

# Dev P Arya

## 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.

93  
papers

2,665  
citations

32  
h-index

47  
g-index

115  
ext. papers

2,876  
ext. citations

5.9  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
93	Fine-tuning miR-21 expression and inhibition of EMT in breast cancer cells using aromatic-neomycin derivatives.. <i>Molecular Therapy - Nucleic Acids</i> , <b>2022</b> , 27, 685-698	10.7	0
92	Structural basis for plazomicin antibiotic action and resistance. <i>Communications Biology</i> , <b>2021</b> , 4, 729	6.7	4
91	Structural and phylogenetic analyses of resistance to next-generation aminoglycosides conferred by AAC(2B) enzymes. <i>Scientific Reports</i> , <b>2021</b> , 11, 11614	4.9	2
90	Surface Dependent Dual Recognition of a G-quadruplex DNA With Neomycin-Intercalator Conjugates. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 60	5	2
89	Gram-negative synergy and mechanism of action of alkynyl bisbenzimidazoles. <i>Scientific Reports</i> , <b>2019</b> , 9, 14171	4.9	3
88	A fluorescent aminosugar to rapidly screen and study RNA binders. <i>Methods in Enzymology</i> , <b>2019</b> , 623, 291-314	1.7	1
87	Aminoglycoside Functionalization as a Tool for Targeting Nucleic Acids. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1973, 147-162	1.4	1
86	Synthesis, antimicrobial activity, attenuation of aminoglycoside resistance in MRSA, and ribosomal A-site binding of pyrene-neomycin conjugates. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 163, 381-393	6.8	9
85	Targeting miRNA by tunable small molecule binders: peptidic aminosugar mediated interference in miR-21 biogenesis reverts epithelial to mesenchymal transition. <i>MedChemComm</i> , <b>2018</b> , 9, 1147-1154	5	15
84	Rapid solid-phase syntheses of a peptidic-aminoglycoside library. <i>Tetrahedron</i> , <b>2018</b> , 74, 4418-4428	2.4	4
83	An overview of recent advances in duplex DNA recognition by small molecules. <i>Beilstein Journal of Organic Chemistry</i> , <b>2018</b> , 14, 1051-1086	2.5	59
82	New Application of Neomycin B-Bisbenzimidazole Hybrids as Antifungal Agents. <i>ACS Infectious Diseases</i> , <b>2018</b> , 4, 196-207	5.5	13
81	Antimicrobial Activity, AME Resistance, and A-Site Binding Studies of Anthraquinone-Neomycin Conjugates. <i>ACS Infectious Diseases</i> , <b>2017</b> , 3, 206-215	5.5	15
80	Selective Inhibition of Escherichia coli RNA and DNA Topoisomerase I by Hoechst 33258 Derived Mono- and Bisbenzimidazoles. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 4904-4922	8.3	19
79	Utilization of chromic polydiacetylene assemblies as a platform to probe specific binding between drug and RNA. <i>RSC Advances</i> , <b>2017</b> , 7, 41435-41443	3.7	21
78	Eukaryotic Ribosomal Expansion Segments as Antimicrobial Targets. <i>Biochemistry</i> , <b>2017</b> , 56, 5288-5299	3.2	10
77	Impact of Linker Length and Composition on Fragment Binding and Cell Permeation: Story of a Bisbenzimidazole Dye Fragment. <i>Biochemistry</i> , <b>2017</b> , 56, 6434-6447	3.2	6

