Aneel K Aggarwal

List of Publications by Year in descending order

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29994 22764 13,272 133 54 112 citations h-index g-index papers 139 139 139 15049 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
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| 1 | Cryo-EM structure of translesion DNA synthesis polymerase \hat{I}^{\P} with a base pair mismatch. Nature Communications, 2022, 13, 1050. | 5.8 | 7 |
| 2 | Discovery of a dual WDR5 and Ikaros PROTAC degrader as an anti-cancer therapeutic. Oncogene, 2022, 41, 3328-3340. | 2.6 | 18 |
| 3 | Shape of promoter antisense RNAs regulates ligand-induced transcription activation. Nature, 2021, 595, 444-449. | 13.7 | 23 |
| 4 | SOX11 Inhibitors Are Cytotoxic in Mantle Cell Lymphoma. Clinical Cancer Research, 2021, 27, 4652-4663. | 3.2 | 6 |
| 5 | Structural basis of DNA synthesis opposite 8-oxoguanine by human PrimPol primase-polymerase. Nature Communications, 2021, 12, 4020. | 5.8 | 18 |
| 6 | FANCI functions as a repair/apoptosis switch in response to DNA crosslinks. Developmental Cell, 2021, 56, 2207-2222.e7. | 3.1 | 9 |
| 7 | Simultaneous CK2/TNIK/DYRK1 inhibition by 108600 suppresses triple negative breast cancer stem cells and chemotherapy-resistant disease. Nature Communications, 2021, 12, 4671. | 5.8 | 28 |
| 8 | A selective WDR5 degrader inhibits acute myeloid leukemia in patient-derived mouse models. Science Translational Medicine, 2021, 13, eabj1578. | 5 . 8 | 67 |
| 9 | Epigenomic characterization of Clostridioides difficile finds a conserved DNA methyltransferase that mediates sporulation and pathogenesis. Nature Microbiology, 2020, 5, 166-180. | 5.9 | 75 |
| 10 | Structure and mechanism of B-family DNA polymerase \hat{I}_{q} specialized for translesion DNA synthesis. Nature Structural and Molecular Biology, 2020, 27, 913-924. | 3 . 6 | 42 |
| 11 | A Contaminant Impurity, Not Rigosertib, Is a Tubulin Binding Agent. Molecular Cell, 2020, 79, 180-190.e4. | 4.5 | 14 |
| 12 | Structural insights into mutagenicity of anticancer nucleoside analog cytarabine during replication by DNA polymerase $\hat{\textbf{l}}\cdot$ Scientific Reports, 2019, 9, 16400. | 1.6 | 5 |
| 13 | Cryo-EM structure and dynamics of eukaryotic DNA polymerase δholoenzyme. Nature Structural and Molecular Biology, 2019, 26, 955-962. | 3.6 | 40 |
| 14 | Phase separation of ligand-activated enhancers licenses cooperative chromosomal enhancer assembly. Nature Structural and Molecular Biology, 2019, 26, 193-203. | 3 . 6 | 242 |
| 15 | Structural basis for polymerase η–promoted resistance to the anticancer nucleoside analog cytarabine. Scientific Reports, 2018, 8, 12702. | 1.6 | 11 |
| 16 | Eukaryotic DNA polymerases. Current Opinion in Structural Biology, 2018, 53, 77-87. | 2.6 | 84 |
| 17 | Dismissal of RNA Polymerase II Underlies a Large Ligand-Induced Enhancer Decommissioning Program. Molecular Cell, 2018, 71, 526-539.e8. | 4.5 | 17 |
| 18 | Targeting protein kinase CK2 and CDK4/6 pathways with a multi-kinase inhibitor ON108110 suppresses pro-survival signaling and growth in mantle cell lymphoma and T-acute lymphoblastic leukemia. Oncotarget, 2018, 9, 37753-37765. | 0.8 | 8 |

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| 19 | Development of a S-adenosylmethionine analog that intrudes the RNA-cap binding site of Zika methyltransferase. Scientific Reports, 2017, 7, 1632. | 1.6 | 25 |
