

# Bryan C Dickinson

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

7,173  
citations

117625

34  
h-index

64796

79  
g-index

108  
all docs

108  
docs citations

108  
times ranked

11218  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cannabidiol inhibits SARS-CoV-2 replication through induction of the host ER stress and innate immune responses. <i>Science Advances</i> , 2022, 8, .	10.3	77
2	CASowary: CRISPR-Cas13 guide RNA predictor for transcript depletion. <i>BMC Genomics</i> , 2022, 23, 172.	2.8	9
3	Dysregulated mitochondrial and cytosolic tRNA m1A methylation in Alzheimer's disease. <i>Human Molecular Genetics</i> , 2022, 31, 1673-1680.	2.9	23
4	Cln5 represents a new type of cysteine-based <i>S</i> -depalmitoylase linked to neurodegeneration. <i>Science Advances</i> , 2022, 8, eabj8633.	10.3	12
5	Methods for the directed evolution of biomolecular interactions. <i>Trends in Biochemical Sciences</i> , 2022, 47, 403-416.	7.5	3
6	Cannabidiol inhibits SARS-CoV-2 replication through induction of the host ER stress and innate immune responses.. <i>Science Advances</i> , 2022, , eabi6110.	10.3	11
7	Development of Mild Chemical Catalysis Conditions for m <sup>1</sup> A-to-m <sup>6</sup> A Rearrangement on RNA. <i>ACS Chemical Biology</i> , 2022, , .	3.4	4
8	A High-Throughput Fluorescent Turn-On Assay for Inhibitors of DHHC Family Proteins. <i>ACS Chemical Biology</i> , 2022, 17, 2018-2023.	3.4	1
9	Imaging in Living Cells. <i>Methods in Molecular Biology</i> , 2021, 2275, 127-140.	0.9	0
10	Bisindolylmaleimide IX: A novel anti-SARS-CoV2 agent targeting viral main protease 3CLpro demonstrated by virtual screening pipeline and in-vitro validation assays. <i>Methods</i> , 2021, 195, 57-71.	3.8	29
11	Structure of papain-like protease from SARS-CoV-2 and its complexes with non-covalent inhibitors. <i>Nature Communications</i> , 2021, 12, 743.	12.8	297
12	A stop sign for RAS trafficking. <i>Nature Chemical Biology</i> , 2021, 17, 840-841.	8.0	0
13	Contingency and chance erase necessity in the experimental evolution of ancestral proteins. <i>ELife</i> , 2021, 10, .	6.0	30
14	A System for the Evolution of Protein-Protein Interaction Inducers. <i>ACS Synthetic Biology</i> , 2021, 10, 2096-2110.	3.8	5
15	Development of an Acrylamide-Based Inhibitor of Protein <i>S</i> -Acylation. <i>ACS Chemical Biology</i> , 2021, 16, 1546-1556.	3.4	22
16	Masitinib is a broad coronavirus 3CL inhibitor that blocks replication of SARS-CoV-2. <i>Science</i> , 2021, 373, 931-936.	12.6	173
17	Editorial overview: Engineering, evolving, and designing proteins. <i>Current Opinion in Structural Biology</i> , 2021, 69, iii-v.	5.7	1
18	Phage-Assisted Continuous Evolution and Selection of Enzymes for Chemical Synthesis. <i>ACS Central Science</i> , 2021, 7, 1581-1590.	11.3	13