76	Probing A-form DNA: A fluorescent aminosugar probe and dual recognition by anthraquinone-neomycin conjugates. <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 1309-1319	3.4	15
75	Histone Deacetylase Inhibitors Are Protective in Acute but Not in Chronic Models of Ototoxicity. <i>Frontiers in Cellular Neuroscience</i> , <b>2017</b> , 11, 315	6.1	6
74	Linker dependent intercalation of bisbenzimidazole-aminosugars in an RNA duplex; selectivity in RNA vs. DNA binding. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2016</b> , 26, 5989-5994	2.9	13
73	Multivalency in the recognition and antagonism of a HIV TAR RNA-TAT assembly using an aminoglycoside benzimidazole scaffold. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 2052-6	3.9	33
72	Arginine-linked neomycin B dimers: synthesis, rRNA binding, and resistance enzyme activity. <i>MedChemComm</i> , <b>2016</b> , 7, 164-169	5	19
71	Potent inhibition of miR-27a by neomycin-bisbenzimidazole conjugates. <i>Chemical Science</i> , <b>2015</b> , 6, 5837-5846	5.4	29
70	Rapid synthesis, RNA binding, and antibacterial screening of a peptidic-aminosugar (PA) library. <i>ACS Chemical Biology</i> , <b>2015</b> , 10, 1278-89	4.9	27
69	Influence of linker length in shape recognition of B* DNA by dimeric aminoglycosides. <i>Bioorganic and Medicinal Chemistry</i> , <b>2015</b> , 23, 3105-9	3.4	12
68	Influence of linker length and composition on enzymatic activity and ribosomal binding of neomycin dimers. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2015</b> , 59, 3899-905	5.9	18
67	A pH Sensitive High-Throughput Assay for miRNA Binding of a Peptide-Aminoglycoside (PA) Library. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144251	3.7	15
66	Multivalent Amino Sugars to Recognize Different TAR RNA Conformations. <i>MedChemComm</i> , <b>2014</b> , 5, 1235-1246	5	3
65	Selective Inhibition of Bacterial Topoisomerase I by alkynyl-bisbenzimidazoles. <i>MedChemComm</i> , <b>2014</b> , 5, 816-825	5	20
64	Recognition of RNA duplex by a neomycin-Hoechst 33258 conjugate. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 2327-32	3.4	16
63	Shape readout of AT-rich DNA by carbohydrates. <i>Biopolymers</i> , <b>2014</b> , 101, 720-32	2.2	5
62	Analysis of Diazofluorene DNA Binding and Damaging Activity: DNA Cleavage by a Synthetic Monomeric Diazofluorene. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9479-9482	3.6	1
61	Analysis of diazofluorene DNA binding and damaging activity: DNA cleavage by a synthetic monomeric diazofluorene. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9325-8	16.4	14
60	An assay for human telomeric G-quadruplex DNA binding drugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2013</b> , 23, 6695-9	2.9	12
59	Recognition of HIV-TAR RNA using neomycin-benzimidazole conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2013</b> , 23, 5689-93	2.9	36

