# Gregory D Bowman

List of Publications by Year
in descending order



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|---|---|---|---|
| 37 papers | 1,998 citations | 304602 22 h-index | 330025 37 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 2463 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reb1, Cbf1, and Pho4 Bias Histone Sliding and Deposition Away from Their Binding Sites. Molecular and Cellular Biology, 2022, 42, MCB0047221. | 1.1 | 6 |
| 2 | Nucleosome recognition and DNA distortion by the Chd1 remodeler in a nucleotide-free state. Nature Structural and Molecular Biology, 2022, 29, 121-129. | 3.6 | 21 |
| 3 | Autoinhibitory elements of the Chd1 remodeler block initiation of twist defects by destabilizing the ATPase motor on the nucleosome. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 14 |
| 4 | Biophysics of Chromatin Remodeling. Annual Review of Biophysics, 2021, 50, 73-93. | 4.5 | 31 |
| 5 | Reconstitution and Purification of Nucleosomes with Recombinant Histones and Purified DNA. Current Protocols in Molecular Biology, 2020, 133, e130. | 2.9 | 15 |
| 6 | The Chd1 chromatin remodeler forms long-lived complexes with nucleosomes in the presence of ADPÂ·BeF3â˜ and transition state analogs. Journal of Biological Chemistry, 2019, 294, 18181-18191. | 1.6 | 5 |
| 7 | Remodeling the genome with DNA twists. Science, 2019, 366, 35-36. | 6.0 | 18 |
| 8 | Uncovering a New Step in Sliding Nucleosomes. Trends in Biochemical Sciences, 2019, 44, 643-645. | 3.7 | 4 |
| 9 | Direct observation of coordinated DNA movements on the nucleosome during chromatin remodelling. Nature Communications, 2019, 10, 1720. | 5.8 | 71 |
| 10 | Asymmetry between the two acidic patches dictates the direction of nucleosome sliding by the ISWI chromatin remodeler. ELife, 2019, 8, . | 2.8 | 31 |
| 11 | Missense variants in the chromatin remodeler CHD1 are associated with neurodevelopmental disability. Journal of Medical Genetics, 2018, 55, 561-566. | 1.5 | 49 |
| 12 | A twist defect mechanism for ATP-dependent translocation of nucleosomal DNA. ELife, 2018, 7, . | 2.8 | 45 |
| 13 | The ATPase motor of the Chd1 chromatin remodeler stimulates DNA unwrapping from the nucleosome. Nucleic Acids Research, 2018, 46, 4978-4990. | 6.5 | 21 |
| 14 | Interdomain Communication of the Chd1 Chromatin Remodeler across the DNA Gyres of the Nucleosome. Molecular Cell, 2017, 65, 447-459.e6. | 4.5 | 67 |
| 15 | The Sequence of Nucleosomal DNA Modulates Sliding by the Chd1 Chromatin Remodeler. Journal of Molecular Biology, 2017, 429, 808-822. | 2.0 | 40 |
| 16 | The Chd1 Chromatin Remodeler Shifts Nucleosomal DNA Bidirectionally as a Monomer. Molecular Cell, 2017, 68, 76-88.e6. | 4.5 | 50 |
| 17 | A glimpse into chromatin remodeling. Nature Structural and Molecular Biology, 2017, 24, 498-500. | 3.6 | 9 |
| 18 | Sequenceâ€specific targeting of chromatin remodelers organizes precisely positioned nucleosomes throughout the genome. BioEssays, 2017, 39, 1-8. | 1.2 | 133 |

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|---|---|---|---|
| 19 | The Chd1 chromatin remodeler can sense both entry and exit sides of the nucleosome. Nucleic Acids Research, 2016, 44, 7580-7591. | 6.5 | 23 |
| 20 | Succinyl-5-aminoimidazole-4-carboxamide-1-ribose 5â€²-Phosphate (SAICAR) Activates Pyruvate Kinase Isoform M2 (PKM2) in Its Dimeric Form. Biochemistry, 2016, 55, 4731-4736. | 1.2 | 24 |
| 21 | Sequence-targeted nucleosome sliding in vivo by a hybrid Chd1 chromatin remodeler. Genome Research, 2016, 26, 693-704. | 2.4 | 30 |
| 22 | Modulation of p300/CBP Acetylation of Nucleosomes by Bromodomain Ligand I-CBP112. Biochemistry, 2016, 55, 3727-3734. | 1.2 | 41 |
| 23 | The Chd1 chromatin remodeler shifts hexasomes unidirectionally. ELife, 2016, 5, . | 2.8 | 69 |
| 24 | Formation of a Trimeric Xpo1-Ran[GTP]-Ded1 Exportin Complex Modulates ATPase and Helicase Activities of Ded1. PLoS ONE, 2015, 10, e0131690. | 1.1 | 10 |
| 25 | A Naturally Occurring Repeat Protein with High Internal Sequence Identity Defines a New Class of TPR-like Proteins. Structure, 2015, 23, 2055-2065. | 1.6 | 28 |
| 26 | Post-Translational Modifications of Histones That Influence Nucleosome Dynamics. Chemical Reviews, 2015, 115, 2274-2295. | 23.0 | 384 |
| 27 | Dynamic regulation of transcription factors by nucleosome remodeling. ELife, 2015, 4, . | 2.8 | 90 |
| 28 | Decoupling nucleosome recognition from DNA binding dramatically alters the properties of the Chd1 chromatin remodeler. Nucleic Acids Research, 2013, 41, 1637-1648. | 6.5 | 36 |
| 29 | Nucleosome sliding by Chd1 does not require rigid coupling between DNAâ€binding and ATPase domains. EMBO Reports, 2013, 14, 1098-1103. | 2.0 | 20 |
| 30 | ATP-dependent chromatin assembly is functionally distinct from chromatin remodeling. ELife, 2013, 2, e00863. | 2.8 | 44 |
| 31 | The basic linker of macroH2A stabilizes DNA at the entry/exit site of the nucleosome. Nucleic Acids Research, 2012, 40, 8285-8295. | 6.5 | 34 |
| 32 | Extranucleosomal DNA Binding Directs Nucleosome Sliding by Chd1. Molecular and Cellular Biology, 2011, 31, 4746-4759. | 1.1 | 114 |
| 33 | Structural insights into regulation and action of SWI2/SNF2 ATPases. Current Opinion in Structural Biology, 2011, 21, 719-727. | 2.6 | 51 |
| 34 | Identification of Residues in Chromodomain Helicase DNA-Binding Protein 1 (Chd1) Required for Coupling ATP Hydrolysis to Nucleosome Sliding. Journal of Biological Chemistry, 2011, 286, 43984-43993. | 1.6 | 39 |
| 35 | Crystal Structure of the Chromodomain Helicase DNA-binding Protein 1 (Chd1) DNA-binding Domain in Complex with DNA. Journal of Biological Chemistry, 2011, 286, 42099-42104. | 1.6 | 37 |
| 36 | Mechanisms of ATP-dependent nucleosome sliding. Current Opinion in Structural Biology, 2010, 20, 73-81. | 2.6 | 103 |

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|---|---|---|---|
| 37 | The Chromodomains of the Chd1 Chromatin Remodeler Regulate DNA Access to the ATPase Motor. Molecular Cell, 2010, 39, 711-723. | 4.5 | 190 |