

# Iain M Cheeseman

## List of Publications by Year in descending order

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93  
papers

12,657  
citations

30070

54  
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43889

91  
g-index

111  
all docs

111  
docs citations

111  
times ranked

8718  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Conserved KMN Network Constitutes the Core Microtubule-Binding Site of the Kinetochore. <i>Cell</i> , 2006, 127, 983-997.	28.9	887
2	Molecular architecture of the kinetochore-microtubule interface. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 33-46.	37.0	798
3	Phospho-Regulation of Kinetochore-Microtubule Attachments by the Aurora Kinase Ipl1p. <i>Cell</i> , 2002, 111, 163-172.	28.9	575
4	The molecular basis for centromere identity and function. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 16-29.	37.0	474
5	The CENP-H complex is required for the efficient incorporation of newly synthesized CENP-A into centromeres. <i>Nature Cell Biology</i> , 2006, 8, 446-457.	10.3	437
6	Aurora B Phosphorylates Spatially Distinct Targets to Differentially Regulate the Kinetochore-Microtubule Interface. <i>Molecular Cell</i> , 2010, 38, 383-392.	9.7	430
7	A conserved protein network controls assembly of the outer kinetochore and its ability to sustain tension. <i>Genes and Development</i> , 2004, 18, 2255-2268.	5.9	370
8	CCAN Makes Multiple Contacts with Centromeric DNA to Provide Distinct Pathways to the Outer Kinetochore. <i>Cell</i> , 2008, 135, 1039-1052.	28.9	352
9	Sensing centromere tension: Aurora B and the regulation of kinetochore function. <i>Trends in Cell Biology</i> , 2011, 21, 133-140.	7.9	336
10	Regulated targeting of protein phosphatase 1 to the outer kinetochore by KNL1 opposes Aurora B kinase. <i>Journal of Cell Biology</i> , 2010, 188, 809-820.	5.2	332
11	Induced Ectopic Kinetochore Assembly Bypasses the Requirement for CENP-A Nucleosomes. <i>Cell</i> , 2011, 145, 410-422.	28.9	307
12	Chromosome- and spindle-pole-derived signals generate an intrinsic code for spindle position and orientation. <i>Nature Cell Biology</i> , 2012, 14, 311-317.	10.3	304
13	Functional genomics, proteomics, and regulatory DNA analysis in isogenic settings using zinc finger nuclease-driven transgenesis into a safe harbor locus in the human genome. <i>Genome Research</i> , 2010, 20, 1133-1142.	5.5	280
14	The Kinetochore. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a015826-a015826.	5.5	275
15	The Human Kinetochore Ska1 Complex Facilitates Microtubule Depolymerization-Coupled Motility. <i>Developmental Cell</i> , 2009, 16, 374-385.	7.0	247
16	A cluster of five cell wall-associated receptor kinase genes, Wak1-5, are expressed in specific organs of <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 1999, 39, 1189-1196.	3.9	237
17	Cortical Dynein and Asymmetric Membrane Elongation Coordinately Position the Spindle in Anaphase. <i>Cell</i> , 2013, 154, 391-402.	28.9	233
18	CENP-T-W-S-X Forms a Unique Centromeric Chromatin Structure with a Histone-like Fold. <i>Cell</i> , 2012, 148, 487-501.	28.9	229

