# Walter J Chazin

## List of Publications by Citations



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|---|---|---|---|
| 187 papers | 12,652 citations | 63 h-index | 108 g-index |
| 239 ext. papers | 14,598 ext. citations | 9.6 avg, IF | 6.46 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 187 | Replication protein A: a heterotrimeric, single-stranded DNA-binding protein required for eukaryotic DNA metabolism. *Annual Review of Biochemistry*, **1997**, 66, 61-92 | 29.1 | 1155 |
| 186 | Metal chelation and inhibition of bacterial growth in tissue abscesses. *Science*, **2008**, 319, 962-5 | 33.3 | 627 |
| 185 | RPA involvement in the damage-recognition and incision steps of nucleotide excision repair. *Nature* , **1995**, 374, 566-9 | 50.4 | 371 |
| 184 | Nutrient metal sequestration by calprotectin inhibits bacterial superoxide defense, enhancing neutrophil killing of Staphylococcus aureus. *Cell Host and Microbe*, **2011**, 10, 158-64 | 23.4 | 273 |
| 183 | Suppression of the effects of cross-correlation between dipolar and anisotropic chemical shift relaxation mechanisms in the measurement of spin-spin relaxation rates. *Molecular Physics*, **1992**, 75, 699-711 | 1.7 | 272 |
| 182 | Calmodulin mutations associated with recurrent cardiac arrest in infants. *Circulation*, **2013**, 127, 1009-17 | 16.7 | 262 |
| 181 | Rotational diffusion anisotropy of proteins from simultaneous analysis of 15N and 13C alpha nuclear spin relaxation. *Journal of Biomolecular NMR*, **1997**, 9, 287-98 | 3 | 246 |
| 180 | Molecular basis for manganese sequestration by calprotectin and roles in the innate immune response to invading bacterial pathogens. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3841-6 | 11.5 | 245 |
| 179 | Zinc sequestration by the neutrophil protein calprotectin enhances Salmonella growth in the inflamed gut. *Cell Host and Microbe*, **2012**, 11, 227-39 | 23.4 | 243 |
| 178 | Replication protein A phosphorylation and the cellular response to DNA damage. *DNA Repair*, **2004**, 3, 1015-24 | 4.3 | 232 |
| 177 | S100A8/A9 at low concentration promotes tumor cell growth via RAGE ligation and MAP kinase-dependent pathway. *Journal of Leukocyte Biology*, **2008**, 83, 1484-92 | 6.5 | 221 |
| 176 | Structure of an E3:E2~Ub complex reveals an allosteric mechanism shared among RING/U-box ligases. *Molecular Cell*, **2012**, 47, 933-42 | 17.6 | 217 |
| 175 | Structural insights into the U-box, a domain associated with multi-ubiquitination. *Nature Structural and Molecular Biology*, **2003**, 10, 250-5 | 17.6 | 216 |
| 174 | Interactions of human replication protein A with oligonucleotides. *Biochemistry*, **1994**, 33, 14197-206 | 3.2 | 200 |
| 173 | Structural basis for the recognition of DNA repair proteins UNG2, XPA, and RAD52 by replication factor RPA. *Cell*, **2000**, 103, 449-56 | 56.2 | 191 |
| 172 | Target selectivity in EF-hand calcium binding proteins. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2004**, 1742, 69-79 | 4.9 | 188 |
| 171 | Identification of an Acinetobacter baumannii zinc acquisition system that facilitates resistance to calprotectin-mediated zinc sequestration. *PLoS Pathogens*, **2012**, 8, e1003068 | 7.6 | 184 |

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| 170 | High level expression and dimer characterization of the S100 EF-hand proteins, migration inhibitory factor-related proteins 8 and 14. *Journal of Biological Chemistry*, **1998**, 273, 12427-35 | 5.4 | 165 |
| 169 | Structural basis for ligand recognition and activation of RAGE. *Structure*, **2010**, 18, 1342-52 | 5.2 | 164 |
