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	Construction of a human hTERT RPE-1 cell line with inducible Cre for editing of endogenous genes. Biology Open, 2022, 11, .	1.2	3
2	A Polytherapy Strategy Using Vincristine and ALK Inhibitors to Sensitise EML4-ALK-Positive NSCLC. Cancers, 2022, 14, 779.	3.7	3
3	EML4-ALK Variant 3 Promotes Mitotic Errors and Spindle Assembly Checkpoint Deficiency Leading to Increased Microtubule Poison Sensitivity. Molecular Cancer Research, 2022, 20, 854-866.	3.4	6
4	Alternative Treatment Options to ALK Inhibitor Monotherapy for EML4-ALK-Driven Lung Cancer. Cancers, 2022, 14, 3452.	3.7	6
5	BRCA1/MAD2L1 Deficiency Disrupts the Spindle Assembly Checkpoint to Confer Vinorelbine Resistance in Mesothelioma. Molecular Cancer Therapeutics, 2021, 20, 379-388.	4.1	13
6	Phaseâ€separated foci of EML4â€ALK facilitate signalling and depend upon an active kinase conformation. EMBO Reports, 2021, 22, e53693.	4.5	31
7	The MiDAC histone deacetylase complex is essential for embryonic development and has a unique multivalent structure. Nature Communications, 2020, 11, 3252.	12.8	51
8	Genomic discovery of an evolutionarily programmed modality for small-molecule targeting of an intractable protein surface. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17195-17203.	7.1	40
9	EML4-ALK V3 oncogenic fusion proteins promote microtubule stabilization and accelerated migration through NEK9 and NEK7. Journal of Cell Science, 2020, 133, .	2.0	30
10	2-Arylamino-6-ethynylpurines are cysteine-targeting irreversible inhibitors of Nek2 kinase. RSC Medicinal Chemistry, 2020, 11, 707-731.	3.9	8
11	Mitotic phosphorylation by NEK6 and NEK7 reduces the microtubule affinity of EML4 to promote chromosome congression. Science Signaling, 2019, 12, .	3.6	30
12	Plasmodium APC3 mediates chromosome condensation and cytokinesis during atypical mitosis in male gametogenesis. Scientific Reports, 2018, 8, 5610.	3.3	43
13	Mitotic phosphorylation regulates Hsp72 spindle localization by uncoupling ATP binding from substrate release. Science Signaling, 2018, 11, .	3.6	8
14	NEKs, NIMA-Related Kinases. , 2018, , 3407-3419.		0
15	Hsp72 and Nek6 Cooperate to Cluster Amplified Centrosomes in Cancer Cells. Cancer Research, 2017, 77, 4785-4796.	0.9	24
16	Quantum counting: Operator methods for discrete population dynamics with applications to cell division. Progress in Biophysics and Molecular Biology, 2017, 130, 106-119.	2.9	21
17	Recent advances in pericentriolar material organization: ordered layers and scaffolding gels. F1000Research, 2017, 6, 1622.	1.6	37
18	Mitotic Regulation by NEK Kinase Networks. Frontiers in Cell and Developmental Biology, 2017, 5, 102.	3.7	68

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19	Structure-guided design of purine-based probes for selective Nek2 inhibition. Oncotarget, 2017, 8, 19089-19124.	1.8	13
20	Nek2. , 2017, , 3037-3039.		0
21	A new tool for the chemical genetic investigation of the Plasmodium falciparum Pfnek-2 NIMA-related kinase. Malaria Journal, 2016, 15, 535.	2.3	4
22	EML proteins in microtubule regulation and human disease. Biochemical Society Transactions, 2016, 44, 1281-1288.	3.4	24
23	Novel insights into the mechanisms of mitotic spindle assembly by NEK kinases. Molecular and Cellular Oncology, 2016, 3, e1062952.	0.7	14
24	Molecular mechanisms that underpin EML4-ALK driven cancers and their response to targeted drugs. Cellular and Molecular Life Sciences, 2016, 73, 1209-1224.	5.4	80