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19	A Combined Approach for the Localization and Tandem Affinity Purification of Protein Complexes from Metazoans. <i>Science Signaling</i> , 2005, 2005, pl1-pl1.	3.6	217
20	Architecture of the budding yeast kinetochore reveals a conserved molecular core. <i>Journal of Cell Biology</i> , 2003, 163, 215-222.	5.2	196
21	The Kinetochore-Bound Ska1 Complex Tracks Depolymerizing Microtubules and Binds to Curved Protofilaments. <i>Developmental Cell</i> , 2012, 23, 968-980.	7.0	194
22	Fibrils Connect Microtubule Tips with Kinetochores: A Mechanism to Couple Tubulin Dynamics to Chromosome Motion. <i>Cell</i> , 2008, 135, 322-333.	28.9	186
23	CENP-T provides a structural platform for outer kinetochore assembly. <i>EMBO Journal</i> , 2013, 32, 424-436.	7.8	181
24	KNL1 and the CENP-H/I/K Complex Coordinately Direct Kinetochore Assembly in Vertebrates. <i>Molecular Biology of the Cell</i> , 2008, 19, 587-594.	2.1	176
25	Large-Scale Analysis of CRISPR/Cas9 Cell-Cycle Knockouts Reveals the Diversity of p53-Dependent Responses to Cell-Cycle Defects. <i>Developmental Cell</i> , 2017, 40, 405-420.e2.	7.0	175
26	The human Mis12 complex is required for kinetochore assembly and proper chromosome segregation. <i>Journal of Cell Biology</i> , 2006, 173, 9-17.	5.2	173
27	Implication of a novel multiprotein Dam1p complex in outer kinetochore function. <i>Journal of Cell Biology</i> , 2001, 155, 1137-1146.	5.2	167
28	A new mechanism controlling kinetochore-microtubule interactions revealed by comparison of two dynein-targeting components: SPDL-1 and the Rod/Zw10/Zw10 complex. <i>Genes and Development</i> , 2008, 22, 2385-2399.	5.9	156
29	Functional cooperation of Dam1, Ipl1, and the inner centromere protein (INCENP)-related protein Sli15 during chromosome segregation. <i>Journal of Cell Biology</i> , 2001, 155, 763-774.	5.2	155
30	"Holo"er than thou: Chromosome segregation and kinetochore function in <i>C. elegans</i> . <i>Chromosome Research</i> , 2004, 12, 641-653.	2.2	147
31	The CENP-L-N Complex Forms a Critical Node in an Integrated Meshwork of Interactions at the Centromere-Kinetochore Interface. <i>Molecular Cell</i> , 2015, 60, 886-898.	9.7	146
32	Inferring transient particle transport dynamics in live cells. <i>Nature Methods</i> , 2015, 12, 838-840.	19.0	143
33	Mitotic Spindle Integrity and Kinetochore Function Linked by the Duo1p/Dam1p Complex. <i>Journal of Cell Biology</i> , 2001, 152, 197-212.	5.2	139
34	Polo-like Kinase 1 Licenses CENP-A Deposition at Centromeres. <i>Cell</i> , 2014, 158, 397-411.	28.9	136
35	The CENP-S complex is essential for the stable assembly of outer kinetochore structure. <i>Journal of Cell Biology</i> , 2009, 186, 173-182.	5.2	132
36	Simple centromere, complex kinetochore. <i>Journal of Cell Biology</i> , 2002, 157, 199-203.	5.2	131

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37	Timekeeping in the honey bee colony: integration of circadian rhythms and division of labor. <i>Behavioral Ecology and Sociobiology</i> , 1998, 43, 147-160.	1.4	120
38	Cellular Mechanisms and Regulation of Quiescence. <i>Developmental Cell</i> , 2020, 55, 259-271.	7.0	120
39	Distinct Organization and Regulation of the Outer Kinetochore KMN Network Downstream of CENP-C and CENP-T. <i>Current Biology</i> , 2015, 25, 671-677.	3.9	119
40	Aurora B kinase controls the targeting of the Astrin-SKAP complex to bioriented kinetochores. <i>Journal of Cell Biology</i> , 2010, 191, 269-280.	5.2	113
41	Kinetochore Protein Interactions and their Regulation by the Aurora Kinase Ipl1p. <i>Molecular Biology of the Cell</i> , 2003, 14, 3342-3355.	2.1	106
42	Distinct Roles of RZZ and Bub1-KNL1 in Mitotic Checkpoint Signaling and Kinetochore Expansion. <i>Current Biology</i> , 2018, 28, 3422-3429.e5.	3.9	97
43	<i>Saccharomyces cerevisiae</i> Duo1p and Dam1p, Novel Proteins Involved in Mitotic Spindle Function. <i>Journal of Cell Biology</i> , 1998, 143, 1029-1040.	5.2	90
44	The CENP-F-like Proteins HCP-1 and HCP-2 Target CLASP to Kinetochores to Mediate Chromosome Segregation. <i>Current Biology</i> , 2005, 15, 771-777.	3.9	90
45	The Zn Finger protein Iguana impacts Hedgehog signaling by promoting ciliogenesis. <i>Developmental Biology</i> , 2010, 337, 148-156.	2.0	87
46	Orientation and structure of the Ndc80 complex on the microtubule lattice. <i>Journal of Cell Biology</i> , 2008, 182, 1055-1061.	5.2	86
47	The kinetochore-microtubule interface at a glance. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	86
48	CDK-dependent phosphorylation and nuclear exclusion coordinately control kinetochore assembly state. <i>Journal of Cell Biology</i> , 2013, 201, 23-32.	5.2	84
49	Cdk1 and Plk1 mediate a CLASP2 phospho-switch that stabilizes kinetochore-microtubule attachments. <i>Journal of Cell Biology</i> , 2012, 199, 285-301.	5.2	80
50	Centromeres are maintained by fastening CENP-A to DNA and directing an arginine anchor-dependent nucleosome transition. <i>Nature Communications</i> , 2017, 8, 15775.	12.8	75
51	Kinetochore assembly: if you build it, they will come. <i>Current Opinion in Cell Biology</i> , 2011, 23, 102-108.	5.4	64
52	Spindle assembly checkpoint robustness requires Tpr-mediated regulation of Mad1/Mad2 proteostasis. <i>Journal of Cell Biology</i> , 2013, 203, 883-893.	5.2	63
53	Induced dicentric chromosome formation promotes genomic rearrangements and tumorigenesis. <i>Chromosome Research</i> , 2013, 21, 407-418.	2.2	62
54	Quiescent Cells Actively Replenish CENP-A Nucleosomes to Maintain Centromere Identity and Proliferative Potential. <i>Developmental Cell</i> , 2019, 51, 35-48.e7.	7.0	61