| 168 | Structures of EF-hand Ca(2+)-binding proteins: diversity in the organization, packing and response to Ca2+ binding. *BioMetals*, **1998**, 11, 297-318 | 3.4 | 160 |
| 167 | The structure of calcyclin reveals a novel homodimeric fold for S100 Ca(2+)-binding proteins. *Nature Structural and Molecular Biology*, **1995**, 2, 790-6 | 17.6 | 158 |
| 166 | MntABC and MntH contribute to systemic Staphylococcus aureus infection by competing with calprotectin for nutrient manganese. *Infection and Immunity*, **2013**, 81, 3395-405 | 3.7 | 143 |
| 165 | Replication protein A: single-stranded DNA's first responder: dynamic DNA-interactions allow replication protein A to direct single-strand DNA intermediates into different pathways for synthesis or repair. *BioEssays*, **2014**, 36, 1156-61 | 4.1 | 139 |
| 164 | The basic cleft of RPA70N binds multiple checkpoint proteins, including RAD9, to regulate ATR signaling. *Molecular and Cellular Biology*, **2008**, 28, 7345-53 | 4.8 | 137 |
| 163 | Signal transduction versus buffering activity in Ca(2+)-binding proteins. *Nature Structural and Molecular Biology*, **1994**, 1, 239-45 | 17.6 | 137 |
| 162 | Nutritional Immunity: S100 Proteins at the Host-Pathogen Interface. *Journal of Biological Chemistry*, **2015**, 290, 18991-8 | 5.4 | 136 |
| 161 | Dietary zinc alters the microbiota and decreases resistance to Clostridium difficile infection. *Nature Medicine*, **2016**, 22, 1330-1334 | 50.5 | 136 |
| 160 | The extracellular region of the receptor for advanced glycation end products is composed of two independent structural units. *Biochemistry*, **2007**, 46, 6957-70 | 3.2 | 134 |
| 159 | Novel calmodulin mutations associated with congenital arrhythmia susceptibility. *Circulation: Cardiovascular Genetics*, **2014**, 7, 466-74 | | 133 |
| 158 | ETAA1 acts at stalled replication forks to maintain genome integrity. *Nature Cell Biology*, **2016**, 18, 1185-1195 | 21.4 | 132 |
| 157 | An interaction-based analysis of calcium-induced conformational changes in Ca2+ sensor proteins. *Protein Science*, **1998**, 7, 270-82 | 6.3 | 109 |
| 156 | RADX Promotes Genome Stability and Modulates Chemosensitivity by Regulating RAD51 at Replication Forks. *Molecular Cell*, **2017**, 67, 374-386.e5 | 17.6 | 98 |
| 155 | Promotion of BRCA2-Dependent Homologous Recombination by DSS1 via RPA Targeting and DNA Mimicry. *Molecular Cell*, **2015**, 59, 176-87 | 17.6 | 97 |
| 154 | Independent and coordinated functions of replication protein A tandem high affinity single-stranded DNA binding domains. *Journal of Biological Chemistry*, **2003**, 278, 41077-82 | 5.4 | 97 |
| 153 | Divergent regulation of ryanodine receptor 2 calcium release channels by arrhythmogenic human calmodulin missense mutants. *Circulation Research*, **2014**, 114, 1114-24 | 15.7 | 96 |

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| 152 | An iron-sulfur cluster in the C-terminal domain of the p58 subunit of human DNA primase. *Journal of Biological Chemistry*, **2007**, 282, 33444-33451 | 5.4 | 95 |
| 151 | Solution NMR structure of Apo-calmodulin in complex with the IQ motif of human cardiac sodium channel NaV1.5. *Journal of Molecular Biology*, **2011**, 406, 106-19 | 6.5 | 92 |
| 150 | Zinc and Manganese Chelation by Neutrophil S100A8/A9 (Calprotectin) Limits Extracellular Aspergillus fumigatus Hyphal Growth and Corneal Infection. *Journal of Immunology*, **2016**, 196, 336-44 | 5.3 | 91 |
| 149 | Relating form and function of EF-hand calcium binding proteins. *Accounts of Chemical Research*, **2011**, 44, 171-9 | 24.3 | 90 |
