## Trisha N Davis

List of Publications by Year in descending order

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71102 64796 7,217 110 41 79 citations h-index g-index papers 124 124 124 6990 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Dissecting DNA damage response pathways by analysing protein localization and abundance changesAduring DNA replication stress. Nature Cell Biology, 2012, 14, 966-976.	10.3	431
2	Isolation of the yeast calmodulin gene: Calmodulin is an essential protein. Cell, 1986, 47, 423-431.	28.9	428
3	Design of a hyperstable 60-subunit protein icosahedron. Nature, 2016, 535, 136-139.	27.8	373
4	Two yeast forkhead genes regulate the cell cycle and pseudohyphal growth. Nature, 2000, 406, 90-94.	27.8	353
5	Can calmodulin function without binding calcium?. Cell, 1991, 65, 949-959.	28.9	309
6	A protein interaction map for cell polarity development. Journal of Cell Biology, 2001, 154, 549-576.	5.2	294
7	The Ndc80 Kinetochore Complex Forms Load-Bearing Attachments to Dynamic Microtubule Tips via Biased Diffusion. Cell, 2009, 136, 865-875.	28.9	262
8	Assigning Function to Yeast Proteins by Integration of Technologies. Molecular Cell, 2003, 12, 1353-1365.	9.7	248
9	Microtubule nucleating $\hat{I}^3$ -TuSC assembles structures with 13-fold microtubule-like symmetry. Nature, 2010, 466, 879-882.	27.8	231
10	Cooperation of the Dam1 and Ndc80 kinetochore complexes enhances microtubule coupling and is regulated by aurora B. Journal of Cell Biology, 2010, 189, 713-723.	5.2	193
11	The Dam1 kinetochore complex harnesses microtubule dynamics to produce force and movement. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9873-9878.	7.1	177
12	Kojak: Efficient Analysis of Chemically Cross-Linked Protein Complexes. Journal of Proteome Research, 2015, 14, 2190-2198.	3.7	155
13	Tension applied through the Dam1 complex promotes microtubule elongation providing a direct mechanism for length control in mitosis. Nature Cell Biology, 2007, 9, 832-837.	10.3	145
14	Integrative phenomics reveals insight into the structure of phenotypic diversity in budding yeast. Genome Research, 2013, 23, 1496-1504.	5 <b>.</b> 5	138
15	Phosphoregulation and depolymerization-driven movement of the Dam1 complex do not require ring formation. Nature Cell Biology, 2008, 10, 407-414.	10.3	136
16	The Organization of the Core Proteins of the Yeast Spindle Pole Body. Molecular Biology of the Cell, 2005, 16, 3341-3352.	2.1	121
17	Ring closure activates yeast $\hat{l}^3$ TuRC for species-specific microtubule nucleation. Nature Structural and Molecular Biology, 2015, 22, 132-137.	8.2	115
18	Ctf3p, the Mis6 budding yeast homolog, interacts with Mcm22p and Mcm16p at the yeast outer kinetochore. Genes and Development, 2002, 16, 101-113.	5.9	111

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19	Mlc1p Is a Light Chain for the Unconventional Myosin Myo2p in Saccharomyces cerevisiae. Journal of Cell Biology, 1998, 142, 711-722.	5.2	104
20	The Ndc80 kinetochore complex directly modulates microtubule dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16113-16118.	7.1	103
21	The Structure of the $\hat{I}^3$ -Tubulin Small Complex: Implications of Its Architecture and Flexibility for Microtubule Nucleation. Molecular Biology of the Cell, 2008, 19, 207-215.	2.1	96
22	Mps1 Phosphorylation of Dam1 Couples Kinetochores to Microtubule Plus Ends at Metaphase. Current Biology, 2006, 16, 1489-1501.	3.9	93
