

# Robert W Sobol

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

138  
papers

7,855  
citations

47  
h-index

86  
g-index

162  
ext. papers

8,681  
ext. citations

7.7  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
138	Double-strand breaks: When DNA repair events accidentally meet.. <i>DNA Repair</i> , <b>2022</b> , 112, 103303	4.3	0
137	NAD bioavailability mediates PARG inhibition-induced replication arrest, intra S-phase checkpoint and apoptosis in glioma stem cells. <i>NAR Cancer</i> , <b>2021</b> , 3, zcab044	5.2	2
136	Temporal dynamics of base excision/single-strand break repair protein complex assembly/disassembly are modulated by the PARP/NAD/SIRT6 axis. <i>Cell Reports</i> , <b>2021</b> , 37, 109917	10.6	7
135	Primary saturation of $\beta$ -unsaturated carbonyl containing fatty acids does not abolish electrophilicity. <i>Chemico-Biological Interactions</i> , <b>2021</b> , 350, 109689	5	0
134	46920 Engagement and co-creation in a DNA integrity cohort study. <i>Journal of Clinical and Translational Science</i> , <b>2021</b> , 5, 75-76	0.4	
133	Exploiting DNA Endonucleases to Advance Mechanisms of DNA Repair. <i>Biology</i> , <b>2021</b> , 10,	4.9	1
132	SON drives oncogenic RNA splicing in glioblastoma by regulating PTBP1/PTBP2 switching and RBFOX2 activity. <i>Nature Communications</i> , <b>2021</b> , 12, 5551	17.4	0
131	CometChip enables parallel analysis of multiple DNA repair activities. <i>DNA Repair</i> , <b>2021</b> , 106, 103176	4.3	2
130	DNA repair   DNA Damage: Alkylation <b>2021</b> , 218-231		0
129	A specific inhibitor of ALDH1A3 regulates retinoic acid biosynthesis in glioma stem cells.. <i>Communications Biology</i> , <b>2021</b> , 4, 1420	6.7	3
128	Extracellular NAD enhances PARP-dependent DNA repair capacity independently of CD73 activity. <i>Scientific Reports</i> , <b>2020</b> , 10, 651	4.9	28
127	NAD-mediated regulation of mammalian base excision repair. <i>DNA Repair</i> , <b>2020</b> , 93, 102930	4.3	8
126	Regulation of ALT-associated homology-directed repair by polyADP-ribosylation. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 1152-1164	17.6	14
125	Thymine DNA glycosylase as a novel target for melanoma. <i>Oncogene</i> , <b>2019</b> , 38, 3710-3728	9.2	18
124	Stability and sub-cellular localization of DNA polymerase $\beta$ s regulated by interactions with NQO1 and XRCC1 in response to oxidative stress. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, 6269-6286	20.1	9
123	Mechanisms of MTH1 inhibition-induced DNA strand breaks: The slippery slope from the oxidized nucleotide pool to genotoxic damage. <i>DNA Repair</i> , <b>2019</b> , 77, 18-26	4.3	13
122	Immunoregulatory protein B7-H3 regulates cancer stem cell enrichment and drug resistance through MVP-mediated MEK activation. <i>Oncogene</i> , <b>2019</b> , 38, 88-102	9.2	36