| 148 | Reconstitution of RPA-covered single-stranded DNA-activated ATR-Chk1 signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13660-5 | 11.5 | 90 |
| 147 | Diffusion of human replication protein A along single-stranded DNA. *Journal of Molecular Biology*, **2014**, 426, 3246-3261 | 6.5 | 85 |
| 146 | Cellular functions of human RPA1. Multiple roles of domains in replication, repair, and checkpoints. *Journal of Biological Chemistry*, **2008**, 283, 19095-111 | 5.4 | 84 |
| 145 | The [4Fe4S] cluster of human DNA primase functions as a redox switch using DNA charge transport. *Science*, **2017**, 355, | 33.3 | 82 |
| 144 | Physical interaction between replication protein A and Rad51 promotes exchange on single-stranded DNA. *Journal of Biological Chemistry*, **2004**, 279, 25638-45 | 5.4 | 82 |
| 143 | The EF-hand domain: a globally cooperative structural unit. *Protein Science*, **2002**, 11, 198-205 | 6.3 | 80 |
| 142 | The Response of Acinetobacter baumannii to Zinc Starvation. *Cell Host and Microbe*, **2016**, 19, 826-36 | 23.4 | 79 |
| 141 | Data publication with the structural biology data grid supports live analysis. *Nature Communications* , **2016**, 7, 10882 | 17.4 | 78 |
| 140 | Spectrum and Prevalence of CALM1-, CALM2-, and CALM3-Encoded Calmodulin Variants in Long QT Syndrome and Functional Characterization of a Novel Long QT Syndrome-Associated Calmodulin Missense Variant, E141G. *Circulation: Cardiovascular Genetics*, **2016**, 9, 136-146 | | 77 |
| 139 | The phosphorylation domain of the 32-kDa subunit of replication protein A (RPA) modulates RPA-DNA interactions. Evidence for an intersubunit interaction. *Journal of Biological Chemistry*, **2003**, 278, 35584-91 | 5.4 | 77 |
| 138 | Salmonella Mitigates Oxidative Stress and Thrives in the Inflamed Gut by Evading Calprotectin-Mediated Manganese Sequestration. *Cell Host and Microbe*, **2016**, 19, 814-25 | 23.4 | 74 |
| 137 | Human replication protein A: global fold of the N-terminal RPA-70 domain reveals a basic cleft and flexible C-terminal linker. *Journal of Biomolecular NMR*, **1999**, 14, 321-31 | 3 | 74 |
| 136 | Insights into hRPA32 C-terminal domain--mediated assembly of the simian virus 40 replisome. *Nature Structural and Molecular Biology*, **2005**, 12, 332-9 | 17.6 | 71 |
| 135 | The innate immune protein calprotectin promotes Pseudomonas aeruginosa and Staphylococcus aureus interaction. *Nature Communications*, **2016**, 7, 11951 | 17.4 | 70 |

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| 134 | XPA: A key scaffold for human nucleotide excision repair. *DNA Repair*, **2016**, 44, 123-135 | 4.3 | 68 |
| 133 | Interactions of human nucleotide excision repair protein XPA with DNA and RPA70 Delta C327: chemical shift mapping and 15N NMR relaxation studies. *Biochemistry*, **1999**, 38, 15116-28 | 3.2 | 68 |
| 132 | Acinetobacter baumannii response to host-mediated zinc limitation requires the transcriptional regulator Zur. *Journal of Bacteriology*, **2014**, 196, 2616-26 | 3.5 | 67 |
| 131 | Insights into eukaryotic DNA priming from the structure and functional interactions of the 4Fe-4S cluster domain of human DNA primase. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13684-9 | 11.5 | 66 |
| 130 | Single-molecule imaging reveals the mechanism of Exo1 regulation by single-stranded DNA binding proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E1170-9 | 11.5 | 65 |
| 129 | The host protein calprotectin modulates the Helicobacter pylori cag type IV secretion system via zinc sequestration. *PLoS Pathogens*, **2014**, 10, e1004450 | 7.6 | 65 |
