

# Andrew Fry

## List of Publications by Year in descending order

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102  
papers

6,633  
citations

53794

45  
h-index

64796

79  
g-index

155  
all docs

155  
docs citations

155  
times ranked

6751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Centrosome duplication in mammalian somatic cells requires E2F and Cdk2â€“Cyclin A. <i>Nature Cell Biology</i> , 1999, 1, 88-93.	10.3	431
2	C-Nap1, a Novel Centrosomal Coiled-Coil Protein and Candidate Substrate of the Cell Cycleâ€“regulated Protein Kinase Nek2. <i>Journal of Cell Biology</i> , 1998, 141, 1563-1574.	5.2	398
3	Cell cycle regulation by the NEK family of protein kinases. <i>Journal of Cell Science</i> , 2012, 125, 4423-33.	2.0	289
4	Nek2A kinase stimulates centrosome disjunction and is required for formation of bipolar mitotic spindles. <i>Molecular Biology of the Cell</i> , 2003, 14, 2876-2889.	2.1	214
5	The Centrosomal Protein C-Nap1 Is Required for Cell Cycleâ€“Regulated Centrosome Cohesion. <i>Journal of Cell Biology</i> , 2000, 151, 837-846.	5.2	207
6	The Nek2 protein kinase: a novel regulator of centrosome structure. <i>Oncogene</i> , 2002, 21, 6184-6194.	5.9	203
7	Efficient genetic encoding of phosphoserine and its nonhydrolyzable analog. <i>Nature Chemical Biology</i> , 2015, 11, 496-503.	8.0	189
8	Mitotic regulation by NIMA-related kinases. <i>Cell Division</i> , 2007, 2, 25.	2.4	178
9	Components of the Hippo pathway cooperate with Nek2 kinase to regulate centrosome disjunction. <i>Nature Cell Biology</i> , 2010, 12, 1166-1176.	10.3	168
10	The Centrosomal Kinase Nek2 Displays Elevated Levels of Protein Expression in Human Breast Cancer. <i>Cancer Research</i> , 2004, 64, 7370-7376.	0.9	167
11	The Nek6 and Nek7 Protein Kinases Are Required for Robust Mitotic Spindle Formation and Cytokinesis. <i>Molecular and Cellular Biology</i> , 2009, 29, 3975-3990.	2.3	160
12	Nek2 kinase in chromosome instability and cancer. <i>Cancer Letters</i> , 2006, 237, 155-166.	7.2	155
13	Spatial Exclusivity Combined with Positive and Negative Selection of Phosphorylation Motifs Is the Basis for Context-Dependent Mitotic Signaling. <i>Science Signaling</i> , 2011, 4, ra42.	3.6	155
14	Centriolar satellites are assembly points for proteins implicated in human ciliopathies, including oral-facial-digital syndrome 1. <i>Journal of Cell Science</i> , 2011, 124, 600-612.	2.0	153
15	Early mitotic degradation of Nek2A depends on Cdc20-independent interaction with the APC/C. <i>Nature Cell Biology</i> , 2006, 8, 607-614.	10.3	142
16	Substrate Specificity and Cell Cycle Regulation of the Nek2 Protein Kinase, a Potential Human Homolog of the Mitotic Regulator NIMA of <i>Aspergillus nidulans</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 12899-12905.	3.4	140
17	Polo-like Kinase-2 Is Required for Centriole Duplication in Mammalian Cells. <i>Current Biology</i> , 2004, 14, 1200-1207.	3.9	133
18	Histone deacetylase (HDAC) 1 and 2 are essential for accurate cell division and the pluripotency of embryonic stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9840-9845.	7.1	130