| 20 | Physiological functions of programmed DNA breaks in signal-induced transcription. Nature Reviews Molecular Cell Biology, 2017, 18, 471-476. | 16.1 | 49 |
| 21 | Mechanism of error-free DNA synthesis across N1-methyl-deoxyadenosine by human DNA polymerase- \hat{l}^1 . Scientific Reports, 2017, 7, 43904. | 1.6 | 11 |
| 22 | Structure and Dynamics of an Intrinsically Disordered Protein Region That Partially Folds upon Binding by Chemical-Exchange NMR. Journal of the American Chemical Society, 2017, 139, 12219-12227. | 6.6 | 35 |
| 23 | Mechanism of error-free replication across benzo[a]pyrene stereoisomers by Rev1 DNA polymerase. Nature Communications, 2017, 8, 965. | 5.8 | 20 |
| 24 | The focal facial dermal dysplasias: phenotypic spectrum and molecular genetic heterogeneity. Journal of Medical Genetics, 2017, 54, 585-590. | 1.5 | 10 |
| 25 | Structure of the NS3 helicase from Zika virus. Nature Structural and Molecular Biology, 2016, 23, 752-754. | 3.6 | 86 |
| 26 | Human DNA polymerase \hat{l}_{\pm} in binary complex with a DNA:DNA template-primer. Scientific Reports, 2016, 6, 23784. | 1.6 | 36 |
| 27 | A Small Molecule RAS-Mimetic Disrupts RAS Association with Effector Proteins to Block Signaling. Cell, 2016, 165, 643-655. | 13.5 | 228 |
| 28 | Structures of NS5 Methyltransferase from Zika Virus. Cell Reports, 2016, 16, 3097-3102. | 2.9 | 78 |
| 29 | Structure and mechanism of human PrimPol, a DNA polymerase with primase activity. Science Advances, 2016, 2, e1601317. | 4.7 | 65 |
| 30 | Discovery of 2-(1H-indol-5-ylamino)-6-(2,4-difluorophenylsulfonyl)-8-methylpyrido[2,3-d]pyrimidin-7(8H)-one (7ao) as a potent selective inhibitor of Polo like kinase 2 (PLK2). Bioorganic and Medicinal Chemistry, 2016, 24, 521-544. | 1.4 | 21 |
| 31 | Inhibiting SOX11-DNA Interaction in Mantle Cell Lymphoma. Blood, 2016, 128, 1840-1840. | 0.6 | 2 |
| 32 | Structure of Type IIL Restriction-Modification Enzyme Mmel in Complex with DNA Has Implications for Engineering New Specificities. PLoS Biology, 2016, 14, e1002442. | 2.6 | 23 |
| 33 | An Inhibitor of PIDDosome Formation. Molecular Cell, 2015, 58, 767-779. | 4.5 | 26 |
| 34 | Ligand-Dependent Enhancer Activation Regulated by Topoisomerase-I Activity. Cell, 2015, 160, 367-380. | 13.5 | 122 |
| 35 | Phosphatidylinositol 4,5-Bisphosphate Clusters the Cell Adhesion Molecule CD44 and Assembles a Specific CD44-Ezrin Heterocomplex, as Revealed by Small Angle Neutron Scattering. Journal of Biological Chemistry, 2015, 290, 6639-6652. | 1.6 | 29 |
| 36 | Structural basis of asymmetric DNA methylation and ATP-triggered long-range diffusion by EcoP15I. Nature Communications, 2015, 6, 7363. | 5.8 | 51 |

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| 37 | Setleis syndrome: clinical, molecular and structural studies of the first <scp>TWIST2</scp> missense mutation. Clinical Genetics, 2015, 88, 489-493. | 1.0 | 12 |
| 38 | Crystal Structure of Yeast DNA Polymerase ε Catalytic Domain. PLoS ONE, 2014, 9, e94835. | 1.1 | 42 |
| 39 | Repurposing of bisphosphonates for the prevention and therapy of nonsmall cell lung and breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17995-18000. | 3.3 | 52 |
| 40 | Bisphosphonates inactivate human EGFRs to exert antitumor actions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17989-17994. | 3.3 | 57 |