23	In vivo analysis of cohesin architecture using FRET in the budding yeast Saccharomyces cerevisiae. EMBO Journal, 2007, 26, 3783-3793.	7.8	92
24	A Genetic Analysis of Interactions with Spc110p Reveals Distinct Functions of Spc97p and Spc98p, Components of the Yeast $\hat{I}^3$ -Tubulin Complex. Molecular Biology of the Cell, 1998, 9, 2201-2216.	2.1	81
25	Reconstitution and Characterization of Budding Yeast $\hat{I}^3$ -Tubulin Complex. Molecular Biology of the Cell, 2002, 13, 1144-1157.	2.1	80
26	Kip3, the yeast kinesin-8, is required for clustering of kinetochores at metaphase. Cell Cycle, 2010, 9, 2581-2588.	2.6	76
27	Fluorescence resonance energy transfer using color variants of green fluorescent protein. Methods in Enzymology, 2002, 351, 34-49.	1.0	67
28	The centrosomal proteins pericentrin and kendrin are encoded by alternatively spliced products of one gene. Genomics, 2003, 82, 401-405.	2.9	65
29	Computationally designed high specificity inhibitors delineate the roles of BCL2 family proteins in cancer. ELife, 2016, 5, .	6.0	65
30	Human Ska complex and Ndc80 complex interact to form a load-bearing assembly that strengthens kinetochore–microtubule attachments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2740-2745.	7.1	65
31	A Bifunctional Role for the UHRF1ÂUBL Domain in the Control of Hemi-methylated DNA-Dependent Histone Ubiquitylation. Molecular Cell, 2018, 72, 753-765.e6.	9.7	58
32	Chl4p and Iml3p Are Two New Members of the Budding Yeast Outer Kinetochore. Molecular Biology of the Cell, 2003, 14, 460-476.	2.1	57
33	In-Line Separation by Capillary Electrophoresis Prior to Analysis by Top-Down Mass Spectrometry Enables Sensitive Characterization of Protein Complexes. Journal of Proteome Research, 2014, 13, 6078-6086.	3.7	57
34	Protein localization in proteomics. Current Opinion in Chemical Biology, 2004, 8, 49-53.	6.1	54
35	Similarities and differences between yeast and vertebrate calmodulin: An examination of the calcium-binding and structural properties of calmodulin from the yeast Saccharomyces cerevisiae. Biochemistry, 1993, 32, 3261-3270.	2.5	53
36	A Mutational Analysis Identifies Three Functional Regions of the Spindle Pole Component Spc110p in <i>Saccharomyces cerevisiae</i> Molecular Biology of the Cell, 1997, 8, 2575-2590.	2.1	52

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37	The Ndc80 complex bridges two Dam1 complex rings. ELife, 2017, 6, .	6.0	52
38	Kinetochores require oligomerization of Dam1 complex to maintain microtubule attachments against tension and promote biorientation. Nature Communications, 2014, 5, 4951.	12.8	51
39	The molecular architecture of the Dam1 kinetochore complex is defined by cross-linking based structural modelling. Nature Communications, 2015, 6, 8673.	12.8	51
40	ProXL (Protein Cross-Linking Database): A Platform for Analysis, Visualization, and Sharing of Protein Cross-Linking Mass Spectrometry Data. Journal of Proteome Research, 2016, 15, 2863-2870.	3.7	51
41	Superfamily Assignments for the Yeast Proteome through Integration of Structure Prediction with the Gene Ontology. PLoS Biology, 2007, 5, e76.	5.6	48
42	Direct physical study of kinetochore–microtubule interactions by reconstitution and interrogation with an optical force clamp. Methods, 2010, 51, 242-250.	3.8	47
43	Kinetochores' gripping feat: conformational wave or biased diffusion?. Trends in Cell Biology, 2011, 21, 38-46.	7.9	45
44	The molecular architecture of the yeast spindle pole body core determined by Bayesian integrative modeling. Molecular Biology of the Cell, 2017, 28, 3298-3314.	2.1	44
