. DNA Repair, 2008, 7, 339-344.	2.8	39
64	Mechanism of Replication-Coupled DNA Interstrand Crosslink Repair. Cell, 2008, 134, 969-980.	28.9	443
65	XPG: Its Products and Biological Roles. Advances in Experimental Medicine and Biology, 2008, 637, 83-92.	1.6	49
66	Domain swapping between FEN-1 and XPG defines regions in XPG that mediate nucleotide excision repair activity and substrate specificity. Nucleic Acids Research, 2007, 35, 3053-3063.	14.5	41
67	Crosslinking of the NER damage recognition proteins XPC-HR23B, XPA and RPA to photoreactive probes that mimic DNA damages. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 781-789.	2.4	30
68	Achieving Broad Substrate Specificity in Damage Recognition by Binding Accessible Nondamaged DNA. Molecular Cell, 2007, 28, 184-186.	9.7	32
69	Structural basis for the recruitment of ERCC1-XPF to nucleotide excision repair complexes by XPA. EMBO Journal, 2007, 26, 4768-4776.	7.8	132
70	Molecular Mechanisms of Mammalian Global Genome Nucleotide Excision Repair. Chemical Reviews, 2006, 106, 253-276.	47.7	551
71	A modified thymine for the synthesis of site-specific thymine-guanine DNA interstrand crosslinks. Nucleic Acids Research, 2006, 34, 4458-4466.	14.5	22
72	DNA Interstrand Crosslinks: Natural and Drug-Induced DNA Adducts that Induce Unique Cellular Responses. ChemBioChem, 2005, 6, 27-32.	2.6	162

ORLANDO D SCHARER

#	Article	IF	CITATIONS
73	The Spacer Region of XPG Mediates Recruitment to Nucleotide Excision Repair Complexes and Determines Substrate Specificity. Journal of Biological Chemistry, 2005, 280, 7030-7037.	3.4	61
74	Crystal structure and DNA binding functions of ERCC1, a subunit of the DNA structure-specific endonuclease XPF-ERCC1. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11236-11241.	7.1	146
75	Site-specific incorporation of N-(deoxyguanosin-8-yl)-2-acetylaminofluorene (dG-AAF) into oligonucleotides using modified 'ultra-mild' DNA synthesis. Nucleic Acids Research, 2005, 33, 1961-1969.	14.5	53
76	Ordered Conformational Changes in Damaged DNA Induced by Nucleotide Excision Repair Factors. Journal of Biological Chemistry, 2004, 279, 19074-19083.	3.4	128
77	Chemistry and Biology of DNA Repair. Angewandte Chemie - International Edition, 2003, 42, 2946-2974.	13.8	343
78	Structural Determinants for Substrate Binding and Catalysis by the Structure-specific Endonuclease XPG. Journal of Biological Chemistry, 2003, 278, 19500-19508.	3.4	69
79	Mammalian Rad51C contributes to DNA cross-link resistance, sister chromatid cohesion and genomic stability. Nucleic Acids Research, 2002, 30, 2172-2182.	14.5	135
80	Preparation of C8-Amine and Acetylamine Adducts of 2â€~-Deoxyguanosine Suitably Protected for DNA Synthesis. Organic Letters, 2002, 4, 4205-4208.	4.6	64
81	The active site of the DNA repair endonuclease XPF-ERCC1 forms a highly conserved nuclease motif. EMBO Journal, 2002, 21, 2045-2053.	7.8	169
82	Recent progress in the biology, chemistry and structural biology of DNA glycosylases. BioEssays, 2001, 23, 270-281.	2.5	224
83	Crystal structure of a thwarted mismatch glycosylase DNA repair complex. EMBO Journal, 1999, 18, 6599-6609.	7.8	122
84	Single-molecule manipulation of double-stranded DNA using optical tweezers: Interaction studies of DNA with RecA and YOYO-1. Cytometry, 1999, 36, 200-208.	1.8	137
85	Crystal Structure of a Human Alkylbase-DNA Repair Enzyme Complexed to DNA. Cell, 1998, 95, 249-258.	28.9	284
86	Specific Binding of a Designed Pyrrolidine Abasic Site Analog to Multiple DNA Glycosylases. Journal of Biological Chemistry, 1998, 273, 8592-8597.	3.4	93
87	Elements in abasic site recognition by the major human and Escherichia coli apurinic/apyrimidinic endonucleases. Nucleic Acids Research, 1998, 26, 2771-2778.	14.5	96
88	The Role of Base Flipping in Damage Recognition and Catalysis by T4 Endonuclease V. Journal of Biological Chemistry, 1997, 272, 27210-27217.	3.4	61
89	Investigation of the mechanisms of DNA binding of the human G/T glycosylase using designed inhibitors. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 4878-4883.	7.1	76
90	Unusually Strong Binding of a Designed Transition-State Analog to a Base-Excision DNA Repair Protein. Journal of the American Chemical Society, 1997, 119, 7865-7866.	13.7	58

#	Article	IF	CITATIONS
91	Chemical approaches toward understanding base excision DNA repair. Current Opinion in Chemical Biology, 1997, 1, 526-531.	6.1	15
92	Structural Basis for the Excision Repair of Alkylation-Damaged DNA. Cell, 1996, 86, 321-329.	28.9	258
93	Cloning of a yeast 8-oxoguanine DNA glycosylase reveals the existence of a base-excision DNA-repair protein superfamily. Current Biology, 1996, 6, 968-980.	3.9	447
94	Structural Determinants for Specific Recognition by T4 Endonuclease V. Journal of Biological Chemistry, 1996, 271, 32147-32152.	3.4	27
95	A Designed Inhibitor of Base-Excision DNA Repair. Journal of the American Chemical Society, 1995, 117, 10781-10782.	13.7	58
96	Specific binding of the DNA repair enzyme AlkA to a pyrrolidine-based inhibitor. Journal of the American Chemical Society, 1995, 117, 6623-6624.	13.7	54