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19	A Role for the Fizzy/Cdc20 Family of Proteins in Activation of the APC/C Distinct from Substrate Recruitment. <i>Molecular Cell</i> , 2008, 32, 576-583.	9.7	122
20	The oral-facial-digital syndrome gene C2CD3 encodes a positive regulator of centriole elongation. <i>Nature Genetics</i> , 2014, 46, 905-911.	21.4	121
21	Dynamic Recruitment of Nek2 Kinase to the Centrosome Involves Microtubules, PCM-1, and Localized Proteasomal Degradation. <i>Molecular Biology of the Cell</i> , 2005, 16, 1711-1724.	2.1	99
22	Crystal structure of EML1 reveals the basis for Hsp90 dependence of oncogenic EML4-ALK by disruption of an atypical I <sup>2</sup> -propeller domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5195-5200.	7.1	93
23	On the molecular mechanisms of mitotic kinase activation. <i>Open Biology</i> , 2012, 2, 120136.	3.6	92
24	Structure and Regulation of the Human Nek2 Centrosomal Kinase. <i>Journal of Biological Chemistry</i> , 2007, 282, 6833-6842.	3.4	90
25	Coordinate Regulation of the Mother Centriole Component Nlp by Nek2 and Plk1 Protein Kinases. <i>Molecular and Cellular Biology</i> , 2005, 25, 1309-1324.	2.3	83
26	An Autoinhibitory Tyrosine Motif in the Cell-Cycle-Regulated Nek7 Kinase Is Released through Binding of Nek9. <i>Molecular Cell</i> , 2009, 36, 560-570.	9.7	83
27	Molecular mechanisms that underpin EML4-ALK driven cancers and their response to targeted drugs. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 1209-1224.	5.4	80
28	Activity of the Human Centrosomal Kinase, Nek2, Depends on an Unusual Leucine Zipper Dimerization Motif. <i>Journal of Biological Chemistry</i> , 1999, 274, 16304-16310.	3.4	79
29	Microtubule association of EML proteins and the EML4-ALK variant 3 oncoprotein require an N-terminal trimerization domain. <i>Biochemical Journal</i> , 2015, 467, 529-536.	3.7	73
30	Protein kinases in control of the centrosome cycle. <i>FEBS Letters</i> , 1999, 452, 92-95.	2.8	70
31	The primary cilium. <i>Organogenesis</i> , 2014, 10, 62-68.	1.2	70
32	Mitotic Regulation by NEK Kinase Networks. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 102.	3.7	68
33	Alternative splice variants of the human centrosome kinase Nek2 exhibit distinct patterns of expression in mitosis. <i>Biochemical Journal</i> , 2002, 361, 77-85.	3.7	65
34	EGF-Induced Centrosome Separation Promotes Mitotic Progression and Cell Survival. <i>Developmental Cell</i> , 2013, 25, 229-240.	7.0	65
35	Increased expression and nuclear localization of the centrosomal kinase Nek2 in human testicular seminomas. <i>Journal of Pathology</i> , 2009, 217, 431-441.	4.5	63
36	Poc1A and Poc1B act together in human cells to ensure centriole integrity. <i>Journal of Cell Science</i> , 2013, 126, 163-175.	2.0	60

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37	Molecular Dissection of the Centrosome Overduplication Pathway in S-Phase-Arrested Cells. <i>Molecular and Cellular Biology</i> , 2009, 29, 1760-1773.	2.3	59
38	Design of Potent and Selective Hybrid Inhibitors of the Mitotic Kinase Nek2: Structure-Activity Relationship, Structural Biology, and Cellular Activity. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 3228-3241.	6.4	59
39	Overexpression of the Nek2 kinase in colorectal cancer correlates with beta-catenin relocalization and shortened cancer-specific survival. <i>Journal of Surgical Oncology</i> , 2014, 110, 828-838.	1.7	59
40	Alternative Splicing Controls Nuclear Translocation of the Cell Cycle-regulated Nek2 Kinase. <i>Journal of Biological Chemistry</i> , 2007, 282, 26431-26440.	3.4	57
41	Mutation of <i>POC1B</i> in a Severe Syndromic Retinal Ciliopathy. <i>Human Mutation</i> , 2014, 35, 1153-1162.	2.5	57
42	The Nek8 protein kinase, mutated in the human cystic kidney disease nephronophthisis, is both activated and degraded during ciliogenesis. <i>Human Molecular Genetics</i> , 2012, 21, 1155-1171.	2.9	55
43	The NIMA-related kinase X-Nek2B is required for efficient assembly of the zygotic centrosome in <i>Xenopus laevis</i> . <i>Journal of Cell Science</i> , 2000, 113, 1973-1984.	2.0	53
44	The MiDAC histone deacetylase complex is essential for embryonic development and has a unique multivalent structure. <i>Nature Communications</i> , 2020, 11, 3252.	12.8	51
45	Alternative splice variants of the human centrosome kinase Nek2 exhibit distinct patterns of expression in mitosis. <i>Biochemical Journal</i> , 2002, 361, 77.	3.7	50
46	Cell Cycle: The NIMA kinase joins forces with Cdc2. <i>Current Biology</i> , 1995, 5, 1122-1125.	3.9	49
47	Multisite phosphorylation of C-Nap1 releases it from Cep135 to trigger centrosome disjunction. <i>Journal of Cell Science</i> , 2014, 127, 2493-506.	2.0	48
48	Insights into the Conformational Variability and Regulation of Human Nek2 Kinase. <i>Journal of Molecular Biology</i> , 2009, 386, 476-485.	4.2	47
49	Hsp72 is targeted to the mitotic spindle by Nek6 to promote K-fiber assembly and mitotic progression. <i>Journal of Cell Biology</i> , 2015, 209, 349-358.	5.2	44
50	Mechanistic basis of Nek7 activation through Nek9 binding and induced dimerization. <i>Nature Communications</i> , 2015, 6, 8771.	12.8	43
51	Plasmodium APC3 mediates chromosome condensation and cytokinesis during atypical mitosis in male gametogenesis. <i>Scientific Reports</i> , 2018, 8, 5610.	3.3	43
52	Nek5 promotes centrosome integrity in interphase and loss of centrosome cohesion in mitosis. <i>Journal of Cell Biology</i> , 2015, 209, 339-348.	5.2	40
53	Genomic discovery of an evolutionarily programmed modality for small-molecule targeting of an intractable protein surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17195-17203.	7.1	40
54	Oscillation of APC/C activity during cell cycle arrest promotes centrosome amplification. <i>Journal of Cell Science</i> , 2012, 125, 5353-68.	2.0	39