| 128 | Role of Calprotectin in Withholding Zinc and Copper from Candida albicans. *Infection and Immunity*, **2018**, 86, | 3.7 | 65 |
| 127 | Structural mechanisms of DNA replication, repair, and recombination. *Journal of Biological Chemistry*, **2004**, 279, 30915-8 | 5.4 | 64 |
| 126 | Replication protein A interactions with DNA: differential binding of the core domains and analysis of the DNA interaction surface. *Biochemistry*, **2003**, 42, 12909-18 | 3.2 | 64 |
| 125 | Human PrimPol is a highly error-prone polymerase regulated by single-stranded DNA binding proteins. *Nucleic Acids Research*, **2015**, 43, 1056-68 | 20.1 | 63 |
| 124 | A new structural framework for integrating replication protein A into DNA processing machinery. *Nucleic Acids Research*, **2013**, 41, 2313-27 | 20.1 | 62 |
| 123 | Structural mechanism of RPA loading on DNA during activation of a simple pre-replication complex. *EMBO Journal*, **2006**, 25, 5516-26 | 13 | 61 |
| 122 | Biochemical and structural domain analysis of xeroderma pigmentosum complementation group C protein. *Biochemistry*, **2006**, 45, 14965-79 | 3.2 | 60 |
| 121 | Novel CPVT-Associated Calmodulin Mutation in CALM3 (CALM3-A103V) Activates Arrhythmogenic Ca Waves and Sparks. *Circulation: Arrhythmia and Electrophysiology*, **2016**, 9, | 6.4 | 59 |
| 120 | Rational design of a functional metalloenzyme: introduction of a site for manganese binding and oxidation into a heme peroxidase. *Biochemistry*, **1998**, 37, 16853-62 | 3.2 | 59 |
| 119 | Zinc piracy as a mechanism of Neisseria meningitidis for evasion of nutritional immunity. *PLoS Pathogens*, **2013**, 9, e1003733 | 7.6 | 57 |
| 118 | Analysis of the human replication protein A:Rad52 complex: evidence for crosstalk between RPA32, RPA70, Rad52 and DNA. *Journal of Molecular Biology*, **2002**, 321, 133-48 | 6.5 | 57 |
| 117 | A slipped-CAG DNA-binding small molecule induces trinucleotide-repeat contractions in vivo. *Nature Genetics*, **2020**, 52, 146-159 | 36.3 | 54 |

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| 116 | RPA Interacts with HIRA and Regulates H3.3 Deposition at Gene Regulatory Elements in Mammalian Cells. *Molecular Cell*, **2017**, 65, 272-284 | 17.6 | 51 |
| 115 | Replication protein A prevents accumulation of single-stranded telomeric DNA in cells that use alternative lengthening of telomeres. *Nucleic Acids Research*, **2007**, 35, 7267-78 | 20.1 | 49 |
| 114 | Discovery of a potent inhibitor of replication protein a protein-protein interactions using a fragment-linking approach. *Journal of Medicinal Chemistry*, **2013**, 56, 9242-50 | 8.3 | 48 |
| 113 | Molecular basis for PrimPol recruitment to replication forks by RPA. *Nature Communications*, **2017**, 8, 15222 | 17.4 | 47 |
| 112 | The Human Antimicrobial Protein Calgranulin C Participates in Control of Helicobacter pylori Growth and Regulation of Virulence. *Infection and Immunity*, **2015**, 83, 2944-56 | 3.7 | 47 |
| 111 | High resolution solution structure of apo calcyclin and structural variations in the S100 family of calcium-binding proteins. *Journal of Biomolecular NMR*, **1999**, 13, 233-47 | 3 | 46 |
| 110 | Arrhythmogenic Calmodulin Mutations Affect the Activation and Termination of Cardiac Ryanodine Receptor-mediated Ca2+ Release. *Journal of Biological Chemistry*, **2015**, 290, 26151-62 | 5.4 | 45 |
| 109 | Dynamic binding of replication protein a is required for DNA repair. *Nucleic Acids Research*, **2016**, 44, 5758-72 | 20.1 | 45 |