121	Modification of the base excision repair enzyme MBD4 by the small ubiquitin-like molecule SUMO1. <i>DNA Repair</i> , <b>2019</b> , 82, 102687	4.3	2
120	Application of the CometChip platform to assess DNA damage in field-collected blood samples from turtles. <i>Environmental and Molecular Mutagenesis</i> , <b>2018</b> , 59, 322-333	3.2	6
119	Next generation high throughput DNA damage detection platform for genotoxic compound screening. <i>Scientific Reports</i> , <b>2018</b> , 8, 2771	4.9	51
118	DNA Repair Molecular Beacon assay: a platform for real-time functional analysis of cellular DNA repair capacity. <i>Oncotarget</i> , <b>2018</b> , 9, 31719-31743	3.3	16
117	Camptothecin Efficacy to Poison Top1 Is Altered by Bisphenol A in Mouse Embryonic Fibroblasts. <i>Chemical Research in Toxicology</i> , <b>2018</b> , 31, 510-519	4	9
116	Differential role of base excision repair proteins in mediating cisplatin cytotoxicity. <i>DNA Repair</i> , <b>2017</b> , 51, 46-59	4.3	26
115	Constrained Inversion and Spectral Unmixing in Multispectral Optoacoustic Tomography. <i>IEEE Transactions on Medical Imaging</i> , <b>2017</b> , 36, 1676-1685	11.7	20
114	DNA Polymerase Beta Participates in Mitochondrial DNA Repair. <i>Molecular and Cellular Biology</i> , <b>2017</b> , 37,	4.8	57
113	Towards precision prevention: Technologies for identifying healthy individuals with high risk of disease. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2017</b> , 800-802, 14-28	2.3	14
112	UBE3B Is a Calmodulin-regulated, Mitochondrion-associated E3 Ubiquitin Ligase. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2470-2484	5.4	20
111	FOXO3 Transcription Factor Is Essential for Protecting Hematopoietic Stem and Progenitor Cells from Oxidative DNA Damage. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 3005-3015	5.4	35
110	Development of a Cell-Based Assay for Measuring Base Excision Repair Responses. <i>Scientific Reports</i> , <b>2017</b> , 7, 13007	4.9	9
109	Regulation of DNA Alkylation Damage Repair: Lessons and Therapeutic Opportunities. <i>Trends in Biochemical Sciences</i> , <b>2017</b> , 42, 206-218	10.3	60
108	Non-negative constrained inversion approaches for unmixing chromophores in multispectral optoacoustic tomography <b>2017</b> ,		1
107	Crosstalk between mismatch repair and base excision repair in human gastric cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 84827-84840	3.3	11
106	A Network of Conserved Synthetic Lethal Interactions for Exploration of Precision Cancer Therapy. <i>Molecular Cell</i> , <b>2016</b> , 63, 514-25	17.6	99
105	Crystal structure of human aldehyde dehydrogenase 1A3 complexed with NAD and retinoic acid. <i>Scientific Reports</i> , <b>2016</b> , 6, 35710	4.9	42
104	Oxidative guanine base damage regulates human telomerase activity. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 1092-1100	17.6	103

103	The Shu complex promotes error-free tolerance of alkylation-induced base excision repair products. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, 8199-215	20.1	15
102	Administration of polysaccharide from Panax notoginseng prolonged the survival of H22 tumor-bearing mice. <i>OncoTargets and Therapy</i> , <b>2016</b> , 9, 3433-41	4.4	20
101	Gene expression profiling distinguishes proneural glioma stem cells from mesenchymal glioma stem cells. <i>Genomics Data</i> , <b>2015</b> , 5, 333-336		21
100	Enzyme mechanism-based, oxidative DNA-protein cross-links formed with DNA polymerase $\beta$ in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8602-7	11.5	47
99	Loss of caspase-3 sensitizes colon cancer cells to genotoxic stress via RIP1-dependent necrosis. <i>Cell Death and Disease</i> , <b>2015</b> , 6, e1729	9.8	30
98	Role of mismatch repair proteins in the processing of cisplatin interstrand cross-links. <i>DNA Repair</i> , <b>2015</b> , 35, 126-36	4.3	41
97	15-Hydroxyprostaglandin dehydrogenase generation of electrophilic lipid signaling mediators from hydroxy $\omega$ fatty acids. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 5868-80	5.4	21
96	A novel strategy for targeted killing of tumor cells: Induction of multipolar acentrosomal mitotic spindles with a quinazolinone derivative mdivi-1. <i>Molecular Oncology</i> , <b>2015</b> , 9, 488-502	7.9	17
95	Chemogenetic profiling identifies RAD17 as synthetically lethal with checkpoint kinase inhibition. <i>Oncotarget</i> , <b>2015</b> , 6, 35755-69	3.3	7
94	ARTD1 (PARP1) activation and NAD(+) in DNA repair and cell death. <i>DNA Repair</i> , <b>2014</b> , 23, 27-32	4.3	77
93	Preface. NAD metabolism and signaling: Critical pathways in bacteria, yeast and mammals influencing genome stability, cell survival and disease. <i>DNA Repair</i> , <b>2014</b> , 23, 1-3	4.3	2
92	Deletion of individual Ku subunits in mice causes an NHEJ-independent phenotype potentially by altering apurinic/apyrimidinic site repair. <i>PLoS ONE</i> , <b>2014</b> , 9, e86358	3.7	17
91	Repair of oxidative DNA base damage in the host genome influences the HIV integration site sequence preference. <i>PLoS ONE</i> , <b>2014</b> , 9, e103164	3.7	8
90	Novel method for site-specific induction of oxidative DNA damage reveals differences in recruitment of repair proteins to heterochromatin and euchromatin. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 2330-45	20.1	65
89	Mitochondria, energetics, epigenetics, and cellular responses to stress. <i>Environmental Health Perspectives</i> , <b>2014</b> , 122, 1271-8	8.4	167
88	ATM regulates 3-methylpurine-DNA glycosylase and promotes therapeutic resistance to alkylating agents. <i>Cancer Discovery</i> , <b>2014</b> , 4, 1198-213	24.4	43
87	ARTD1/PARP1 negatively regulates glycolysis by inhibiting hexokinase 1 independent of NAD <sup>+</sup> depletion. <i>Cell Reports</i> , <b>2014</b> , 8, 1819-1831	10.6	119
86	HSP90 regulates DNA repair via the interaction between XRCC1 and DNA polymerase $\beta$ <i>Nature Communications</i> , <b>2014</b> , 5, 5513	17.4	67