| 41 | An Iron–Sulfur Cluster in the Polymerase Domain of Yeast DNA Polymerase Îμ. Journal of Molecular Biology, 2014, 426, 301-308. | 2.0 | 41 |
| 42 | Rigosertib Blocks RAS Signaling By Acting As a Small Molecule RAS Mimetic That Binds to the RAS-Binding Domains of RAS Effector Proteins. Blood, 2014, 124, 5616-5616. | 0.6 | 3 |
| 43 | Brd4 and JMJD6-Associated Anti-Pause Enhancers in Regulation of Transcriptional Pause Release. Cell, 2013, 155, 1581-1595. | 13.5 | 330 |
| 44 | The Architecture of Yeast DNA Polymerase ζ. Cell Reports, 2013, 5, 79-86. | 2.9 | 31 |
| 45 | The Ins and Outs of Bcr-Abl Inhibition. Genes and Cancer, 2012, 3, 447-454. | 0.6 | 93 |
| 46 | Artemis C-terminal region facilitates V(D)J recombination through its interactions with DNA Ligase IV and DNA-PKcs. Journal of Experimental Medicine, 2012, 209, 955-963. | 4.2 | 51 |
| 47 | Characterization of Type II and III Restriction-Modification Systems from Bacillus cereus Strains ATCC 10987 and ATCC 14579. Journal of Bacteriology, 2012, 194, 49-60. | 1.0 | 27 |
| 48 | Human DNA Polymerase η Is Pre-Aligned for dNTP Binding and Catalysis. Journal of Molecular Biology, 2012, 415, 627-634. | 2.0 | 37 |
| 49 | Structural Insights into the Assembly and Shape of Type III Restriction–Modification (R–M) EcoP15I Complex by Small-Angle X-ray Scattering. Journal of Molecular Biology, 2012, 420, 261-268. | 2.0 | 10 |
| 50 | Structure and Dynamics of the Second CARD of Human RIG-I Provide Mechanistic Insights into Regulation of RIG-I Activation. Structure, 2012, 20, 2048-2061. | 1.6 | 41 |
| 51 | Structural basis for cisplatin DNA damage tolerance by human polymerase $\hat{\mathbf{l}}$ during cancer chemotherapy. Nature Structural and Molecular Biology, 2012, 19, 628-632. | 3.6 | 72 |
| 52 | DNA Synthesis across an Abasic Lesion by Yeast Rev1 DNA Polymerase. Journal of Molecular Biology, 2011, 406, 18-28. | 2.0 | 35 |
| 53 | Role of Human DNA Polymerase κ in Extension Opposite from a cis–syn Thymine Dimer. Journal of Molecular Biology, 2011, 408, 252-261. | 2.0 | 22 |
| 54 | Crystallization and preliminary crystallographic analysis of the type IIL restriction enzyme <i>Mme </i> lin complex with DNA. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1262-1265. | 0.7 | 6 |

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| 55 | Asymmetric DNA recognition by the OkrAl endonuclease, an isoschizomer of BamHl. Nucleic Acids Research, 2011, 39, 712-719. | 6.5 | 132 |
| 56 | Structures of apo IRF-3 and IRF-7 DNA binding domains: effect of loop L1 on DNA binding. Nucleic Acids Research, 2011, 39, 7300-7307. | 6.5 | 17 |
| 57 | Structural Basis for Error-free Replication of Oxidatively Damaged DNA by Yeast DNA Polymerase î. Structure, 2010, 18, 1463-1470. | 1.6 | 29 |
| 58 | Structural basis for the suppression of skin cancers by DNA polymerase î. Nature, 2010, 465, 1039-1043. | 13.7 | 136 |
| 59 | PHF8 mediates histone H4 lysine 20 demethylation events involved in cell cycle progression. Nature, 2010, 466, 508-512. | 13.7 | 367 |
| 60 | Negative Role of RIG-I Serine 8 Phosphorylation in the Regulation of Interferon- \hat{l}^2 Production. Journal of Biological Chemistry, 2010, 285, 20252-20261. | 1.6 | 96 |
| 61 | Co-occupancy of two Pumilio molecules on a single hunchback NRE. Rna, 2009, 15, 1029-1035. | 1.6 | 24 |
| 62 | DNA Synthesis across an Abasic Lesion by Human DNA Polymerase \hat{l}^1 . Structure, 2009, 17, 530-537. | 1.6 | 32 |