| 108 | Binding-Induced Activation of DNA Alkylation by Duocarmycin SA: Insights from the Structure of an Indole DerivativeDNA Adduct. *Journal of the American Chemical Society*, **1999**, 121, 5645-5652 | 16.4 | 43 |
| 107 | Phosphorylation of human replication protein A by the DNA-dependent protein kinase is involved in the modulation of DNA replication. *Nucleic Acids Research*, **1996**, 24, 3107-12 | 20.1 | 42 |
| 106 | Novel calmodulin mutations associated with congenital long QT syndrome affect calcium current in human cardiomyocytes. *Heart Rhythm*, **2016**, 13, 2012-9 | 6.7 | 41 |
| 105 | Binding of transition metals to S100 proteins. *Science China Life Sciences*, **2016**, 59, 792-801 | 8.5 | 40 |
| 104 | Acinetobacter baumannii Coordinates Urea Metabolism with Metal Import To Resist Host-Mediated Metal Limitation. *MBio*, **2016**, 7, | 7.8 | 40 |
| 103 | Discovery of a potent stapled helix peptide that binds to the 70N domain of replication protein A. *Journal of Medicinal Chemistry*, **2014**, 57, 2455-61 | 8.3 | 39 |
| 102 | Calprotectin Increases the Activity of the SaeRS Two Component System and Murine Mortality during Staphylococcus aureus Infections. *PLoS Pathogens*, **2015**, 11, e1005026 | 7.6 | 38 |
| 101 | NMR analysis of the architecture and functional remodeling of a modular multidomain protein, RPA. *Journal of the American Chemical Society*, **2009**, 131, 6346-7 | 16.4 | 38 |
| 100 | Quantitative measurements of the cooperativity in an EF-hand protein with sequential calcium binding. *Protein Science*, **1995**, 4, 1038-44 | 6.3 | 38 |
| 99 | Dietary Manganese Promotes Staphylococcal Infection of the Heart. *Cell Host and Microbe*, **2017**, 22, 531-542.e8 | 23.4 | 37 |

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| 98 | E2 conjugating enzyme selectivity and requirements for function of the E3 ubiquitin ligase CHIP. *Journal of Biological Chemistry*, **2011**, 286, 21277-86 | 5.4 | 37 |
| 97 | Xeroderma pigmentosum complementation group C protein (XPC) serves as a general sensor of damaged DNA. *DNA Repair*, **2013**, 12, 947-53 | 4.3 | 36 |
| 96 | An Acinetobacter baumannii, Zinc-Regulated Peptidase Maintains Cell Wall Integrity during Immune-Mediated Nutrient Sequestration. *Cell Reports*, **2019**, 26, 2009-2018.e6 | 10.6 | 36 |
| 95 | Dynamics and selective remodeling of the DNA-binding domains of RPA. *Nature Structural and Molecular Biology*, **2019**, 26, 129-136 | 17.6 | 35 |
| 94 | Multi-metal Restriction by Calprotectin Impacts De Novo Flavin Biosynthesis in Acinetobacter baumannii. *Cell Chemical Biology*, **2019**, 26, 745-755.e7 | 8.2 | 35 |
| 93 | Activation of UbcH5c~Ub is the result of a shift in interdomain motions of the conjugate bound to U-box E3 ligase E4B. *Biochemistry*, **2013**, 52, 2991-9 | 3.2 | 35 |
| 92 | Structural dynamics and single-stranded DNA binding activity of the three N-terminal domains of the large subunit of replication protein A from small angle X-ray scattering. *Biochemistry*, **2010**, 49, 2880-9 | 3.2 | 34 |
| 91 | Engineering a ubiquitin ligase reveals conformational flexibility required for ubiquitin transfer. *Journal of Biological Chemistry*, **2009**, 284, 26797-802 | 5.4 | 34 |
| 90 | Engineering and design of ligand-induced conformational change in proteins. *Current Opinion in Structural Biology*, **2002**, 12, 459-63 | 8.1 | 34 |
| 89 | DNA replication but not nucleotide excision repair is required for UVC-induced replication protein A phosphorylation in mammalian cells. *Molecular and Cellular Biology*, **2000**, 20, 2696-705 | 4.8 | 34 |