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19	Antiviral evaluation of hydroxyethylamine analogs: Inhibitors of SARS-CoV-2 main protease (3CLpro), a virtual screening and simulation approach. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 47, 116393.	3.0	15
20	Programmable technologies to manipulate gene expression at the RNA level. <i>Current Opinion in Chemical Biology</i> , 2021, 64, 27-37.	6.1	2
21	Inhibitors of DHHC family proteins. <i>Current Opinion in Chemical Biology</i> , 2021, 65, 118-125.	6.1	29
22	Editorial Overview: Molecular synthetic biology: from understanding life to creating smart therapeutics. <i>Current Opinion in Chemical Biology</i> , 2021, 64, A1-A2.	6.1	0
23	Small Molecule-Inducible RNA-Targeting Systems for Temporal Control of RNA Regulation. <i>ACS Central Science</i> , 2020, 6, 1987-1996.	11.3	27
24	Split T7 RNA polymerase biosensors to study multiprotein interaction dynamics. <i>Methods in Enzymology</i> , 2020, 641, 413-432.	1.0	3
25	Endothelial Palmitoylation Cycling Coordinates Vessel Remodeling in Peripheral Artery Disease. <i>Circulation Research</i> , 2020, 127, 249-265.	4.5	26
26	Expanding the Chemical Scope of RNA Base Editors. <i>Biochemistry</i> , 2019, 58, 3555-3556.	2.5	0
27	Programmable RNA-Guided RNA Effector Proteins Built from Human Parts. <i>Cell</i> , 2019, 178, 122-134.e12.	28.9	110
28	Recent advances in developing and applying biosensors for synthetic biology. <i>Nano Futures</i> , 2019, 3, 042002.	2.2	9
29	Palmitoylation is required for TNF-R1 signaling. <i>Cell Communication and Signaling</i> , 2019, 17, 90.	6.5	30
30	Activity-Based Sensing of S-Depalmitoylases: Chemical Technologies and Biological Discovery. <i>Accounts of Chemical Research</i> , 2019, 52, 3029-3038.	15.6	18
31	Evolution of a reverse transcriptase to map N1-methyladenosine in human messenger RNA. <i>Nature Methods</i> , 2019, 16, 1281-1288.	19.0	113
32	Development of a Split Esterase for Protein-Protein Interaction-Dependent Small-Molecule Activation. <i>ACS Central Science</i> , 2019, 5, 1768-1776.	11.3	22
33	Measuring S-Depalmitoylation Activity In Vitro and In Live Cells with Fluorescent Probes. <i>Methods in Molecular Biology</i> , 2019, 2009, 99-109.	0.9	4
34	Targeted m6A reader proteins to study the epitranscriptome. <i>Methods in Enzymology</i> , 2019, 621, 1-16.	1.0	5
35	Evolution of C-terminal Modification Tolerance in Full-length and Split T7 RNA Polymerase Biosensors. <i>ChemBioChem</i> , 2019, 20, 1547-1553.	2.6	15
36	ABHD10 is an S-depalmitoylase affecting redox homeostasis through peroxiredoxin-5. <i>Nature Chemical Biology</i> , 2019, 15, 1232-1240.	8.0	72