85	Use of RNA Interference to Study DNA Repair. <i>Methods in Pharmacology and Toxicology</i> , <b>2014</b> , 413-447	1.1	0
84	DNA Repair Polymerases. <i>Nucleic Acids and Molecular Biology</i> , <b>2014</b> , 43-83		
83	Base excision repair facilitates a functional relationship between Guanine oxidation and histone demethylation. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 18, 2429-43	8.4	30
82	Synthesis and characterization of DNA minor groove binding alkylating agents. <i>Chemical Research in Toxicology</i> , <b>2013</b> , 26, 156-68	4	12
81	SMUG1 but not UNG DNA glycosylase contributes to the cellular response to recovery from 5-fluorouracil induced replication stress. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2013</b> , 743-744, 26-32	3.3	13
80	MELK-dependent FOXM1 phosphorylation is essential for proliferation of glioma stem cells. <i>Stem Cells</i> , <b>2013</b> , 31, 1051-63	5.8	139
79	Epistatic role of base excision repair and mismatch repair pathways in mediating cisplatin cytotoxicity. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 7332-43	20.1	50
78	Mesenchymal glioma stem cells are maintained by activated glycolytic metabolism involving aldehyde dehydrogenase 1A3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 8644-9	11.5	410
77	Targeting DNA Repair Pathways for Cancer Therapy <b>2013</b> , 137-180		
76	Cross-species synthetic lethal interaction screening as a strategy for the identification of novel therapeutic targets in cancer.. <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, 11105-11105	2.2	
75	Alkylation sensitivity screens reveal a conserved cross-species functionome. <i>Molecular Cancer Research</i> , <b>2012</b> , 10, 1580-96	6.6	31
74	Identification and characterization of human apurinic/aprimidinic endonuclease-1 inhibitors. <i>Biochemistry</i> , <b>2012</b> , 51, 6246-59	3.2	30
73	Targeting DNA Polymerase $\beta$ for Therapeutic Intervention. <i>Current Molecular Pharmacology</i> , <b>2012</b> , 5, 68-87	3.7	19
72	For MutY, it's all about the OG. <i>Chemistry and Biology</i> , <b>2012</b> , 19, 313-4		9
71	Genome instability caused by a germline mutation in the human DNA repair gene POLB. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1003086	6	13
70	Quantitative, real-time analysis of base excision repair activity in cell lysates utilizing lesion-specific molecular beacons. <i>Journal of Visualized Experiments</i> , <b>2012</b> , e4168	1.6	23
69	Targeting DNA polymerase $\beta$ for therapeutic intervention. <i>Current Molecular Pharmacology</i> , <b>2012</b> , 5, 68-87	3.7	12
68	Transcriptional profiling reveals elevated Sox2 in DNA polymerase $\beta$ null mouse embryonic fibroblasts. <i>American Journal of Cancer Research</i> , <b>2012</b> , 2, 699-713	4.4	1