| 88 | A high-throughput fluorescence polarization anisotropy assay for the 70N domain of replication protein A. *Analytical Biochemistry*, **2012**, 421, 742-9 | 3.1 | 33 |
| 87 | A Mechanism of Calmodulin Modulation of the Human Cardiac Sodium Channel. *Structure*, **2018**, 26, 683-694.e3 | 5.2 | 32 |
| 86 | 1H NMR assignments of apo calcyclin and comparative structural analysis with calbindin D9k and S100 beta. *Protein Science*, **1996**, 5, 2162-74 | 6.3 | 32 |
| 85 | Zinc regulates a switch between primary and alternative S18 ribosomal proteins in Mycobacterium tuberculosis. *Molecular Microbiology*, **2015**, 97, 263-80 | 4.1 | 30 |
| 84 | CacyBP/SIP--Structure and variety of functions. *Biochimica Et Biophysica Acta - General Subjects*, **2016**, 1860, 79-85 | 4 | 30 |
| 83 | Helicobacter pylori Resists the Antimicrobial Activity of Calprotectin via Lipid A Modification and Associated Biofilm Formation. *MBio*, **2015**, 6, e01349-15 | 7.8 | 30 |
| 82 | Human DNA helicase B (HDHB) binds to replication protein A and facilitates cellular recovery from replication stress. *Journal of Biological Chemistry*, **2012**, 287, 6469-81 | 5.4 | 30 |
| 81 | Redefining the DNA-binding domain of human XPA. *Journal of the American Chemical Society*, **2014**, 136, 10830-3 | 16.4 | 29 |

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| 80 | Regulatory functions of the N-terminal domain of the 70-kDa subunit of replication protein A (RPA). *Journal of Biological Chemistry*, **2008**, 283, 21559-70 | 5.4 | 28 |
| 79 | A naturally occurring human RPA subunit homolog does not support DNA replication or cell-cycle progression. *Nucleic Acids Research*, **2010**, 38, 846-58 | 20.1 | 27 |
| 78 | Structural and functional characterization of the monomeric U-box domain from E4B. *Biochemistry*, **2010**, 49, 347-55 | 3.2 | 27 |
| 77 | Mechanochemical regulations of RPA□ binding to ssDNA. *Scientific Reports*, **2015**, 5, 9296 | 4.9 | 26 |
| 76 | Novel function of the Fanconi anemia group J or RECQ1 helicase to disrupt protein-DNA complexes in a replication protein A-stimulated manner. *Journal of Biological Chemistry*, **2014**, 289, 19928-41 | 5.4 | 26 |
| 75 | Repair-specific functions of replication protein A. *Journal of Biological Chemistry*, **2012**, 287, 3908-18 | 5.4 | 26 |
| 74 | S100 Proteins in the Innate Immune Response to Pathogens. *Methods in Molecular Biology*, **2019**, 1929, 275-290 | 1.4 | 25 |
| 73 | Characterization of the N-terminal half-saturated state of calbindin D9k: NMR studies of the N56A mutant. *Protein Science*, **1995**, 4, 1045-55 | 6.3 | 24 |
| 72 | Functional characterization of a cancer causing mutation in human replication protein A. *Molecular Cancer Research*, **2010**, 8, 1017-26 | 6.6 | 23 |
| 71 | Characteristics and concepts of dynamic hub proteins in DNA processing machinery from studies of RPA. *Progress in Biophysics and Molecular Biology*, **2015**, 117, 206-211 | 4.7 | 22 |
| 70 | BID binds to replication protein A and stimulates ATR function following replicative stress. *Molecular and Cellular Biology*, **2011**, 31, 4298-309 | 4.8 | 22 |
| 69 | Functional dynamics in replication protein A DNA binding and protein recruitment domains. *Structure*, **2015**, 23, 1028-38 | 5.2 | 21 |
| 68 | Solution Structure of the Complex between the Head-to-Tail Dimer of Calicheamicin □I Oligosaccharide and a DNA Duplex Containing d(ACCT) and d(TCCT) High-Affinity Binding Sites. *Journal of the American Chemical Society*, **1998**, 120, 7183-7191 | 16.4 | 21 |
