

# Dev P Arya

## List of Publications by Year in descending order

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81  
papers

3,067  
citations

126901

33  
h-index

182417

51  
g-index

115  
all docs

115  
docs citations

115  
times ranked

2043  
citing authors

#	ARTICLE	IF	CITATIONS
1	New Approaches Toward Recognition of Nucleic Acid Triple Helices. <i>Accounts of Chemical Research</i> , 2011, 44, 134-146.	15.6	152
2	Natural product DNA major groove binders. <i>Natural Product Reports</i> , 2012, 29, 134-143.	10.3	115
3	Aminoglycoside~Nucleic Acid Interactions:~Remarkable Stabilization of DNA and RNA Triple Helices by Neomycin. <i>Journal of the American Chemical Society</i> , 2001, 123, 5385-5395.	13.7	105
4	Recognition of the unique structure of DNA:RNA hybrids. <i>Biochimie</i> , 2008, 90, 1026-1039.	2.6	101
5	Neomycin Binding to Watson~Hoogsteen (W~H) DNA Triplex Groove:~A Model. <i>Journal of the American Chemical Society</i> , 2003, 125, 3733-3744.	13.7	100
6	An overview of recent advances in duplex DNA recognition by small molecules. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 1051-1086.	2.2	97
7	Neomycin-Induced Hybrid Triplex Formation. <i>Journal of the American Chemical Society</i> , 2001, 123, 11093-11094.	13.7	92
8	Synthesis and Spectroscopic Studies of the Aminoglycoside (Neomycin)~Perylene Conjugate Binding to Human Telomeric DNA. <i>Biochemistry</i> , 2011, 50, 2838-2849.	2.5	82
9	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> , 2003, 125, 10148-10149.	13.7	78
10	Thermodynamics of Nucleic Acid ~Shape Readout~by an Aminosugar. <i>Biochemistry</i> , 2011, 50, 9088-9113.	2.5	72
11	Neomycin~Neomycin Dimer: An All-Carbohydrate Scaffold with High Affinity for AT-Rich DNA Duplexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 7361-7375.	13.7	71
12	Combining the Best in Triplex Recognition:~% Synthesis and Nucleic Acid Binding of a BQQ~Neomycin Conjugate. <i>Journal of the American Chemical Society</i> , 2003, 125, 8070-8071.	13.7	70
13	Molecular recognition of a DNA:RNA hybrid: Sub-nanomolar binding by a neomycin~methidium conjugate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 4142-4145.	2.2	65
14	Triple Recognition of B-DNA by a Neomycin~Hoechst 33258~Pyrene Conjugate. <i>Biochemistry</i> , 2010, 49, 452-469.	2.5	63
15	Aminoglycoside Binding to <i>Oxytricha nova</i> Telomeric DNA. <i>Biochemistry</i> , 2010, 49, 9891-9903.	2.5	61
16	Dual recognition of the human telomeric G-quadruplex by a neomycin~anthraquinone conjugate. <i>Chemical Communications</i> , 2013, 49, 5796.	4.1	61
17	DNA Triple Helix Stabilization by Aminoglycoside Antibiotics. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 1897-1899.	2.2	60
18	Pyrene~neomycin conjugate: dual recognition of a DNA triple helix Electronic supplementary information (ESI) available: NMR spectra, UV spectra, extinction coefficients, melting curves of pyrene~neomycin conjugate, details of modeling studies. See <a href="http://www.rsc.org/suppdata/cc/b1/b108171c/">http://www.rsc.org/suppdata/cc/b1/b108171c/</a> . <i>Chemical Communications</i> , 2002, , 70-71.	4.1	58