25	Efficient genetic encoding of phosphoserine and its nonhydrolyzable analog. Nature Chemical Biology, 2015, 11, 496-503.	8.0	189
26	Microtubule association of EML proteins and the EML4-ALK variant 3 oncoprotein require an N-terminal trimerization domain. Biochemical Journal, 2015, 467, 529-536.	3.7	73
27	Hsp72 is targeted to the mitotic spindle by Nek6 to promote K-fiber assembly and mitotic progression. Journal of Cell Biology, 2015, 209, 349-358.	5.2	44
28	Nek5 promotes centrosome integrity in interphase and loss of centrosome cohesion in mitosis. Journal of Cell Biology, 2015, 209, 339-348.	5.2	40
29	Mechanistic basis of Nek7 activation through Nek9 binding and induced dimerization. Nature Communications, 2015, 6, 8771.	12.8	43
30	Loss of Nek11 Prevents G2/M Arrest and Promotes Cell Death in HCT116 Colorectal Cancer Cells Exposed to Therapeutic DNA Damaging Agents. PLoS ONE, 2015, 10, e0140975.	2.5	19
31	Nek5: a new regulator of centrosome integrity. Oncotarget, 2015, 6, 24594-24595.	1.8	4
32	Hsp70 proteins in mitosis and disease. Oncotarget, 2015, 6, 32293-32294.	1.8	6
33	Nek2. , 2015, , 1-3.		0
34	OFD1 and Flotillins Are Integral Components of a Ciliary Signaling Protein Complex Organized by Polycystins in Renal Epithelia and Odontoblasts. PLoS ONE, 2014, 9, e106330.	2.5	15
35	Crystal structure of EML1 reveals the basis for Hsp90 dependence of oncogenic EML4-ALK by disruption of an atypical Î²-propeller domain. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5195-5200.	7.1	93
36	The primary cilium. Organogenesis, 2014, 10, 62-68.	1.2	70

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37	Multisite phosphorylation of C-Nap1 releases it from Cep135 to trigger centrosome disjunction. Journal of Cell Science, 2014, 127, 2493-506.	2.0	48
38	Overexpression of the Nek2 kinase in colorectal cancer correlates with beta-catenin relocalization and shortened cancer-specific survival. Journal of Surgical Oncology, 2014, 110, 828-838.	1.7	59
39	The oral-facial-digital syndrome gene C2CD3 encodes a positive regulator of centriole elongation. Nature Genetics, 2014, 46, 905-911.	21.4	121
40	Mutation ofPOC1Bin a Severe Syndromic Retinal Ciliopathy. Human Mutation, 2014, 35, 1153-1162.	2.5	57
41	Histone deacetylase (HDAC) 1 and 2 are essential for accurate cell division and the pluripotency of embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9840-9845.	7.1	130
42	Poc1A and Poc1B act together in human cells to ensure centriole integrity. Journal of Cell Science, 2013, 126, 163-175.	2.0	60
43	EGF-Induced Centrosome Separation Promotes Mitotic Progression and Cell Survival. Developmental Cell, 2013, 25, 229-240.	7.0	65
44	Cdc20 turnover rate: A key determinant in cancer patient response to antiâ€mitotic therapies?. BioEssays, 2013, 35, 762-762.	2.5	7
45	The structural mechanisms that underpin mitotic kinase activation. Biochemical Society Transactions, 2013, 41, 1037-1041.	3.4	14
46	Cell cycle regulation by the NEK family of protein kinases. Journal of Cell Science, 2012, 125, 4423-33.	2.0	289
47	The Nek8 protein kinase, mutated in the human cystic kidney disease nephronophthisis, is both activated and degraded during ciliogenesis. Human Molecular Genetics, 2012, 21, 1155-1171.	2.9	55
48	Oscillation of APC/C activity during cell cycle arrest promotes centrosome amplification. Journal of Cell Science, 2012, 125, 5353-68.	2.0	39
49	On the molecular mechanisms of mitotic kinase activation. Open Biology, 2012, 2, 120136.	3.6	92
50	nrip1 (Nuclear Receptor-Interacting Protein 1). , 2012, , 1268-1274.		0