| 63 | Replication across Template T/U by Human DNA Polymerase-ι. Structure, 2009, 17, 974-980. | 1.6 | 20 |
| 64 | Structural basis of high-fidelity DNA synthesis by yeast DNA polymerase \hat{l} . Nature Structural and Molecular Biology, 2009, 16, 979-986. | 3.6 | 236 |
| 65 | Structure of the Human Rev1–DNA–dNTP Ternary Complex. Journal of Molecular Biology, 2009, 390, 699-709. | 2.0 | 67 |
| 66 | Structural Insights into Yeast DNA Polymerase \hat{l} by Small Angle X-ray Scattering. Journal of Molecular Biology, 2009, 394, 377-382. | 2.0 | 38 |
| 67 | Structure of Human DNA Polymerase κ Inserting dATP Opposite an 8-OxoG DNA Lesion. PLoS ONE, 2009, 4, e5766. | 1.1 | 53 |
| 68 | Protein-Template-Directed Synthesis across an Acrolein-Derived DNA Adduct by Yeast Rev1 DNA Polymerase. Structure, 2008, 16, 239-245. | 1.6 | 59 |
| 69 | Structures of Human Pumilio with Noncognate RNAs Reveal Molecular Mechanisms for Binding Promiscuity. Structure, 2008, 16, 549-557. | 1.6 | 64 |
| 70 | Topology of Type II REases revisited; structural classes and the common conserved core. Nucleic Acids Research, 2007, 35, 2227-2237. | 6.5 | 37 |
| 71 | Functional Specificity of a Hox Protein Mediated by the Recognition of Minor Groove Structure. Cell, 2007, 131, 530-543. | 13.5 | 303 |
| 72 | An EM View of the Fokl Synaptic Complex by Single Particle Analysis. Journal of Molecular Biology, 2007, 370, 207-212. | 2.0 | 7 |

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| 73 | Human DNA Polymerase κ Encircles DNA: Implications for Mismatch Extension and Lesion Bypass. Molecular Cell, 2007, 25, 601-614. | 4.5 | 214 |
| 74 | Structure of IRF-3 Bound to the PRDIII-I Regulatory Element of the Human Interferon- \hat{l}^2 Enhancer. Molecular Cell, 2007, 26, 703-716. | 4. 5 | 88 |
| 75 | BstYl Bound to Noncognate DNA Reveals a "Hemispecific―Complex: Implications for DNA Scanning. Structure, 2007, 15, 449-459. | 1.6 | 29 |
| 76 | Solution Structure of the Vts1 SAM Domain in the Presence of RNA. Journal of Molecular Biology, 2006, 356, 1065-1072. | 2.0 | 15 |
| 77 | Hoogsteen base pair formation promotes synthesis opposite the 1,N6-ethenodeoxyadenosine lesion by human DNA polymerase \hat{l}^1 . Nature Structural and Molecular Biology, 2006, 13, 619-625. | 3 . 6 | 105 |
| 78 | An Incoming Nucleotide Imposes an anti to syn Conformational Change on the Templating Purine in the Human DNA Polymerase- \hat{l}^1 Active Site. Structure, 2006, 14, 749-755. | 1.6 | 60 |
| 79 | mRNA Regulation by Puf Domain Proteins. Science's STKE: Signal Transduction Knowledge Environment, 2006, 2006, pe37-pe37. | 4.1 | 47 |
| 80 | A view of consecutive binding events from structures of tetrameric endonucleaseSfil bound to DNA. EMBO Journal, 2005, 24, 4198-4208. | 3.5 | 52 |
| 81 | Hoogsteen base-pairing in DNA replication? (reply). Nature, 2005, 437, E7-E7. | 13.7 | 4 |
| 82 | Implications for Switching Restriction Enzyme Specificities from the Structure of BstYl Bound to a Bglll DNA Sequence. Structure, 2005, 13, 791-801. | 1.6 | 15 |
| 83 | Human DNA Polymerase \hat{l}^1 Incorporates dCTP Opposite Template G via a G.C+ Hoogsteen Base Pair. Structure, 2005, 13, 1569-1577. | 1.6 | 120 |
| 84 | Protein–nucleic acid interactions: unlocking mysteries old and new. Current Opinion in Structural Biology, 2005, 15, 65-67. | 2.6 | 1 |