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55	Recent advances in pericentriolar material organization: ordered layers and scaffolding gels. <i>F1000Research</i> , 2017, 6, 1622.	1.6	37
56	Characterization of mammalian NIMA-related kinases. <i>Methods in Enzymology</i> , 1997, 283, 270-282.	1.0	36
57	A role for Nek6 kinase activity in preventing senescence?. <i>Cell Cycle</i> , 2011, 10, 23-22.	2.6	36
58	An Undecided Coiled Coil. <i>Journal of Biological Chemistry</i> , 2011, 286, 27537-27547.	3.4	33
59	Phase-separated foci of EML4-ALK facilitate signalling and depend upon an active kinase conformation. <i>EMBO Reports</i> , 2021, 22, e53693.	4.5	31
60	APC/C-Mediated Degradation in Early Mitosis: How to Avoid Spindle Assembly Checkpoint Inhibition. <i>Cell Cycle</i> , 2006, 5, 1487-1491.	2.6	30
61	Identification by High-Throughput Screening of Viridin Analogs as Biochemical and Cell-Based Inhibitors of the Cell Cycle-Regulated Nek2 Kinase. <i>Journal of Biomolecular Screening</i> , 2010, 15, 918-927.	2.6	30
62	Mitotic phosphorylation by NEK6 and NEK7 reduces the microtubule affinity of EML4 to promote chromosome congression. <i>Science Signaling</i> , 2019, 12, .	3.6	30
63	EML4-ALK V3 oncogenic fusion proteins promote microtubule stabilization and accelerated migration through NEK9 and NEK7. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	30
64	Regulating centrosomes by protein phosphorylation. <i>Current Topics in Developmental Biology</i> , 1999, 49, 291-312.	2.2	29
65	Pix Proteins and the Evolution of Centrioles. <i>PLoS ONE</i> , 2008, 3, e3778.	2.5	28
66	EML proteins in microtubule regulation and human disease. <i>Biochemical Society Transactions</i> , 2016, 44, 1281-1288.	3.4	24
67	Hsp72 and Nek6 Cooperate to Cluster Amplified Centrosomes in Cancer Cells. <i>Cancer Research</i> , 2017, 77, 4785-4796.	0.9	24
68	Pix1 and Pix2 are novel WD40 microtubule-associated proteins that colocalize with mitochondria in <i>Xenopus</i> germ plasm and centrosomes in human cells. <i>Experimental Cell Research</i> , 2008, 314, 574-589.	2.6	23
69	Nek2B stimulates zygotic centrosome assembly in <i>Xenopus laevis</i> in a kinase-independent manner. <i>Developmental Biology</i> , 2004, 265, 384-398.	2.0	22
70	Quantum counting: Operator methods for discrete population dynamics with applications to cell division. <i>Progress in Biophysics and Molecular Biology</i> , 2017, 130, 106-119.	2.9	21
71	Loss of Nek11 Prevents G2/M Arrest and Promotes Cell Death in HCT116 Colorectal Cancer Cells Exposed to Therapeutic DNA Damaging Agents. <i>PLoS ONE</i> , 2015, 10, e0140975.	2.5	19
72	OFD1 and Flotillins Are Integral Components of a Ciliary Signaling Protein Complex Organized by Polycystins in Renal Epithelia and Odontoblasts. <i>PLoS ONE</i> , 2014, 9, e106330.	2.5	15