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19	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> , 2003, 125, 12398-12399.	13.7	56
20	Click Dimers To Target HIV TAR RNA Conformation. <i>Biochemistry</i> , 2012, 51, 2331-2347.	2.5	55
21	Recognition of B-DNA by Neomycin-Hoechst 33258 Conjugates. <i>Biochemistry</i> , 2006, 45, 10217-10232.	2.5	53
22	Probing the Recognition Surface of a DNA Triplex: Binding Studies with Intercalator-Neomycin Conjugates. <i>Biochemistry</i> , 2010, 49, 5540-5552.	2.5	52
23	Molecular recognition of single-stranded RNA: Neomycin binding to poly(A). <i>FEBS Letters</i> , 2009, 583, 2269-2275.	2.8	46
24	Synthesis of aminoglycoside-DNA conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 1259-1262.	2.2	44
25	An Expanding View of Aminoglycoside-Nucleic Acid Recognition. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2006, 60, 251-302.	0.9	44
26	Recognition of HIV TAR RNA by triazole linked neomycin dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4788-4792.	2.2	44
27	Sequence-Specific Targeting of RNA with an Oligonucleotide-Neomycin Conjugate. <i>Bioconjugate Chemistry</i> , 2007, 18, 160-169.	3.6	43
28	Recognition of HIV-TAR RNA using neomycin-benzimidazole conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 5689-5693.	2.2	39
29	From triplex to B-form duplex stabilization: reversal of target selectivity by aminoglycoside dimers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 4643-4646.	2.2	37
30	A fluorescence-based screen for ribosome binding antibiotics. <i>Analytical Biochemistry</i> , 2013, 434, 300-307.	2.4	36
31	Targeting C-myc G-Quadruplex: Dual Recognition by Aminosugar-Bisbenzimidazoles with Varying Linker Lengths. <i>Molecules</i> , 2013, 18, 14228-14240.	3.8	36
32	Multivalency in the recognition and antagonism of a HIV TAR RNA-TAT assembly using an aminoglycoside benzimidazole scaffold. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 2052-2056.	2.8	36
33	Major Groove Recognition of DNA by Carbohydrates. <i>Current Organic Chemistry</i> , 2006, 10, 663-673.	1.6	35
34	Rapid Synthesis, RNA Binding, and Antibacterial Screening of a Peptidic-Aminosugar (PA) Library. <i>ACS Chemical Biology</i> , 2015, 10, 1278-1289.	3.4	35
35	Aminoglycoside-Nucleic Acid Interactions: The Case for Neomycin. <i>Topics in Current Chemistry</i> , 2005, , 149-178.	4.0	34
36	Triple recognition of B-DNA. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4974-4979.	2.2	34

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37	Calorimetric and spectroscopic studies of aminoglycoside binding to AT-rich DNA triple helices. <i>Biochimie</i> , 2010, 92, 514-529.	2.6	34
38	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> , 1998, 120, 6619-6620.	13.7	33
39	Potent inhibition of miR-27a by neomycin bisbenzimidazole conjugates. <i>Chemical Science</i> , 2015, 6, 5837-5846.	7.4	33
40	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> , 1995, 60, 3268-3269.	3.2	30
41	Synthesis of Neomycin-DNA/Peptide Nucleic Acid Conjugates. <i>Journal of Carbohydrate Chemistry</i> , 2005, 24, 145-160.	1.1	27
42	Selective Inhibition of <i>Escherichia coli</i> RNA and DNA Topoisomerase I by Hoechst 33258 Derived Mono- and Bisbenzimidazoles. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 4904-4922.	6.4	25
43	Utilization of chromic polydiacetylene assemblies as a platform to probe specific binding between drug and RNA. <i>RSC Advances</i> , 2017, 7, 41435-41443.	3.6	25
44	Selective inhibition of bacterial topoisomerase I by alkynyl-bisbenzimidazoles. <i>MedChemComm</i> , 2014, 5, 816-825.	3.4	24
45	New Application of Neomycin Bisbenzimidazole Hybrids as Antifungal Agents. <i>ACS Infectious Diseases</i> , 2018, 4, 196-207.	3.8	24
46	Analysis of Diazofluorene DNA Binding and Damaging Activity: DNA Cleavage by a Synthetic Monomeric Diazofluorene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9325-9328.	13.8	22
47	Neomycin improves cationic lipid-mediated transfection of DNA in human cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3467-3469.	2.2	21
48	Antimicrobial Activity, AME Resistance, and A-Site Binding Studies of Anthraquinone-Neomycin Conjugates. <i>ACS Infectious Diseases</i> , 2017, 3, 206-215.	3.8	21
49	Development of new DNA-binding and cleaving molecules: Design, synthesis and activity of a bisdiazonium salt. <i>Tetrahedron Letters</i> , 1993, 34, 7823-7826.	1.4	20
50	Positively Charged Deoxynucleic Methylthioureas: Synthesis and Binding Properties of Pentameric Thymidyl Methylthiourea. <i>Journal of the American Chemical Society</i> , 1998, 120, 12419-12427.	13.7	20
51	Arginine-linked neomycin B dimers: synthesis, rRNA binding, and resistance enzyme activity. <i>MedChemComm</i> , 2016, 7, 164-169.	3.4	20
52	Probing A-form DNA: A fluorescent aminosugar probe and dual recognition by anthraquinone-neomycin conjugates. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1309-1319.	3.0	19
53	Recognition of RNA duplex by a neomycin-Hoechst 33258 conjugate. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2327-2332.	3.0	18
54	Influence of Linker Length and Composition on Enzymatic Activity and Ribosomal Binding of Neomycin Dimers. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3899-3905.	3.2	18