45	TheSaccharomyces cerevisiaeSpindle Pole Body Is a Dynamic Structure. Molecular Biology of the Cell, 2003, 14, 3494-3505.	2.1	43
46	Complete nucleotide sequence of the gene encoding the regulatory subunit of $3\hat{a} \in ^2$ , $5\hat{a} \in ^2$ -cyclic AMP-dependent protein kinase from the yeastSaccharomyces cerevisiae. Nucleic Acids Research, 1987, 15, 368-369.	14.5	42
47	Ca2+ Binding to Calmodulin and Its Role in Schizosaccharomyces pombe as Revealed by Mutagenesis and NMR Spectroscopy. Journal of Biological Chemistry, 1995, 270, 20643-20652.	3.4	40
48	The Proteome Folding Project: Proteome-scale prediction of structure and function. Genome Research, 2011, 21, 1981-1994.	5.5	40
49	Regulation of outer kinetochore Ndc80 complex-based microtubule attachments by the central kinetochore Mis12/MIND complex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5583-9.	7.1	40
50	Structural analysis of wildâ€type and mutant yeast calmodulins by limited proteolysis and electrospray ionization mass spectrometry. Protein Science, 1992, 1, 504-516.	7.6	39
51	Phosphorylation of the Chromosomal Passenger Protein Bir1 Is Required for Localization of Ndc10 to the Spindle during Anaphase and Full Spindle Elongation. Molecular Biology of the Cell, 2006, 17, 1065-1074.	2.1	39
52	Bir1 Is Required for the Tension Checkpoint. Molecular Biology of the Cell, 2009, 20, 915-923.	2.1	37
53	Native Capillary Isoelectric Focusing for the Separation of Protein Complex Isoforms and Subcomplexes. Analytical Chemistry, 2010, 82, 6643-6651.	6.5	35
54	The Yeast Resource Center Public Image Repository: A large database of fluorescence microscopy images. BMC Bioinformatics, 2010, $11$ , $263$ .	2.6	34

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55	Isotope Signatures Allow Identification of Chemically Cross-Linked Peptides by Mass Spectrometry: A Novel Method to Determine Interresidue Distances in Protein Structures through Cross-Linking. Journal of Proteome Research, 2010, 9, 3583-3589.	3.7	32
56	Localization of proteins that are coordinately expressed with Cln2 during the cell cycle. Yeast, 2004, 21, 793-800.	1.7	30
57	Identification of Wiskott-Aldrich syndrome protein (WASP) binding sites on the branched actin filament nucleator Arp2/3 complex. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1409-E1418.	7.1	30
58	Determining Protein Complex Structures Based on a Bayesian Model of in Vivo Förster Resonance Energy Transfer (FRET) Data. Molecular and Cellular Proteomics, 2014, 13, 2812-2823.	3.8	29
59	Higher-order oligomerization of Spc110p drives $\hat{I}^3$ -tubulin ring complex assembly. Molecular Biology of the Cell, 2016, 27, 2245-2258.	2.1	29
60	Yeast Mps1p Phosphorylates the Spindle Pole Component Spc110p in the N-terminal Domain. Journal of Biological Chemistry, 2001, 276, 17958-17967.	3.4	28
61	The fork head transcription factor Hcm1p participates in the regulation of SPC110, which encodes the calmodulin-binding protein in the yeast spindle pole body. Biochimica Et Biophysica Acta - Molecular Cell Research, 1998, 1448, 236-244.	4.1	26
62	Kinetochore-associated Stu2 promotes chromosome biorientation in vivo. PLoS Genetics, 2019, 15, e1008423.	3 <b>.</b> 5	26
63	The Yeast Resource Center Public Data Repository. Nucleic Acids Research, 2004, 33, D378-D382.	14.5	25
64	Localization and orientation of the $\hat{I}^3$ -Tubulin Small Complex components using protein tags as labels for single particle EM. Journal of Structural Biology, 2009, 168, 571-574.	2.8	25