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55	Dad1p, Third Component of the Duo1p/Dam1p Complex Involved in Kinetochores Function and Mitotic Spindle Integrity. <i>Molecular Biology of the Cell</i> , 2001, 12, 2601-2613.	2.1	60
56	The microtubule-binding protein Cep170 promotes the targeting of the kinesin-13 depolymerase Kif2b to the mitotic spindle. <i>Molecular Biology of the Cell</i> , 2012, 23, 4786-4795.	2.1	53
57	Alpha-satellite RNA transcripts are repressed by centromere-nucleolus associations. <i>ELife</i> , 2020, 9, .	6.0	53
58	Toward a Molecular Structure of the Eukaryotic Kinetochores. <i>Developmental Cell</i> , 2008, 15, 645-655.	7.0	51
59	LAB-1 Targets PP1 and Restricts Aurora B Kinase upon Entrance into Meiosis to Promote Sister Chromatid Cohesion. <i>PLoS Biology</i> , 2012, 10, e1001378.	5.6	51
60	Targeted proteomic dissection of <i>Toxoplasma</i> cytoskeleton subcompartments using MORN1. <i>Cytoskeleton</i> , 2012, 69, 1069-1085.	2.0	49
61	The functions and consequences of force at kinetochores. <i>Journal of Cell Biology</i> , 2013, 200, 557-565.	5.2	44
62	Kinetochores genes are coordinately up-regulated in human tumors as part of a FoxM1-related cell division program. <i>Molecular Biology of the Cell</i> , 2014, 25, 1983-1994.	2.1	44
63	Astrin-SKAP complex reconstitution reveals its kinetochores interaction with microtubule-bound Ndc80. <i>ELife</i> , 2017, 6, .	6.0	41
64	Affinity Purification of Protein Complexes in <i>C. elegans</i> . <i>Methods in Cell Biology</i> , 2011, 106, 289-322.	1.1	40
65	Kinetochores assembly throughout the cell cycle. <i>Seminars in Cell and Developmental Biology</i> , 2021, 117, 62-74.	5.0	38
66	Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. <i>Chromosome Research</i> , 2013, 21, 101-106.	2.2	37
67	Cohesin Removal Reprograms Gene Expression upon Mitotic Entry. <i>Molecular Cell</i> , 2020, 78, 127-140.e7.	9.7	36
68	A mitotic SKAP isoform regulates spindle positioning at astral microtubule plus ends. <i>Journal of Cell Biology</i> , 2016, 213, 315-328.	5.2	34
69	Microcephaly Modeling of Kinetochores Mutation Reveals a Brain-Specific Phenotype. <i>Cell Reports</i> , 2018, 25, 368-382.e5.	6.4	34
70	CSAP localizes to polyglutamylated microtubules and promotes proper cilia function and zebrafish development. <i>Molecular Biology of the Cell</i> , 2012, 23, 2122-2130.	2.1	31
71	Microtubule Tip Tracking by the Spindle and Kinetochores Protein Ska1 Requires Diverse Tubulin-Interacting Surfaces. <i>Current Biology</i> , 2017, 27, 3666-3675.e6.	3.9	28
72	Cell division: AAAacking the mitotic spindle. <i>Current Biology</i> , 2004, 14, R70-R72.	3.9	26