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55	Targeting miRNA by tunable small molecule binders: peptidic aminosugar mediated interference in miR-21 biogenesis reverts epithelial to mesenchymal transition. <i>MedChemComm</i> , 2018, 9, 1147-1154.	3.4	18
56	Influence of linker length in shape recognition of Bâ— DNA by dimeric aminoglycosides. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3105-3109.	3.0	17
57	Linker dependent intercalation of bisbenzimidazole-aminosugars in an RNA duplex; selectivity in RNA vs . DNA binding. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016, 26, 5989-5994.	2.2	17
58	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> , 1995, 36, 4369-4372.	1.4	16
59	A pH Sensitive High-Throughput Assay for miRNA Binding of a Peptide-Aminoglycoside (PA) Library. <i>PLoS ONE</i> , 2015, 10, e0144251.	2.5	16
60	An assay for human telomeric G-quadruplex DNA binding drugs. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 6695-6699.	2.2	15
61	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> , 2000, 10, 691-693.	2.2	14
62	Particle beam glow discharge mass spectrometry: spectral characteristics of nucleobases. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1749-1758.	1.5	14
63	Characterization of Ribosomal Binding and Antibacterial Activities Using Two Orthogonal High-Throughput Screens. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 4717-4726.	3.2	14
64	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> , 2019, 163, 381-393.	5.5	13
65	Structural basis for plazomicin antibiotic action and resistance. <i>Communications Biology</i> , 2021, 4, 729.	4.4	13
66	Eukaryotic Ribosomal Expansion Segments as Antimicrobial Targets. <i>Biochemistry</i> , 2017, 56, 5288-5299.	2.5	12
67	Fidelity of Deoxynucleic S-Methylthiourea (DNmt) Binding to DNA Oligomers:â€‰ Influence of C Mismatches. <i>Journal of the American Chemical Society</i> , 1999, 121, 10680-10684.	13.7	11
68	Histone Deacetylase Inhibitors Are Protective in Acute but Not in Chronic Models of Ototoxicity. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 315.	3.7	10
69	Azoester compounds for inducing DNA cleavage under physiological conditions. <i>Tetrahedron Letters</i> , 1995, 36, 3123-3126.	1.4	9
70	Structural and phylogenetic analyses of resistance to next-generation aminoglycosides conferred by AAC(2â€²) enzymes. <i>Scientific Reports</i> , 2021, 11, 11614.	3.3	9
71	Efficient Stabilization of Phosphodiester (PO), Phosphorothioate (PS), and 2â€²-O-Methoxy (2â€²-OMe) DNA-RNA Hybrid Duplexes by Amino Sugars. <i>Biochemistry</i> , 2012, 51, 5496-5505.	2.5	7
72	Shape readout of ATâ€‰rich DNA by carbohydrates. <i>Biopolymers</i> , 2014, 101, 720-732.	2.4	7

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73	Gram-negative synergy and mechanism of action of alkynyl bisbenzimidazoles. <i>Scientific Reports</i> , 2019, 9, 14171.	3.3	7
74	Impact of Linker Length and Composition on Fragment Binding and Cell Permeation: Story of a Bisbenzimidazole Dye Fragment. <i>Biochemistry</i> , 2017, 56, 6434-6447.	2.5	6
75	Rapid solid-phase syntheses of a peptidic-aminoglycoside library. <i>Tetrahedron</i> , 2018, 74, 4418-4428.	1.9	6
76	A single precursor approach to new DNA cleaving and crosslinking agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 1191-1196.	2.2	5
77	Multivalent amino sugars to recognize different TAR RNA conformations. <i>MedChemComm</i> , 2014, 5, 1235-1246.	3.4	5
78	Surface Dependent Dual Recognition of a G-quadruplex DNA With Neomycin-Intercalator Conjugates. <i>Frontiers in Chemistry</i> , 2020, 8, 60.	3.6	5
79	Fine-tuning miR-21 expression and inhibition of EMT in breast cancer cells using aromatic-neomycin derivatives. <i>Molecular Therapy - Nucleic Acids</i> , 2022, 27, 685-698.	5.1	5
80	A fluorescent aminosugar to rapidly screen and study RNA binders. <i>Methods in Enzymology</i> , 2019, 623, 291-314.	1.0	2
81	Aminoglycoside Functionalization as a Tool for Targeting Nucleic Acids. <i>Methods in Molecular Biology</i> , 2019, 1973, 147-162.	0.9	2