| 85 | Proximity-induced activation of human Cdc34 through heterologous dimerization. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15053-15058. | 3.3 | 33 |
| 86 | Rev1 Employs a Novel Mechanism of DNA Synthesis Using a Protein Template. Science, 2005, 309, 2219-2222. | 6.0 | 224 |
| 87 | Structure of adeno-associated virus type 2 Rep40-ADP complex: Insight into nucleotide recognition and catalysis by superfamily 3 helicases. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12455-12460. | 3.3 | 39 |
| 88 | Residues within the B′ Motif Are Critical for DNA Binding by the Superfamily 3 Helicase Rep40 of Adeno-associated Virus Type 2. Journal of Biological Chemistry, 2004, 279, 50472-50481. | 1.6 | 42 |
| 89 | Dpo4 is hindered in extending a G·T mismatch by a reverse wobble. Nature Structural and Molecular Biology, 2004, 11, 457-462. | 3.6 | 68 |
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| 91 | Crystal Structure of the Catalytic Core of Human DNA Polymerase Kappa. Structure, 2004, 12, 1395-1404. | 1.6 | 107 |
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| 93 | A Corepressor/Coactivator Exchange Complex Required for Transcriptional Activation by Nuclear Receptors and Other Regulated Transcription Factors. Cell, 2004, 116, 511-526. | 13.5 | 493 |
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| 95 | Crystal Structure of the SF3 Helicase from Adeno-Associated Virus Type 2. Structure, 2003, 11, 1025-1035. | 1.6 | 96 |
| 96 | Crystallization of restriction endonucleaseSfil in complex with DNA. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 1493-1495. | 2.5 | 2 |
| 97 | Eya protein phosphatase activity regulates Six1–Dach–Eya transcriptional effects in mammalian organogenesis. Nature, 2003, 426, 247-254. | 13.7 | 571 |
| 98 | Glucocorticoid Receptor-like Zn(Cys)4 Motifs in Bsll Restriction Endonuclease. Journal of Molecular Biology, 2003, 334, 595-603. | 2.0 | 8 |
| 99 | Energetic and Structural Considerations for the Mechanism of Protein Sliding along DNA in the Nonspecific BamHI-DNA Complex. Biophysical Journal, 2003, 84, 3317-3325. | 0.2 | 28 |
| 100 | RNA Recognition via the SAM Domain of Smaug. Molecular Cell, 2003, 11, 1537-1548. | 4.5 | 103 |
| 101 | Deoxynucleotide Triphosphate Binding Mode Conserved in Y Family DNA Polymerases. Molecular and Cellular Biology, 2003, 23, 3008-3012. | 1.1 | 24 |
| 102 | Model of the Brain Tumor-Pumilio translation repressor complex. Genes and Development, 2003, 17, 2508-2513. | 2.7 | 97 |
| 103 | New Class of Inhibitors of Amyloid- \hat{l}^2 Fibril Formation. Journal of Biological Chemistry, 2002, 277, 42881-42890. | 1.6 | 133 |
| 104 | Crystallization and characterization of Smaug: a novel RNA-binding motif. Biochemical and Biophysical Research Communications, 2002, 297, 1085-1088. | 1.0 | 8 |
| 105 | Transcription Corepressor CtBP Is an NAD+-Regulated Dehydrogenase. Molecular Cell, 2002, 10, 857-869. | 4.5 | 252 |
| 106 | Crystal Structure of PU.1/IRF-4/DNA Ternary Complex. Molecular Cell, 2002, 10, 1097-1105. | 4.5 | 151 |
| 107 | Translational repressors in Drosophila. Trends in Genetics, 2002, 18, 572-576. | 2.9 | 19 |
| 108 | Structure of NF-κB p50/p65 Heterodimer Bound to the PRDII DNA Element from the Interferon-κ Promoter. Structure, 2002, 10, 383-391. | 1.6 | 69 |

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| 109 | Fokl requires two specific DNA sites for cleavage. Journal of Molecular Biology, 2001, 309, 69-78. | 2.0 | 160 |