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73	The structural mechanisms that underpin mitotic kinase activation. <i>Biochemical Society Transactions</i> , 2013, 41, 1037-1041.	3.4	14
74	Novel insights into the mechanisms of mitotic spindle assembly by NEK kinases. <i>Molecular and Cellular Oncology</i> , 2016, 3, e1062952.	0.7	14
75	BRCA1/MAD2L1 Deficiency Disrupts the Spindle Assembly Checkpoint to Confer Vinorelbine Resistance in Mesothelioma. <i>Molecular Cancer Therapeutics</i> , 2021, 20, 379-388.	4.1	13
76	Structure-guided design of purine-based probes for selective Nek2 inhibition. <i>Oncotarget</i> , 2017, 8, 19089-19124.	1.8	13
77	Nek2. <i>The AFCS-nature Molecule Pages</i> , 0, , .	0.2	11
78	Mitotic phosphorylation regulates Hsp72 spindle localization by uncoupling ATP binding from substrate release. <i>Science Signaling</i> , 2018, 11, .	3.6	8
79	2-Arylamino-6-ethynylpurines are cysteine-targeting irreversible inhibitors of Nek2 kinase. <i>RSC Medicinal Chemistry</i> , 2020, 11, 707-731.	3.9	8
80	The Role of the Centrosome in Cell Cycle Progression. , 2005, , 143-166.		7
81	Cdc20 turnover rate: A key determinant in cancer patient response to anti-mitotic therapies?. <i>BioEssays</i> , 2013, 35, 762-762.	2.5	7
82	Fluorescence Imaging of the Centrosome Cycle in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2009, 545, 165-183.	0.9	6
83	Hsp70 proteins in mitosis and disease. <i>Oncotarget</i> , 2015, 6, 32293-32294.	1.8	6
84	EML4-ALK Variant 3 Promotes Mitotic Errors and Spindle Assembly Checkpoint Deficiency Leading to Increased Microtubule Poison Sensitivity. <i>Molecular Cancer Research</i> , 2022, 20, 854-866.	3.4	6
85	Alternative Treatment Options to ALK Inhibitor Monotherapy for EML4-ALK-Driven Lung Cancer. <i>Cancers</i> , 2022, 14, 3452.	3.7	6
86	Under arrest in mitosis: Cdc20 dies twice. <i>Nature Cell Biology</i> , 2008, 10, 1385-1387.	10.3	5
87	Identification of centrosome kinases. <i>Methods in Cell Biology</i> , 2001, 67, 305-323.	1.1	4
88	A new tool for the chemical genetic investigation of the Plasmodium falciparum Pfnek-2 NIMA-related kinase. <i>Malaria Journal</i> , 2016, 15, 535.	2.3	4
89	Nek5: a new regulator of centrosome integrity. <i>Oncotarget</i> , 2015, 6, 24594-24595.	1.8	4
90	Sealed with a Kiz: How Plk1 Ensures Spindle Pole Integrity. <i>Developmental Cell</i> , 2006, 11, 431-432.	7.0	3

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91	Construction of a human hTERT RPE-1 cell line with inducible Cre for editing of endogenous genes. <i>Biology Open</i> , 2022, 11, .	1.2	3
92	A Polytherapy Strategy Using Vincristine and ALK Inhibitors to Sensitise EML4-ALK-Positive NSCLC. <i>Cancers</i> , 2022, 14, 779.	3.7	3
93	Regulation of the Centrosome Cycle by Protein Degradation. , 2012, , 157-172.		1
94	nrip1 (Nuclear Receptor-Interacting Protein 1). , 2012, , 1268-1274.		0
95	NR1B1. , 2012, , 1261-1261.		0
96	NCAM1. , 2012, , 1183-1187.		0
97	Nek2. , 2011, , 2470-2471.		0
98	Nek2. , 2015, , 1-3.		0
99	Nek2. , 2017, , 3037-3039.		0
100	NEKs, NIMA-Related Kinases. , 2018, , 3407-3419.		0
101	EML4-ALK V3 Drives Cell Migration Through NEK9 and NEK7 Kinases in Non-Small-Cell Lung Cancer. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
102	Nek2. , 2008, , 2036-2037.		0