| 67 | Genetic Mosaicism in Calmodulinopathy. *Circulation Genomic and Precision Medicine*, **2019**, 12, 375-385 | 5.2 | 20 |
| 66 | Insights into eukaryotic primer synthesis from structures of the p48 subunit of human DNA primase. *Journal of Molecular Biology*, **2014**, 426, 558-69 | 6.5 | 20 |
| 65 | Structural analysis of replication protein A recruitment of the DNA damage response protein SMARCAL1. *Biochemistry*, **2014**, 53, 3052-61 | 3.2 | 20 |
| 64 | Molecular Dynamics Docking Driven by NMR-Derived Restraints to Determine the Structure of the Calicheamicin □I Oligosaccharide Domain Complexed to Duplex DNA. *Magnetic Resonance in Chemistry*, **1996**, 34, S147-S155 | 2.1 | 20 |
| 63 | Arachidonic Acid Kills Staphylococcus aureus through a Lipid Peroxidation Mechanism. *MBio*, **2019**, 10, | 7.8 | 20 |

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| 62 | Identifying the substrate proteins of U-box E3s E4B and CHIP by orthogonal ubiquitin transfer. *Science Advances*, **2018**, 4, e1701393 | 14.3 | 19 |
| 61 | Ubiquitin turnover and endocytic trafficking in yeast are regulated by Ser57 phosphorylation of ubiquitin. *ELife*, **2017**, 6, | 8.9 | 19 |
| 60 | Biochemical and Proteomic Analysis of Ubiquitination of Hsc70 and Hsp70 by the E3 Ligase CHIP. *PLoS ONE*, **2015**, 10, e0128240 | 3.7 | 19 |
| 59 | Disrupted structure and aberrant function of CHIP mediates the loss of motor and cognitive function in preclinical models of SCAR16. *PLoS Genetics*, **2018**, 14, e1007664 | 6 | 19 |
| 58 | Molecular Basis for the Interaction Between AP4 ∅ and its Accessory Protein, Tepsin. *Traffic*, **2016**, 17, 400-15 | 5.7 | 16 |
| 57 | Dimerization and phosphatase activity of calcyclin-binding protein/Siah-1 interacting protein: the influence of oxidative stress. *FASEB Journal*, **2015**, 29, 1711-24 | 0.9 | 16 |
| 56 | Envisioning how the prototypic molecular machine TFIIH functions in transcription initiation and DNA repair. *DNA Repair*, **2020**, 96, 102972 | 4.3 | 16 |
| 55 | Diphenylpyrazoles as replication protein a inhibitors. *ACS Medicinal Chemistry Letters*, **2015**, 6, 140-5 | 4.3 | 15 |
| 54 | Calmodulin Mutations Associated with Heart Arrhythmia: A Status Report. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 15 |
| 53 | Characterization of binding-induced changes in dynamics suggests a model for sequence-nonspecific binding of ssDNA by replication protein A. *Protein Science*, **2002**, 11, 2316-25 | 6.3 | 15 |
| 52 | A minimal threshold of FANCJ helicase activity is required for its response to replication stress or double-strand break repair. *Nucleic Acids Research*, **2018**, 46, 6238-6256 | 20.1 | 15 |
| 51 | The Innate Immune Protein S100A9 Protects from T-Helper Cell Type 2-mediated Allergic Airway Inflammation. *American Journal of Respiratory Cell and Molecular Biology*, **2019**, 61, 459-468 | 5.7 | 14 |
| 50 | Surface reengineering of RPA70N enables cocrystallization with an inhibitor of the replication protein A interaction motif of ATR interacting protein. *Biochemistry*, **2013**, 52, 6515-24 | 3.2 | 14 |
| 49 | The biochemical effect of Ser167 phosphorylation on Chlamydomonas reinhardtii centrin. *Biochemical and Biophysical Research Communications*, **2006**, 342, 342-8 | 3.4 | 14 |
| 48 | Prp40 Homolog A Is a Novel Centrin Target. *Biophysical Journal*, **2017**, 112, 2529-2539 | 2.9 | 13 |
| 47 | Calprotectin protects against experimental colonic inflammation in mice. *British Journal of Pharmacology*, **2018**, 175, 3797-3812 | 8.6 | 13 |