67	ABT-888 (veliparib) in combination with weekly carboplatin and paclitaxel in advanced solid tumors.. <i>Journal of Clinical Oncology</i> , <b>2012</b> , 30, TPS1138-TPS1138	2.2	
66	The base excision repair pathway is required for efficient lentivirus integration. <i>PLoS ONE</i> , <b>2011</b> , 6, e17867	29	
65	XRCC1 and base excision repair balance in response to nitric oxide. <i>DNA Repair</i> , <b>2011</b> , 10, 1282-93	4.3	40
64	IDH1 mutations are common in malignant gliomas arising in adolescents: a report from the Children's Oncology Group. <i>Child's Nervous System</i> , <b>2011</b> , 27, 87-94	1.7	126
63	A novel SNP analysis method to detect copy number alterations with an unbiased reference signal directly from tumor samples. <i>BMC Medical Genomics</i> , <b>2011</b> , 4, 14	3.7	3
62	MicroRNA-137 promoter methylation is associated with poorer overall survival in patients with squamous cell carcinoma of the head and neck. <i>Cancer</i> , <b>2011</b> , 117, 1454-62	6.4	84
61	Base excision repair and lesion-dependent subpathways for repair of oxidative DNA damage. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 14, 2491-507	8.4	186
60	Following cytochrome c release, autophagy is inhibited during chemotherapy-induced apoptosis by caspase 8-mediated cleavage of Beclin 1. <i>Cancer Research</i> , <b>2011</b> , 71, 3625-34	10.1	116
59	N-methylpurine DNA glycosylase and DNA polymerase beta modulate BER inhibitor potentiation of glioma cells to temozolomide. <i>Neuro-Oncology</i> , <b>2011</b> , 13, 471-86	1	78
58	Novel role of base excision repair in mediating cisplatin cytotoxicity. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 14564-74	5.4	59
57	Overcoming temozolomide resistance in glioblastoma via dual inhibition of NAD+ biosynthesis and base excision repair. <i>Cancer Research</i> , <b>2011</b> , 71, 2308-17	10.1	116
56	MicroRNA-137 promoter methylation in oral rinses from patients with squamous cell carcinoma of the head and neck is associated with gender and body mass index. <i>Carcinogenesis</i> , <b>2010</b> , 31, 864-70	4.6	103
55	Bioenergetic metabolites regulate base excision repair-dependent cell death in response to DNA damage. <i>Molecular Cancer Research</i> , <b>2010</b> , 8, 67-79	6.6	59
54	Parp1 activation in mouse embryonic fibroblasts promotes Pol beta-dependent cellular hypersensitivity to alkylation damage. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , <b>2010</b> , 686, 57-67	3.3	24
53	DNA polymerase beta-dependent long patch base excision repair in living cells. <i>DNA Repair</i> , <b>2010</b> , 9, 109-19	4.9	40
52	Mismatch repair deficiency is an uncommon mechanism of alkylator resistance in pediatric malignant gliomas: a report from the Children's Oncology Group. <i>Pediatric Blood and Cancer</i> , <b>2010</b> , 55, 1066-71	3	20
51	Gastrointestinal hyperplasia with altered expression of DNA polymerase beta. <i>PLoS ONE</i> , <b>2009</b> , 4, e64933	3.7	15
50	Differential effects of reactive nitrogen species on DNA base excision repair initiated by the alkyladenine DNA glycosylase. <i>Carcinogenesis</i> , <b>2009</b> , 30, 2123-9	4.6	32