58	A fluorescence-based screen for ribosome binding antibiotics. <i>Analytical Biochemistry</i> , <b>2013</b> , 434, 300-7	3.1	34
57	Dual recognition of the human telomeric G-quadruplex by a neomycin-anthraquinone conjugate. <i>Chemical Communications</i> , <b>2013</b> , 49, 5796-8	5.8	48
56	Characterization of ribosomal binding and antibacterial activities using two orthogonal high-throughput screens. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2013</b> , 57, 4717-26	5.9	12
55	Targeting C-myc G-quadruplex: dual recognition by aminosugar-bisbenzimidazoles with varying linker lengths. <i>Molecules</i> , <b>2013</b> , 18, 14228-40	4.8	30
54	Click dimers to target HIV TAR RNA conformation. <i>Biochemistry</i> , <b>2012</b> , 51, 2331-47	3.2	50
53	Natural product DNA major groove binders. <i>Natural Product Reports</i> , <b>2012</b> , 29, 134-43	15.1	98
52	Efficient stabilization of phosphodiester (PO), phosphorothioate (PS), and 2RO-methoxy (2ROME) DNA/RNA hybrid duplexes by amino sugars. <i>Biochemistry</i> , <b>2012</b> , 51, 5496-505	3.2	5
51	Neomycin-neomycin dimer: an all-carbohydrate scaffold with high affinity for AT-rich DNA duplexes. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7361-75	16.4	60
50	Recognition of HIV TAR RNA by triazole linked neomycin dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2011</b> , 21, 4788-92	2.9	39
49	Thermodynamics of nucleic acid "shape readout" by an aminosugar. <i>Biochemistry</i> , <b>2011</b> , 50, 9088-113	3.2	65
48	Synthesis and spectroscopic studies of the aminoglycoside (neomycin)-perylene conjugate binding to human telomeric DNA. <i>Biochemistry</i> , <b>2011</b> , 50, 2838-49	3.2	77
47	New approaches toward recognition of nucleic acid triple helices. <i>Accounts of Chemical Research</i> , <b>2011</b> , 44, 134-46	24.3	137
46	Triple recognition of B-DNA by a neomycin-Hoechst 33258-pyrene conjugate. <i>Biochemistry</i> , <b>2010</b> , 49, 452-69	3.2	57
45	Calorimetric and spectroscopic studies of aminoglycoside binding to AT-rich DNA triple helices. <i>Biochimie</i> , <b>2010</b> , 92, 514-29	4.6	31
44	Aminoglycoside binding to <i>Oxytricha nova</i> telomeric DNA. <i>Biochemistry</i> , <b>2010</b> , 49, 9891-903	3.2	57
43	Probing the recognition surface of a DNA triplex: binding studies with intercalator-neomycin conjugates. <i>Biochemistry</i> , <b>2010</b> , 49, 5540-52	3.2	46
42	Molecular recognition of single-stranded RNA: neomycin binding to poly(A). <i>FEBS Letters</i> , <b>2009</b> , 583, 2269-75	3.8	42
41	Triple recognition of B-DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2009</b> , 19, 4974-9	2.9	31

40	Recognition of the unique structure of DNA:RNA hybrids. <i>Biochimie</i> , <b>2008</b> , 90, 1026-39	4.6	84
39	Molecular recognition of a DNA:RNA hybrid: sub-nanomolar binding by a neomycin-methidium conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2008</b> , 18, 4142-5	2.9	58
38	The Biochemistry and Genetics of Aminoglycoside Producers <b>2007</b> , 15-118		16
37	Design, Chemical Synthesis, and Antibacterial Activity of Kanamycin and Neomycin Class Aminoglycoside Antibiotics <b>2007</b> , 141-180		11
36	Mechanisms of Aminoglycoside Antibiotic Resistance <b>2007</b> , 119-140		15
35	In the Beginning There Was Streptomycin <b>2007</b> , 1-13		4
34	NMR Structural Studies of Aminoglycoside: RNA Interaction <b>2007</b> , 181-207		1
33	Structural Comparisons Between Prokaryotic and Eukaryotic Ribosomal Decoding A Sites Free and Complexed with Aminoglycosides <b>2007</b> , 209-223		8
32	Metalloaminoglycosides: Chemistry and Biological Relevance <b>2007</b> , 235-254		2
31	Sequence-specific targeting of RNA with an oligonucleotide-neomycin conjugate. <i>Bioconjugate Chemistry</i> , <b>2007</b> , 18, 160-9	6.3	41
30	Binding of Antibiotics to the Aminoacyl-Trna Site of Bacterial Ribosome <b>2007</b> , 225-233		2
29	Targeting HIV-1 RNA with Aminoglycoside Antibiotics and Their Derivatives <b>2007</b> , 267-287		4
28	Novel Targets for Aminoglycosides <b>2007</b> , 289-314		3
27	Adverse Effects of Aminoglycoside Therapy <b>2007</b> , 255-266		6
26	Major Groove Recognition of DNA by Carbohydrates. <i>Current Organic Chemistry</i> , <b>2006</b> , 10, 663-673	1.7	34
25	An expanding view of aminoglycoside-nucleic acid recognition. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , <b>2006</b> , 60, 251-302	3.7	39
24	Recognition of B-DNA by neomycin--Hoechst 33258 conjugates. <i>Biochemistry</i> , <b>2006</b> , 45, 10217-32	3.2	48
23	Neomycin improves cationic lipid-mediated transfection of DNA in human cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2005</b> , 15, 3467-9	2.9	20