51	NR1B1. , 2012, , 1261-1261.		0
52	NCAM1. , 2012, , 1183-1187.		0
53	Design of Potent and Selective Hybrid Inhibitors of the Mitotic Kinase Nek2: Structureâ€“Activity Relationship, Structural Biology, and Cellular Activity. Journal of Medicinal Chemistry, 2012, 55, 3228-3241.	6.4	59
54	Regulation of the Centrosome Cycle by Protein Degradation. , 2012, , 157-172.		1

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55	Spatial Exclusivity Combined with Positive and Negative Selection of Phosphorylation Motifs Is the Basis for Context-Dependent Mitotic Signaling. Science Signaling, 2011, 4, ra42.	3.6	155
56	Centriolar satellites are assembly points for proteins implicated in human ciliopathies, including oral-facial-digital syndrome 1. Journal of Cell Science, 2011, 124, 600-612.	2.0	153
57	A role for Nek6 kinase activity in preventing senescence?. Cell Cycle, 2011, 10, 23-22.	2.6	36
58	An Undecided Coiled Coil. Journal of Biological Chemistry, 2011, 286, 27537-27547.	3.4	33
59	Nek2. , 2011, , 2470-2471.		0
60	Components of the Hippo pathway cooperate with Nek2 kinase to regulate centrosome disjunction. Nature Cell Biology, 2010, 12, 1166-1176.	10.3	168
61	Identification by High-Throughput Screening of Viridin Analogs as Biochemical and Cell-Based Inhibitors of the Cell Cycleâ€“Regulated Nek2 Kinase. Journal of Biomolecular Screening, 2010, 15, 918-927.	2.6	30
62	Molecular Dissection of the Centrosome Overduplication Pathway in S-Phase-Arrested Cells. Molecular and Cellular Biology, 2009, 29, 1760-1773.	2.3	59
63	The Nek6 and Nek7 Protein Kinases Are Required for Robust Mitotic Spindle Formation and Cytokinesis. Molecular and Cellular Biology, 2009, 29, 3975-3990.	2.3	160
64	Increased expression and nuclear localization of the centrosomal kinase Nek2 in human testicular seminomas. Journal of Pathology, 2009, 217, 431-441.	4.5	63
65	Insights into the Conformational Variability and Regulation of Human Nek2 Kinase. Journal of Molecular Biology, 2009, 386, 476-485.	4.2	47
66	An Autoinhibitory Tyrosine Motif in the Cell-Cycle-Regulated Nek7 Kinase Is Released through Binding of Nek9. Molecular Cell, 2009, 36, 560-570.	9.7	83
67	Fluorescence Imaging of the Centrosome Cycle in Mammalian Cells. Methods in Molecular Biology, 2009, 545, 165-183.	0.9	6
68	Under arrest in mitosis: Cdc20 dies twice. Nature Cell Biology, 2008, 10, 1385-1387.	10.3	5
69	Pix1 and Pix2 are novel WD40 microtubule-associated proteins that colocalize with mitochondria in Xenopus germ plasm and centrosomes in human cells. Experimental Cell Research, 2008, 314, 574-589.	2.6	23
70	A Role for the Fizzy/Cdc20 Family of Proteins in Activation of the APC/C Distinct from Substrate Recruitment. Molecular Cell, 2008, 32, 576-583.	9.7	122
71	Pix Proteins and the Evolution of Centrioles. PLoS ONE, 2008, 3, e3778.	2.5	28
72	Nek2. , 2008, , 2036-2037.		0

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73	Structure and Regulation of the Human Nek2 Centrosomal Kinase. Journal of Biological Chemistry, 2007, 282, 6833-6842.	3.4	90
74	Alternative Splicing Controls Nuclear Translocation of the Cell Cycle-regulated Nek2 Kinase. Journal of Biological Chemistry, 2007, 282, 26431-26440.	3.4	57
75	Mitotic regulation by NIMA-related kinases. Cell Division, 2007, 2, 25.	2.4	178
76	Nek2 kinase in chromosome instability and cancer. Cancer Letters, 2006, 237, 155-166.	7.2	155
77	Sealed with a Kiz: How Plk1 Ensures Spindle Pole Integrity. Developmental Cell, 2006, 11, 431-432.	7.0	3