65	The Essential Ubc4/Ubc5 Function in Yeast Is HECT E3-dependent, and RING E3-dependent Pathways Require Only Monoubiquitin Transfer by Ubc4. Journal of Biological Chemistry, 2011, 286, 15165-15170.	3.4	25
66	Analysis of a Spindle Pole Body Mutant Reveals a Defect in Biorientation and Illuminates Spindle Forces. Molecular Biology of the Cell, 2005, 16, 141-152.	2.1	24
67	Rings, bracelets, sleeves, and chevrons: new structures of kinetochore proteins. Trends in Cell Biology, 2007, 17, 377-382.	7.9	23
68	Laterally attached kinetochores recruit the checkpoint protein Bub1, but satisfy the spindle checkpoint. Cell Cycle, 2010, 9, 3619-3628.	2.6	23
69	Structure of $\hat{I}^3$ -tubulin small complex based on a cryo-EM map, chemical cross-links, and a remotely related structure. Journal of Structural Biology, 2016, 194, 303-310.	2.8	23
70	XMAP215 and $\hat{I}^3$ -tubulin additively promote microtubule nucleation in purified solutions. Molecular Biology of the Cell, 2020, 31, 2187-2194.	2.1	23
71	CM1-driven assembly and activation of yeast $\hat{l}^3$ -tubulin small complex underlies microtubule nucleation. ELife, 2021, 10, .	6.0	23
72	Tight bending of the Ndc80 complex provides intrinsic regulation of its binding to microtubules. ELife, 2019, 8, .	6.0	23

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73	A high-efficiency method to replace essential genes with mutant alleles in yeast. Yeast, 2005, 22, 769-774.	1.7	22
74	Single-Molecule Total Internal Reflection Fluorescence Microscopy. Cold Spring Harbor Protocols, 2016, 2016, pdb.top077800.	0.3	22
75	Coupling Unbiased Mutagenesis to High-throughput DNA Sequencing Uncovers Functional Domains in the Ndc80 Kinetochore Protein of <i>Saccharomyces cerevisiae</i> . Genetics, 2013, 195, 159-170.	2.9	21
76	[21] Isolation of the yeast calmodulin gene using synthetic oligonucleotide probes. Methods in Enzymology, 1987, 139, 248-262.	1.0	19
77	Vesicle Docking to the Spindle Pole Body Is Necessary to Recruit the Exocyst During Membrane Formation in <i>Saccharomyces cerevisiae &lt; /i&gt;. Molecular Biology of the Cell, 2010, 21, 3693-3707.</i>	2.1	19
78	Reconstitution and Functional Analysis of Kinetochore Subcomplexes. Methods in Cell Biology, 2010, 95, 641-656.	1.1	19
79	Seeing is believing: our evolving view of kinetochore structure, composition, and assembly. Current Opinion in Cell Biology, 2019, 60, 44-52.	5.4	19
80	Kinetochore Biorientation in <i>Saccharomyces cerevisiae</i> Requires a Tightly Folded Conformation of the Ndc80 Complex. Genetics, 2014, 198, 1483-1493.	2.9	17
81	Cdk1 Phosphorylation of the Dam1 Complex Strengthens Kinetochore-Microtubule Attachments. Current Biology, 2020, 30, 4491-4499.e5.	3.9	17
82	An intein with genetically selectable markers provides a new approach to internally label proteins with GFP. BMC Biotechnology, 2011, 11, 71.	3.3	14
83	Reconstitution reveals two paths of force transmission through the kinetochore. ELife, 2020, 9, .	6.0	14
84	The spindle pole body of Saccharomyces cerevisiae: Architecture and assembly of the core components. Current Topics in Developmental Biology, 1999, 49, 105-132.	2.2	13
85	Novel phosphorylation states of the yeast spindle pole body. Biology Open, 2018, 7, .	1.2	12
86	Identification of Saccharomyces cerevisiae Spindle Pole Body Remodeling Factors. PLoS ONE, 2010, 5, e15426.	2.5	12
87	Direct measurement of the strength of microtubule attachment to yeast centrosomes. Molecular Biology of the Cell, 2017, 28, 1853-1861.	2.1	11