| 46 | Determination of the metal-binding cooperativity of wild-type and mutant calbindin D9K by electrospray ionization mass spectrometry. *Rapid Communications in Mass Spectrometry*, **1999**, 13, 548-55 | 2.2 | 13 |
| 45 | A key interaction with RPA orients XPA in NER complexes. *Nucleic Acids Research*, **2020**, 48, 2173-2188 | 20.1 | 13 |

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| 44 | Chemical shift homology in proteins. *Journal of Biomolecular NMR*, **1998**, 11, 45-57 | 3 | 12 |
| 43 | ZupT Facilitates Clostridioides difficile Resistance to Host-Mediated Nutritional Immunity. *MSphere*, **2020**, 5, | 5 | 11 |
| 42 | The novel interaction between Neisseria gonorrhoeae TdfJ and human S100A7 allows gonococci to subvert host zinc restriction. *PLoS Pathogens*, **2019**, 15, e1007937 | 7.6 | 11 |
| 41 | Analysis of DNA binding by human factor xeroderma pigmentosum complementation group A (XPA) provides insight into its interactions with nucleotide excision repair substrates. *Journal of Biological Chemistry*, **2017**, 292, 16847-16857 | 5.4 | 11 |
| 40 | The anti-parasitic agent suramin and several of its analogues are inhibitors of the DNA binding protein Mcm10. *Open Biology*, **2019**, 9, 190117 | 7 | 10 |
| 39 | Yeast require redox switching in DNA primase. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 13186-13191 | 11.5 | 10 |
| 38 | Calcium-Dependent Regulation of Ion Channels **2006**, 1, 203-212 | | 9 |
| 37 | Identification and Optimization of Anthranilic Acid Based Inhibitors of Replication Protein A. *ChemMedChem*, **2016**, 11, 893-9 | 3.7 | 9 |
| 36 | Neutrophil extracellular traps enhance macrophage killing of bacterial pathogens. *Science Advances* , **2021**, 7, eabj2101 | 14.3 | 9 |
| 35 | EXO5-DNA structure and BLM interactions direct DNA resection critical for ATR-dependent replication restart. *Molecular Cell*, **2021**, 81, 2989-3006.e9 | 17.6 | 8 |
| 34 | The Immune Protein Calprotectin Impacts Clostridioides difficile Metabolism through Zinc Limitation. *MBio*, **2019**, 10, | 7.8 | 7 |
| 33 | Characterization and development of SAPP as a specific peptidic inhibitor that targets Porphyromonas gingivalis. *Molecular Oral Microbiology*, **2018**, 33, 430-439 | 4.6 | 7 |
| 32 | Molecular Insight into TdfH-Mediated Zinc Piracy from Human Calprotectin by Neisseria gonorrhoeae. *MBio*, **2020**, 11, | 7.8 | 6 |
| 31 | Stress-induced acidification may contribute to formation of unusual structures in C9orf72-repeats. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 1482-1491 | 4 | 6 |
| 30 | Nascent structure in the kinase anchoring domain of microtubule-associated protein 2. *Biochemical and Biophysical Research Communications*, **2003**, 301, 136-42 | 3.4 | 6 |
| 29 | RADX controls RAD51 filament dynamics to regulate replication fork stability. *Molecular Cell*, **2021**, 81, 1074-1083.e5 | 17.6 | 6 |
| 28 | Substrate Binding Regulates Redox Signaling in Human DNA Primase. *Journal of the American Chemical Society*, **2018**, 140, 17153-17162 | 16.4 | 6 |
| 27 | A Polymerase With Potential: The Fe-S Cluster in Human DNA Primase. *Methods in Enzymology*, **2017**, 595, 361-390 | 1.7 | 5 |

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| 26 | Analysis of Functional Dynamics of Modular Multidomain Proteins by SAXS and NMR. *Methods in Enzymology*, **2017**, 592, 49-76 | 1.7 | 5 |
| 25 | 1H, 15N and 13C assignments of the regulatory domains of calcium-dependent protein kinase (CDPK). *Journal of Biomolecular NMR*, **2002**, 23, 249-50 | 3 | 5 |
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