22	Aminoglycoside-Nucleic Acid Interactions: The Case for Neomycin. <i>Topics in Current Chemistry</i> , <b>2005</b> , 149-178		31
21	Synthesis of Neomycin-DNA/Peptide Nucleic Acid Conjugates. <i>Journal of Carbohydrate Chemistry</i> , <b>2005</b> , 24, 145-160	1.7	26
20	From triplex to B-form duplex stabilization: reversal of target selectivity by aminoglycoside dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 4643-6	2.9	35
19	Particle beam glow discharge mass spectrometry: spectral characteristics of nucleobases. <i>Rapid Communications in Mass Spectrometry</i> , <b>2003</b> , 17, 1749-58	2.2	12
18	Combining the best in triplex recognition: synthesis and nucleic acid binding of a BQQ-neomycin conjugate. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 8070-1	16.4	66
17	Aminoglycoside (neomycin) preference is for A-form nucleic acids, not just RNA: results from a competition dialysis study. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 10148-9	16.4	73
16	Reaching into the major groove of B-DNA: synthesis and nucleic acid binding of a neomycin-hoechst 33258 conjugate. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 12398-9	16.4	53
15	Neomycin binding to Watson-Hoogsteen (W-H) DNA triplex groove: a model. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 3733-44	16.4	97
14	Synthesis of aminoglycoside-DNA conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2002</b> , 12, 1259-63	2.9	42
13	Pyrene-neomycin conjugate: dual recognition of a DNA triple helix. <i>Chemical Communications</i> , <b>2002</b> , 70-158	1.8	56
12	Aminoglycoside-nucleic acid interactions: remarkable stabilization of DNA and RNA triple helices by neomycin. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5385-95	16.4	93
11	Neomycin-induced hybrid triplex formation. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11093-4	16.4	87
10	Solid-phase synthesis of oligomeric deoxynucleic-thiourea (DNT) and deoxynucleic S-methylthiourea (DNmt): a neutral/polycationic analogue of DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2000</b> , 10, 691-3	2.9	14
9	DNA triple helix stabilization by aminoglycoside antibiotics. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2000</b> , 10, 1897-9	2.9	55
8	Fidelity of Deoxynucleic S-Methylthiourea (DNmt) Binding to DNA Oligomers: Influence of C Mismatches. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 10680-10684	16.4	11
7	Replacement of the Negative Phosphodiester Linkages of DNA by Positive S-Methylthiourea Linkers: A Novel Approach to Putative Antisense Agents. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6619-6620	16.4	29
6	Positively Charged Deoxynucleic Methylthioureas: Synthesis and Binding Properties of Pentameric Thymidyl Methylthiourea. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 12419-12427	16.4	17
5	A single precursor approach to new DNA cleaving and crosslinking agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>1995</b> , 5, 1191-1196	2.9	5

4	Azoester compounds for inducing DNA cleavage under physiological conditions. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 3123-3126	2	8
3	Towards the development of non-enediyne approaches for mimicking enediyne chemistry: Design, synthesis and activity of a 1,4-bisdiazonium compound. <i>Tetrahedron Letters</i> , <b>1995</b> , 36, 4369-4372	2	13
2	DNA Cleaving Ability of 9-Diazofluorenes and Diaryl Diazomethanes: Implications for the Mode of Action of the Kinamycin Antibiotics. <i>Journal of Organic Chemistry</i> , <b>1995</b> , 60, 3268-3269	4.2	28
1	Development of new DNA-binding and cleaving molecules: Design, synthesis and activity of a bisdiazonium salt. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 7823-7826	2	18