49	Dicer-regulated microRNAs 222 and 339 promote resistance of cancer cells to cytotoxic T-lymphocytes by down-regulation of ICAM-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 10746-51	11.5	143
48	Recurrence in oral and pharyngeal cancer is associated with quantitative MGMT promoter methylation. <i>BMC Cancer</i> , <b>2009</b> , 9, 354	4.8	44
47	CHIPping away at base excision repair. <i>Molecular Cell</i> , <b>2008</b> , 29, 413-5	17.6	20
46	Folate deficiency induces neurodegeneration and brain dysfunction in mice lacking uracil DNA glycosylase. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 7219-30	6.6	68
45	Human methyl purine DNA glycosylase and DNA polymerase beta expression collectively predict sensitivity to temozolomide. <i>Molecular Pharmacology</i> , <b>2008</b> , 74, 505-16	4.3	75
44	Mutagenesis is elevated in male germ cells obtained from DNA polymerase-beta heterozygous mice. <i>Biology of Reproduction</i> , <b>2008</b> , 79, 824-31	3.9	16
43	DNA polymerase beta null mouse embryonic fibroblasts harbor a homozygous null mutation in DNA polymerase iota. <i>DNA Repair</i> , <b>2007</b> , 6, 3-7	4.3	22
42	Overexpression of Dicer in precursor lesions of lung adenocarcinoma. <i>Cancer Research</i> , <b>2007</b> , 67, 2345-50	10.1	212
41	A unified view of base excision repair: lesion-dependent protein complexes regulated by post-translational modification. <i>DNA Repair</i> , <b>2007</b> , 6, 695-711	4.3	316
40	O6-methylguanine-DNA methyltransferase expression strongly correlates with outcome in childhood malignant gliomas: results from the CCG-945 Cohort. <i>Journal of Clinical Oncology</i> , <b>2006</b> , 24, 3431-7	2.2	152
39	Up-regulation of dicer, a component of the MicroRNA machinery, in prostate adenocarcinoma. <i>American Journal of Pathology</i> , <b>2006</b> , 169, 1812-20	5.8	300
38	The role of base excision repair in the sensitivity and resistance to temozolomide-mediated cell death. <i>Cancer Research</i> , <b>2005</b> , 65, 6394-400	10.1	177
37	Increased postischemic brain injury in mice deficient in uracil-DNA glycosylase. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 113, 1711-1721	15.9	91
36	Increased postischemic brain injury in mice deficient in uracil-DNA glycosylase. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 113, 1711-21	15.9	41
35	Base excision repair intermediates induce p53-independent cytotoxic and genotoxic responses. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 39951-9	5.4	140
34	Regulated over-expression of DNA polymerase beta mediates early onset cataract in mice. <i>DNA Repair</i> , <b>2003</b> , 2, 609-22	4.3	22
33	Base excision repair deficiency caused by polymerase beta haploinsufficiency: accelerated DNA damage and increased mutational response to carcinogens. <i>Cancer Research</i> , <b>2003</b> , 63, 5799-807	10.1	75
32	Mutations associated with base excision repair deficiency and methylation-induced genotoxic stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 6860-5	11.5	71

31	Involvement of DNA polymerase beta in protection against the cytotoxicity of oxidative DNA damage. <i>DNA Repair</i> , <b>2002</b> , 1, 317-33	4.3	69
30	Binary system for selective photoaffinity labeling of base excision repair DNA polymerases. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, e73	20.1	13
29	Photoaffinity labeling of mouse fibroblast enzymes by a base excision repair intermediate. Evidence for the role of poly(ADP-ribose) polymerase-1 in DNA repair. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 25541-8	5.4	147
28	Mammalian DNA beta-polymerase in base excision repair of alkylation damage. <i>Progress in Molecular Biology and Translational Science</i> , <b>2001</b> , 68, 57-74		66
27	The lyase activity of the DNA repair protein beta-polymerase protects from DNA-damage-induced cytotoxicity. <i>Nature</i> , <b>2000</b> , 405, 807-10	50.4	288
26	DNA polymerase beta and mammalian base excision repair. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2000</b> , 65, 143-55	3.9	40
25	Selective mRNA degradation by antisense oligonucleotide-2,5A chimeras: involvement of RNase H and RNase L. <i>Biochimie</i> , <b>1998</b> , 80, 711-20	4.6	6
24	Different DNA polymerases are involved in the short- and long-patch base excision repair in mammalian cells. <i>Biochemistry</i> , <b>1998</b> , 37, 3575-80	3.2	195
23	Impairment of proliferating cell nuclear antigen-dependent apurinic/aprimidinic site repair on linear DNA. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 898-902	5.4	170
22	Up-regulation of base excision repair correlates with enhanced protection against a DNA damaging agent in mouse cell lines. <i>Nucleic Acids Research</i> , <b>1998</b> , 26, 2001-7	20.1	76
21	Requirement of mammalian DNA polymerase-beta in base-excision repair. <i>Nature</i> , <b>1996</b> , 379, 183-6	50.4	751
20	Requirement of mammalian DNA polymerase-β in base-excision repair. <i>Nature</i> , <b>1996</b> , 379, 848-848	50.4	3
19	Inhibition of HIV-1 replication and activation of RNase L by phosphorothioate/phosphodiester 2R5Roligoadenylate derivatives. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 5963-78	5.4	35
18	Upregulation of the 2-5A synthetase/RNase L antiviral pathway associated with chronic fatigue syndrome. <i>Clinical Infectious Diseases</i> , <b>1994</b> , 18 Suppl 1, S96-104	11.6	98
17	Mapping of nucleic acid binding in proteolytic domains of HIV-1 reverse transcriptase. <i>Biochemistry</i> , <b>1993</b> , 32, 7466-74	3.2	14
16	HIV-1 reverse transcriptase: inhibition by 2R5Roligoadenylates. <i>Biochemistry</i> , <b>1993</b> , 32, 12112-8	3.2	26
15	Chemical synthesis and biological characterization of phosphorothioate analogs of 2R5Rdeoxyadenylate trimer. <i>Nucleic Acids Research</i> , <b>1993</b> , 21, 2437-43	20.1	12
14	Nucleotides. Part XXXVI. Syntheses and biological characterization of phosphorothioate analogues of (3R?)adenylate trimer. <i>Helvetica Chimica Acta</i> , <b>1991</b> , 74, 892-898	2	5



