# Gregory D Bowman

List of Publications by Year
in descending order



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|---|---|---|---|
| 37 papers | 1,998 citations | 304743 22 h-index | 330143 37 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 2463 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Post-Translational Modifications of Histones That Influence Nucleosome Dynamics. Chemical Reviews, 2015, 115, 2274-2295. | 47.7 | 384 |
| 2 | The Chromodomains of the Chd1 Chromatin Remodeler Regulate DNA Access to the ATPase Motor. Molecular Cell, 2010, 39, 711-723. | 9.7 | 190 |
| 3 | Sequenceâ€specific targeting of chromatin remodelers organizes precisely positioned nucleosomes throughout the genome. BioEssays, 2017, 39, 1-8. | 2.5 | 133 |
| 4 | Extranucleosomal DNA Binding Directs Nucleosome Sliding by Chd1. Molecular and Cellular Biology, 2011, 31, 4746-4759. | 2.3 | 114 |
| 5 | Mechanisms of ATP-dependent nucleosome sliding. Current Opinion in Structural Biology, 2010, 20, 73-81. | 5.7 | 103 |
| 6 | Dynamic regulation of transcription factors by nucleosome remodeling. ELife, 2015, 4, . | 6.0 | 90 |
| 7 | Direct observation of coordinated DNA movements on the nucleosome during chromatin remodelling. Nature Communications, 2019, 10, 1720. | 12.8 | 71 |
| 8 | The Chd1 chromatin remodeler shifts hexasomes unidirectionally. ELife, 2016, 5, . | 6.0 | 69 |
| 9 | Interdomain Communication of the Chd1 Chromatin Remodeler across the DNA Gyres of the Nucleosome. Molecular Cell, 2017, 65, 447-459.e6. | 9.7 | 67 |
| 10 | Structural insights into regulation and action of SWI2/SNF2 ATPases. Current Opinion in Structural Biology, 2011, 21, 719-727. | 5.7 | 51 |
| 11 | The Chd1 Chromatin Remodeler Shifts Nucleosomal DNA Bidirectionally as a Monomer. Molecular Cell, 2017, 68, 76-88.e6. | 9.7 | 50 |
| 12 | Missense variants in the chromatin remodeler CHD1 are associated with neurodevelopmental disability. Journal of Medical Genetics, 2018, 55, 561-566. | 3.2 | 49 |
| 13 | A twist defect mechanism for ATP-dependent translocation of nucleosomal DNA. ELife, 2018, 7, . | 6.0 | 45 |
| 14 | ATP-dependent chromatin assembly is functionally distinct from chromatin remodeling. ELife, 2013, 2, e00863. | 6.0 | 44 |
| 15 | Modulation of p300/CBP Acetylation of Nucleosomes by Bromodomain Ligand I-CBP112. Biochemistry, 2016, 55, 3727-3734. | 2.5 | 41 |
| 16 | The Sequence of Nucleosomal DNA Modulates Sliding by the Chd1 Chromatin Remodeler. Journal of Molecular Biology, 2017, 429, 808-822. | 4.2 | 40 |
| 17 | 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. | 3.4 | 39 |
| 18 | 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. | 3.4 | 37 |

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|---|---|---|---|
| 19 | Decoupling nucleosome recognition from DNA binding dramatically alters the properties of the Chd1 chromatin remodeler. Nucleic Acids Research, 2013, 41, 1637-1648. | 14.5 | 36 |
| 20 | The basic linker of macroH2A stabilizes DNA at the entry/exit site of the nucleosome. Nucleic Acids Research, 2012, 40, 8285-8295. | 14.5 | 34 |
| 21 | Biophysics of Chromatin Remodeling. Annual Review of Biophysics, 2021, 50, 73-93. | 10.0 | 31 |
| 22 | Asymmetry between the two acidic patches dictates the direction of nucleosome sliding by the ISWI chromatin remodeler. ELife, 2019, 8, . | 6.0 | 31 |
| 23 | Sequence-targeted nucleosome sliding in vivo by a hybrid Chd1 chromatin remodeler. Genome Research, 2016, 26, 693-704. | 5.5 | 30 |
| 24 | A Naturally Occurring Repeat Protein with High Internal Sequence Identity Defines a New Class of TPR-like Proteins. Structure, 2015, 23, 2055-2065. | 3.3 | 28 |
| 25 | 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. | 2.5 | 24 |
| 26 | The Chd1 chromatin remodeler can sense both entry and exit sides of the nucleosome. Nucleic Acids Research, 2016, 44, 7580-7591. | 14.5 | 23 |
| 27 | The ATPase motor of the Chd1 chromatin remodeler stimulates DNA unwrapping from the nucleosome. Nucleic Acids Research, 2018, 46, 4978-4990. | 14.5 | 21 |
| 28 | Nucleosome recognition and DNA distortion by the Chd1 remodeler in a nucleotide-free state. Nature Structural and Molecular Biology, 2022, 29, 121-129. | 8.2 | 21 |
| 29 | Nucleosome sliding by Chd1 does not require rigid coupling between DNAâ€binding and ATPase domains. EMBO Reports, 2013, 14, 1098-1103. | 4.5 | 20 |
| 30 | Remodeling the genome with DNA twists. Science, 2019, 366, 35-36. | 12.6 | 18 |
| 31 | Reconstitution and Purification of Nucleosomes with Recombinant Histones and Purified DNA. Current Protocols in Molecular Biology, 2020, 133, e130. | 2.9 | 15 |
| 32 | 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, . | 7.1 | 14 |
| 33 | Formation of a Trimeric Xpo1-Ran[GTP]-Ded1 Exportin Complex Modulates ATPase and Helicase Activities of Ded1. PLoS ONE, 2015, 10, e0131690. | 2.5 | 10 |
| 34 | A glimpse into chromatin remodeling. Nature Structural and Molecular Biology, 2017, 24, 498-500. | 8.2 | 9 |
| 35 | Reb1, Cbf1, and Pho4 Bias Histone Sliding and Deposition Away from Their Binding Sites. Molecular and Cellular Biology, 2022, 42, MCB0047221. | 2.3 | 6 |
| 36 | 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. | 3.4 | 5 |

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| 37 | Uncovering a New Step in Sliding Nucleosomes. Trends in Biochemical Sciences, 2019, 44, 643-645. | 7.5 | 4 |