88	Three interacting regions of the Ndc80 and Dam1 complexes support microtubule tip-coupling under load. Journal of Cell Biology, 2022, 221, .	5.2	11
89	Coverslip Cleaning and Functionalization for Total Internal Reflection Fluorescence Microscopy. Cold Spring Harbor Protocols, 2016, 2016, pdb.prot085548.	0.3	10
90	Kinesin-14 motors participate in a force balance at microtubule plus-ends to regulate dynamic instability. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	10

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91	SnipViz: a compact and lightweight web site widget for display and dissemination of multiple versions of gene and protein sequences. BMC Research Notes, 2014, 7, 468.	1.4	7
92	Preparation of Reactions for Imaging with Total Internal Reflection Fluorescence Microscopy. Cold Spring Harbor Protocols, 2016, 2016, pdb.prot085563.	0.3	7
93	Discovery and Visualization of Uncharacterized Drug–Protein Adducts Using Mass Spectrometry. Analytical Chemistry, 2022, 94, 3501-3509.	6.5	7
94	Mitosis puts sisters in a strained relationship: Force generation at the kinetochore. Experimental Cell Research, 2012, 318, 1361-1366.	2.6	6
95	Cullin-independent recognition of HHARI substrates by a dynamic RBR catalytic domain. Structure, 2022, , .	3.3	6
96	Visualization and Dissemination of Multidimensional Proteomics Data Comparing Protein Abundance During <i>Caenorhabditis elegans</i> Development. Journal of the American Society for Mass Spectrometry, 2015, 26, 1827-1836.	2.8	5
97	Microtubule-associated proteins and motors required for ectopic microtubule array formation in $\langle i \rangle$ Saccharomyces cerevisiae $\langle i \rangle$ . Genetics, 2021, 218, .	2.9	5
98	Microtubule pivoting enables mitotic spindle assembly in <i>S. cerevisiae</i> . Journal of Cell Biology, 2021, 220, .	5.2	5
99	An assay to measure the affinity of proteins for microtubules by quantitative fluorescent microscopy. Analytical Biochemistry, 2011, 410, 313-315.	2.4	4
100	Mason: a JavaScript web site widget for visualizing and comparing annotated features in nucleotide or protein sequences. BMC Research Notes, 2015, 8, 70.	1.4	4
101	Purification of Fluorescently Labeled Saccharomyces cerevisiae Spindle Pole Bodies. Methods in Molecular Biology, 2016, 1413, 189-195.	0.9	4
102	Proxl (Protein Cross-Linking Database): A Public Server, QC Tools, and Other Major Updates. Journal of Proteome Research, 2019, 18, 759-764.	3.7	4
103	Insights into the Kinetochore. Structure, 2008, 16, 834-836.	3.3	2
104	[10] Localization of calmodulin in budding yeast and fission yeast using green fluorescent protein. Methods in Enzymology, 1999, 302, 87-102.	1.0	1
105	Protein Localization by Cell Imaging. , 2006, , 135-155.		1
106	12 Measuring the Proximity of Proteins in Living Cells by Fluorescence Resonance Energy Transfer between CFP and YFP. Methods in Microbiology, 2007, , 269-280.	0.8	1
107	VTT-006, an anti-mitotic compound, binds to the Ndc80 complex and suppresses cancer cell growth in vitro. Oncoscience, 2021, 8, 134-153.	2.2	1
108	Genetic analysis of yeast spindle pole bodies. Methods in Cell Biology, 2001, 67, 95-111.	1.1	0

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109	Differential inactivation mechanism and covalent adduct formation of ALDH1A1 and ALDH1A2 by WIN18,446. FASEB Journal, 2018, 32, 833.10.	0.5	O
110	Role of the Spc105 Complex in Organization and Microtubuleâ€Binding Activity of the Budding Yeast Kinetochore. FASEB Journal, 2018, 32, 533.105.	0.5	О