13	Purine 8-substitution modulates the ribonuclease L binding and activation abilities of 2 $\beta$ 5R oligoadenylates. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 176, 769-74	3.4	7
12	Localization of a polynucleotide binding region in the HIV-1 reverse transcriptase: implications for primer binding. <i>Biochemistry</i> , <b>1991</b> , 30, 10623-31	3.2	47
11	Cordycepin analogues of 2 $\beta$ 5R oligoadenylate inhibit human immunodeficiency virus infection via inhibition of reverse transcriptase. <i>Biochemistry</i> , <b>1991</b> , 30, 2027-33	3.2	110
10	Phosphorothioate analogues of (2 $\beta$ 5R(A) <sub>4</sub> ): agonist and antagonist activities in intact cells. <i>Biochemistry</i> , <b>1990</b> , 29, 2550-6	3.2	26
9	2 $\beta$ 5RA synthetase: allosteric activation by fructose 1,6-bisphosphate. <i>Biochemical and Biophysical Research Communications</i> , <b>1990</b> , 169, 1198-203	3.4	6
8	Chemical synthesis and biological activities of analogues of 2 $\beta$ 5R oligoadenylates containing 8-substituted adenosine derivatives. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 4439-46	20.1	16
7	Nucleotides part XXX Chemical synthesis of adenylyl-(2 $\beta$ -r $\beta$ )-adenylyl-(2 $\beta$ -r $\beta$ )-8-azidoadenosine, and activation and photoaffinity labelling of RNase L by [32P]p5 $\beta$ A2 $\beta$ p5 $\beta$ N38A. <i>Helvetica Chimica Acta</i> , <b>1989</b> , 72, 1354-1361	2	21
6	Phosphorothioate and cordycepin analogues of 2 $\beta$ 5R oligoadenylate: inhibition of human immunodeficiency virus type 1 reverse transcriptase and infection in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1989</b> , 86, 7191-4	11.5	51
5	2- and 8-azido photoaffinity probes. 1. Enzymatic synthesis, characterization, and biological properties of 2- and 8-azido photoprobes of 2-5A and photolabeling of 2-5A binding proteins. <i>Biochemistry</i> , <b>1988</b> , 27, 8840-6	3.2	16
4	2- and 8-azido photoaffinity probes. 2. Studies on the binding process of 2-5A synthetase by photosensitive ATP analogues. <i>Biochemistry</i> , <b>1988</b> , 27, 8846-51	3.2	10
3	Phosphorothioate Analogs of 2 $\beta$ A: Elucidation of the Stereochemical Course of the Enzymes of the 2 $\beta$ A Synthetase/RNase L System. <i>Nucleosides &amp; Nucleotides</i> , <b>1987</b> , 6, 173-184		2
2	Phosphorothioate analogues of 2 $\beta$ 5R oligoadenylate. Enzymatically synthesized 2 $\beta$ 5R phosphorothioate dimer and trimer: unequivocal structural assignment and activation of 2 $\beta$ 5R oligoadenylate-dependent endoribonuclease. <i>Biochemistry</i> , <b>1987</b> , 26, 7127-35	3.2	53
1	Phosphorothioate analogues of 2 $\beta$ 5R oligoadenylate. Activation of 2 $\beta$ 5R oligoadenylate-dependent endoribonuclease by 2 $\beta$ 5R phosphorothioate cores and 5R monophosphates. <i>Biochemistry</i> , <b>1987</b> , 26, 7136-42	3.2	41