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37	A Phage-Assisted Continuous Selection Approach for Deep Mutational Scanning of Protein-Protein Interactions. <i>ACS Chemical Biology</i> , 2019, 14, 2757-2767.	3.4	23
38	Active and dynamic mitochondrial S-depalmitoylation revealed by targeted fluorescent probes. <i>Nature Communications</i> , 2018, 9, 334.	12.8	73
39	A Fluorescent Probe with Improved Water Solubility Permits the Analysis of Protein S-Depalmitoylation Activity in Live Cells. <i>Biochemistry</i> , 2018, 57, 221-225.	2.5	22
40	Programmable RNA Binding Proteins for Imaging and Therapeutics. <i>Biochemistry</i> , 2018, 57, 363-364.	2.5	7
41	Multidimensional Control of Cas9 by Evolved RNA Polymerase-Based Biosensors. <i>ACS Chemical Biology</i> , 2018, 13, 431-437.	3.4	21
42	Targeted m <sup>6</sup> A Reader Proteins To Study Epitranscriptomic Regulation of Single RNAs. <i>Journal of the American Chemical Society</i> , 2018, 140, 11974-11981.	13.7	92
43	Controlling protein function with HCV protease. <i>Nature Methods</i> , 2018, 15, 489-490.	19.0	1
44	Wnt5a signaling induced phosphorylation increases APT1 activity and promotes melanoma metastatic behavior. <i>ELife</i> , 2018, 7, .	6.0	29
45	Evolution of a split RNA polymerase as a versatile biosensor platform. <i>Nature Chemical Biology</i> , 2017, 13, 432-438.	8.0	110
46	Protective Effect of Inflammasome Activation by Hydrogen Peroxide in a Mouse Model of Septic Shock. <i>Critical Care Medicine</i> , 2017, 45, e184-e194.	0.9	9
47	A fluorescent probe for cysteine depalmitoylation reveals dynamic APT signaling. <i>Nature Chemical Biology</i> , 2017, 13, 150-152.	8.0	66
48	Michael addition-based probes for ratiometric fluorescence imaging of protein S-depalmitoylases in live cells and tissues. <i>Chemical Science</i> , 2017, 8, 7588-7592.	7.4	31
49	RNA Polymerase Tags To Monitor Multidimensional Protein-Protein Interactions Reveal Pharmacological Engagement of Bcl-2 Proteins. <i>Journal of the American Chemical Society</i> , 2017, 139, 11964-11972.	13.7	16
50	Cadmium toxicity investigated at the physiological and biophysical levels under environmentally relevant conditions using the aquatic model plant <i>Ceratophyllum demersum</i> . <i>New Phytologist</i> , 2016, 210, 1244-1258.	7.3	62
51	An animal model of Miller Fisher syndrome: Mitochondrial hydrogen peroxide is produced by the autoimmune attack of nerve terminals and activates Schwann cells. <i>Neurobiology of Disease</i> , 2016, 96, 95-104.	4.4	26
52	MnTE-2-PyP modulates thiol oxidation in a hydrogen peroxide-mediated manner in a human prostate cancer cell. <i>Free Radical Biology and Medicine</i> , 2016, 101, 32-43.	2.9	31
53	Selenoprotein H is an essential regulator of redox homeostasis that cooperates with p53 in development and tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5562-71.	7.1	49
54	A Panel of Protease-Responsive RNA Polymerases Respond to Biochemical Signals by Production of Defined RNA Outputs in Live Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 15996-15999.	13.7	22