| 110 | Structure of the Catalytic Core of S. cerevisiae DNA Polymerase η. Molecular Cell, 2001, 8, 417-426. | 4.5 | 347 |
| 111 | Structure of Pumilio Reveals Similarity between RNA and Peptide Binding Motifs. Cell, 2001, 105, 281-289. | 13.5 | 237 |
| 112 | Structure of free BglII reveals an unprecedented scissor-like motion for opening an endonuclease. Nature Structural Biology, 2001, 8, 126-130. | 9.7 | 16 |
| 113 | Amino-Terminal Domain Exchange Redirects Origin-Specific Interactions of Adeno-Associated Virus Rep78 In Vitro. Journal of Virology, 2001, 75, 3230-3239. | 1.5 | 24 |
| 114 | Understanding the immutability of restriction enzymes: crystal structure of BglII and its DNA substrate at 1.5 A resolution. Nature Structural Biology, 2000, 7, 134-140. | 9.7 | 104 |
| 115 | Crystallization of Restriction Endonuclease BamHI with Nonspecific DNA. Journal of Structural Biology, 2000, 130, 81-85. | 1.3 | 12 |
| 116 | Gene Repression by Coactivator Repulsion. Molecular Cell, 2000, 6, 931-937. | 4.5 | 69 |
| 117 | Structure of BamHI Bound to Nonspecific DNA. Molecular Cell, 2000, 5, 889-895. | 4.5 | 168 |
| 118 | Allosteric Effects of Pit-1 DNA Sites on Long-Term Repression in Cell Type Specification. Science, 2000, 290, 1127-1131. | 6.0 | 227 |
| 119 | Structure of a DNA-bound Ultrabithorax–Extradenticle homeodomain complex. Nature, 1999, 397, 714-719. | 13.7 | 296 |
| 120 | Structure and ligand of a histone acetyltransferase bromodomain. Nature, 1999, 399, 491-496. | 13.7 | 1,501 |
| 121 | 1H, 15N and 13C resonance assignments for the bromodomain of the histone acetyltransferase P/CAF. Journal of Biomolecular NMR, 1999, 14, 291-292. | 1.6 | 4 |
| 122 | Reciprocal Interactions of Pit1 and GATA2 Mediate Signaling Gradient–Induced Determination of Pituitary Cell Types. Cell, 1999, 97, 587-598. | 13.5 | 292 |
| 123 | Structure of IRF-1 with bound DNA reveals determinants of interferon regulation. Nature, 1998, 391, 103-106. | 13.7 | 366 |
| 124 | The role of metals in catalysis by the restriction endonuclease BamHI. Nature Structural Biology, 1998, 5, 910-916. | 9.7 | 144 |
| 125 | Signal-specific co-activator domain requirements for Pit-1 activation. Nature, 1998, 395, 301-306. | 13.7 | 273 |
| 126 | Crystallization and preliminary X-ray analysis of restriction endonuclease Fok I bound to DNA. FEBS Letters, 1997, 403, 136-138. | 1.3 | 7 |

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| 127 | Homing in on intron-encoded endonucleases. Nature Structural Biology, 1997, 4, 423-424. | 9.7 | 3 |
| 128 | Structure of the multimodular endonuclease Fokl bound to DNA. Nature, 1997, 388, 97-100. | 13.7 | 256 |
| 129 | Crystallization and preliminary X-ray analysis of Pit-1 POU domain complexed to a 28 base pair DNA element., 1996, 24, 263-265. | | 12 |
| 130 | Purification, crystallization, and preliminary X-ray diffraction analysis of even-skipped homeodomain complexed to DNA. Proteins: Structure, Function and Bioinformatics, 1995, 21, 268-271. | 1.5 | 4 |
| 131 | Structure and function of restriction endonucleases. Current Opinion in Structural Biology, 1995, 5, 11-19. | 2.6 | 184 |
| 132 | Overexpression, purification and crystallization of BamHI endonuclease. Nucleic Acids Research, 1991, 19, 1825-1829. | 6.5 | 29 |
| 133 | DNA Recognition by Proteins with the Helix-Turn-Helix Motif. Annual Review of Biochemistry, 1990, 59, 933-969. | 5.0 | 586 |