78	Early mitotic degradation of Nek2A depends on Cdc20-independent interaction with the APC/C. Nature Cell Biology, 2006, 8, 607-614.	10.3	142
79	APC/C-Mediated Degradation in Early Mitosis: How to Avoid Spindle Assembly Checkpoint Inhibition. Cell Cycle, 2006, 5, 1487-1491.	2.6	30
80	The Role of the Centrosome in Cell Cycle Progression. , 2005, , 143-166.		7
81	Dynamic Recruitment of Nek2 Kinase to the Centrosome Involves Microtubules, PCM-1, and Localized Proteasomal Degradation. Molecular Biology of the Cell, 2005, 16, 1711-1724.	2.1	99
82	Coordinate Regulation of the Mother Centriole Component Nlp by Nek2 and Plk1 Protein Kinases. Molecular and Cellular Biology, 2005, 25, 1309-1324.	2.3	83
83	The Centrosomal Kinase Nek2 Displays Elevated Levels of Protein Expression in Human Breast Cancer. Cancer Research, 2004, 64, 7370-7376.	0.9	167
84	Polo-like Kinase-2 Is Required for Centriole Duplication in Mammalian Cells. Current Biology, 2004, 14, 1200-1207.	3.9	133
85	Nek2B stimulates zygotic centrosome assembly in Xenopus laevis in a kinase-independent manner. Developmental Biology, 2004, 265, 384-398.	2.0	22
86	Nek2A kinase stimulates centrosome disjunction and is required for formation of bipolar mitotic spindles. Molecular Biology of the Cell, 2003, 14, 2876-2889.	2.1	214
87	Alternative splice variants of the human centrosome kinase Nek2 exhibit distinct patterns of expression in mitosis. Biochemical Journal, 2002, 361, 77.	3.7	50
88	Alternative splice variants of the human centrosome kinase Nek2 exhibit distinct patterns of expression in mitosis. Biochemical Journal, 2002, 361, 77-85.	3.7	65
89	The Nek2 protein kinase: a novel regulator of centrosome structure. Oncogene, 2002, 21, 6184-6194.	5.9	203
90	Identification of centrosome kinases. Methods in Cell Biology, 2001, 67, 305-323.	1.1	4

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91	The Centrosomal Protein C-Nap1 Is Required for Cell Cycleâ€“Regulated Centrosome Cohesion. Journal of Cell Biology, 2000, 151, 837-846.	5.2	207
92	The NIMA-related kinase X-Nek2B is required for efficient assembly of the zygotic centrosome in Xenopus laevis. Journal of Cell Science, 2000, 113, 1973-1984.	2.0	53
93	Activity of the Human Centrosomal Kinase, Nek2, Depends on an Unusual Leucine Zipper Dimerization Motif. Journal of Biological Chemistry, 1999, 274, 16304-16310.	3.4	79
94	Centrosome duplication in mammalian somatic cells requires E2F and Cdk2â€“Cyclin A. Nature Cell Biology, 1999, 1, 88-93.	10.3	431
95	Protein kinases in control of the centrosome cycle. FEBS Letters, 1999, 452, 92-95.	2.8	70
96	Regulating centrosomes by protein phosphorylation. Current Topics in Developmental Biology, 1999, 49, 291-312.	2.2	29
97	C-Nap1, a Novel Centrosomal Coiled-Coil Protein and Candidate Substrate of the Cell Cycleâ€“regulated Protein Kinase Nek2. Journal of Cell Biology, 1998, 141, 1563-1574.	5.2	398
98	Characterization of mammalian NIMA-related kinases. Methods in Enzymology, 1997, 283, 270-282.	1.0	36
99	Cell Cycle: The NIMA kinase joins forces with Cdc2. Current Biology, 1995, 5, 1122-1125.	3.9	49
100	Substrate Specificity and Cell Cycle Regulation of the Nek2 Protein Kinase, a Potential Human Homolog of the Mitotic Regulator NIMA of Aspergillus nidulans. Journal of Biological Chemistry, 1995, 270, 12899-12905.	3.4	140
101	Nek2. The AFCS-nature Molecule Pages, 0, , .	0.2	11
102	EML4-ALK V3 Drives Cell Migration Through NEK9 and NEK7 Kinases in Non-Small-Cell Lung Cancer. SSRN Electronic Journal, 0, , .	0.4	0