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55	An oxidative fluctuation hypothesis of aging generated by imaging H <sub>2</sub> O <sub>2</sub> levels in live <i>Caenorhabditis elegans</i> with altered lifespans. <i>Biochemical and Biophysical Research Communications</i> , 2015, 458, 896-900.	2.1	22
56	Mitochondrial alarmins released by degenerating motor axon terminals activate perisynaptic Schwann cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E497-505.	7.1	59
57	Plugging the leak. <i>Nature Chemical Biology</i> , 2015, 11, 831-832.	8.0	1
58	Imaging Mitochondrial Hydrogen Peroxide in Living Cells. <i>Methods in Molecular Biology</i> , 2015, 1264, 231-243.	0.9	5
59	Improvement of Human Keratinocyte Migration by a Redox Active Bioelectric Dressing. <i>PLoS ONE</i> , 2014, 9, e89239.	2.5	72
60	Recent advances in hydrogen peroxide imaging for biological applications. <i>Cell and Bioscience</i> , 2014, 4, 64.	4.8	87
61	A system for the continuous directed evolution of proteases rapidly reveals drug-resistance mutations. <i>Nature Communications</i> , 2014, 5, 5352.	12.8	82
62	Dephosphorylation of Tyrosine 393 in Argonaute 2 by Protein Tyrosine Phosphatase 1B Regulates Gene Silencing in Oncogenic RAS-Induced Senescence. <i>Molecular Cell</i> , 2014, 55, 782-790.	9.7	65
63	Mitochondrial DNA damage: Molecular marker of vulnerable nigral neurons in Parkinson's disease. <i>Neurobiology of Disease</i> , 2014, 70, 214-223.	4.4	155
64	Endogenous hydrogen peroxide production in the epithelium of the developing embryonic lens. <i>Molecular Vision</i> , 2014, 20, 458-67.	1.1	14
65	Preparation and use of MitoPY1 for imaging hydrogen peroxide in mitochondria of live cells. <i>Nature Protocols</i> , 2013, 8, 1249-1259.	12.0	144
66	Experimental interrogation of the path dependence and stochasticity of protein evolution using phage-assisted continuous evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9007-9012.	7.1	92
67	Receptor Protein-tyrosine Phosphatase $\hat{\pm}$ Regulates Focal Adhesion Kinase Phosphorylation and ErbB2 Oncoprotein-mediated Mammary Epithelial Cell Motility. <i>Journal of Biological Chemistry</i> , 2013, 288, 36926-36935.	3.4	17
68	A Population-Based Experimental Model for Protein Evolution: Effects of Mutation Rate and Selection Stringency on Evolutionary Outcomes. <i>Biochemistry</i> , 2013, 52, 1490-1499.	2.5	37
69	Two-photon fluorescence imaging of intracellular hydrogen peroxide with chemoselective fluorescent probes. <i>Journal of Biomedical Optics</i> , 2013, 18, 106002.	2.6	18
70	Glucose metabolism impacts the spatiotemporal onset and magnitude of HSC induction in vivo. <i>Blood</i> , 2013, 121, 2483-2493.	1.4	96
71	Imaging Localised Hydrogen Peroxide Production in Living Systems. <i>Current Chemical Biology</i> , 2012, 6, 113-122.	0.5	2
72	Reactive Oxygen Species-Induced Actin Glutathionylation Controls Actin Dynamics in Neutrophils. <i>Immunity</i> , 2012, 37, 1037-1049.	14.3	174

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73	H2O2 Production Downstream of FLT3 Is Mediated by p22phox in the Endoplasmic Reticulum and Is Required for STAT5 Signalling. <i>PLoS ONE</i> , 2012, 7, e34050.	2.5	54
74	Nox2 redox signaling maintains essential cell populations in the brain. <i>Nature Chemical Biology</i> , 2011, 7, 106-112.	8.0	248
75	A Nuclear-Localized Fluorescent Hydrogen Peroxide Probe for Monitoring Sirtuin-Mediated Oxidative Stress Responses In Vivo. <i>Chemistry and Biology</i> , 2011, 18, 943-948.	6.0	125
76	Chemistry and biology of reactive oxygen species in signaling or stress responses. <i>Nature Chemical Biology</i> , 2011, 7, 504-511.	8.0	1,461
77	S100B and APP Promote a Gliocentric Shift and Impaired Neurogenesis in Down Syndrome Neural Progenitors. <i>PLoS ONE</i> , 2011, 6, e22126.	2.5	73
78	Mitochondrial-targeted fluorescent probes for reactive oxygen species. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 50-56.	6.1	288
79	A Palette of Fluorescent Probes with Varying Emission Colors for Imaging Hydrogen Peroxide Signaling in Living Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 5906-5915.	13.7	477
80	Aquaporin-3 mediates hydrogen peroxide uptake to regulate downstream intracellular signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15681-15686.	7.1	595
81	Avid interactions underlie the Lys63-linked polyubiquitin binding specificities observed for UBA domains. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 883-889.	8.2	78
82	A red-emitting naphthofluorescein-based fluorescent probe for selective detection of hydrogen peroxide in living cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5948-5950.	2.2	83
83	A Targetable Fluorescent Probe for Imaging Hydrogen Peroxide in the Mitochondria of Living Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 9638-9639.	13.7	582
84	Effects of cyclization on conformational dynamics and binding properties of Lys48-linked di-ubiquitin. <i>Protein Science</i> , 2007, 16, 369-378.	7.6	18