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73	Structural comparison of the <i>Caenorhabditis elegans</i> and human Ndc80 complexes bound to microtubules reveals distinct binding behavior. <i>Molecular Biology of the Cell</i> , 2016, 27, 1197-1203.	2.1	24
74	Ectopic Activation of the Spindle Assembly Checkpoint Signaling Cascade Reveals Its Biochemical Design. <i>Current Biology</i> , 2019, 29, 104-119.e10.	3.9	23
75	The AAA+ATPase TorsinA polymerizes into hollow helical tubes with 8.5 subunits per turn. <i>Nature Communications</i> , 2019, 10, 3262.	12.8	22
76	A highly specialized social grooming honey bee (Hymenoptera: Apidae). <i>Journal of Insect Behavior</i> , 1995, 8, 855-861.	0.7	21
77	Separase cleaves the kinetochore protein Meikin at the meiosis I/II transition. <i>Developmental Cell</i> , 2021, 56, 2192-2206.e8.	7.0	20
78	Nde1 promotes diverse dynein functions through differential interactions and exhibits an isoform-specific proteasome association. <i>Molecular Biology of the Cell</i> , 2018, 29, 2336-2345.	2.1	16
79	Differential requirements for the CENP-O complex reveal parallel PLK1 kinetochore recruitment pathways. <i>Molecular Biology of the Cell</i> , 2021, 32, 712-721.	2.1	16
80	CRISPR/Cas9-based gene targeting using synthetic guide RNAs enables robust cell biological analyses. <i>Molecular Biology of the Cell</i> , 2018, 29, 2370-2377.	2.1	14
81	Selective dephosphorylation by PP2A-B55 directs the meiosis I-meiosis II transition in oocytes. <i>ELife</i> , 2021, 10, .	6.0	13
82	The outer kinetochore protein KNL-1 contains a defined oligomerization domain in nematodes. <i>Molecular Biology of the Cell</i> , 2015, 26, 229-237.	2.1	11
83	Polarized Dishevelled dissolution and reassembly drives embryonic axis specification in sea star oocytes. <i>Current Biology</i> , 2021, 31, 5633-5641.e4.	3.9	8
84	Feeling tense enough?. <i>Nature</i> , 2004, 428, 32-33.	27.8	7
85	Dynamic regulation of dynein localization revealed by small molecule inhibitors of ubiquitination enzymes. <i>Open Biology</i> , 2018, 8, .	3.6	7
86	Chromosome Segregation: Keeping Kinetochores in the Loop. <i>Current Biology</i> , 2011, 21, R110-R112.	3.9	6
87	Resonance assignments of the microtubule-binding domain of the <i>C. elegans</i> spindle and kinetochore-associated protein 1. <i>Biomolecular NMR Assignments</i> , 2014, 8, 275-278.	0.8	5
88	Chromosome Segregation: Evolving a Plastic Chromosome-Microtubule Interface. <i>Current Biology</i> , 2020, 30, R174-R177.	3.9	5
89	Chromosome Segregation: A Spatial Code to Correct Kinetochore-Microtubule Attachments. <i>Current Biology</i> , 2015, 25, R601-R603.	3.9	4
90	Permitted and restricted steps of human kinetochore assembly in mitotic cell extracts. <i>Molecular Biology of the Cell</i> , 2021, 32, 1241-1255.	2.1	4

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91	T time for point centromeres. <i>Nature Cell Biology</i> , 2012, 14, 559-561.	10.3	3
92	Tension at EMBO's Aneuploidy Workshop. <i>EMBO Reports</i> , 2010, 11, 727-729.	4.5	0
93	Kinetochores Structure: Pulling Answers from Yeast. <i>Current Biology</i> , 2012, 22, R842-R844.	3.9	0