

Michael B Yaffe

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127
papers

11,035
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43
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105
g-index

290
ext. papers

12,512
ext. citations

13
avg, IF

6.37
L-index

#	Paper	IF	Citations
127	Scansite 2.0: Proteome-wide prediction of cell signaling interactions using short sequence motifs. <i>Nucleic Acids Research</i> , 2003 , 31, 3635-41	20.1	1285
126	Systematic discovery of in vivo phosphorylation networks. <i>Cell</i> , 2007 , 129, 1415-26	56.2	611
125	The molecular basis for phosphodependent substrate targeting and regulation of Plks by the Polo-box domain. <i>Cell</i> , 2003 , 115, 83-95	56.2	607
124	Proteomic screen finds pSer/pThr-binding domain localizing Plk1 to mitotic substrates. <i>Science</i> , 2003 , 299, 1228-31	33.3	577
123	Polo-like kinase-1 is activated by aurora A to promote checkpoint recovery. <i>Nature</i> , 2008 , 455, 119-23	50.4	520
122	The PX domains of p47phox and p40phox bind to lipid products of PI(3)K. <i>Nature Cell Biology</i> , 2001 , 3, 675-8	23.4	516
121	A motif-based profile scanning approach for genome-wide prediction of signaling pathways. <i>Nature Biotechnology</i> , 2001 , 19, 348-53	44.5	479
120	p53-deficient cells rely on ATM- and ATR-mediated checkpoint signaling through the p38MAPK/MK2 pathway for survival after DNA damage. <i>Cancer Cell</i> , 2007 , 11, 175-89	24.3	471
119	Kinases that control the cell cycle in response to DNA damage: Chk1, Chk2, and MK2. <i>Current Opinion in Cell Biology</i> , 2009 , 21, 245-55	9	392
118	Tissue plasminogen activator (tPA) treatment for COVID-19 associated acute respiratory distress syndrome (ARDS): A case series. <i>Journal of Thrombosis and Haemostasis</i> , 2020 , 18, 1752-1755	15.4	358
117	MAPKAP kinase-2 is a cell cycle checkpoint kinase that regulates the G2/M transition and S phase progression in response to UV irradiation. <i>Molecular Cell</i> , 2005 , 17, 37-48	17.6	344
116	mTORC1 phosphorylation sites encode their sensitivity to starvation and rapamycin. <i>Science</i> , 2013 , 341, 1236566	33.3	311
115	Phosphoserine/threonine-binding domains. <i>Current Opinion in Cell Biology</i> , 2001 , 13, 131-8	9	302
114	Phosphotyrosine-binding domains in signal transduction. <i>Nature Reviews Molecular Cell Biology</i> , 2002 , 3, 177-86	48.7	287
113	MAP kinase pathways activated by stress: the p38 MAPK pathway. <i>Critical Care Medicine</i> , 2000 , 28, N67-77	4	260
112	The bromodomain protein Brd4 insulates chromatin from DNA damage signalling. <i>Nature</i> , 2013 , 498, 246-50	50.4	214
111	Chemical genetic screen for AMPK α substrates uncovers a network of proteins involved in mitosis. <i>Molecular Cell</i> , 2011 , 44, 878-92	17.6	182

110	14-3-3sigma controls mitotic translation to facilitate cytokinesis. <i>Nature</i> , 2007 , 446, 329-32	50.4	181
109	DNA damage activates a spatially distinct late cytoplasmic cell-cycle checkpoint network controlled by MK2-mediated RNA stabilization. <i>Molecular Cell</i> , 2010 , 40, 34-49	17.6	169
108	Pyruvate kinase isoform expression alters nucleotide synthesis to impact cell proliferation. <i>Molecular Cell</i> , 2015 , 57, 95-107	17.6	164
107	Enhanced efficacy of combined temozolomide and bromodomain inhibitor therapy for gliomas using targeted nanoparticles. <i>Nature Communications</i> , 2018 , 9, 1991	17.4	147
106	Dihydropyrimidine accumulation is required for the epithelial-mesenchymal transition. <i>Cell</i> , 2014 , 158, 1094-1109	56.2	146
105	ISTH interim guidance on recognition and management of coagulopathy in COVID-19: A comment. <i>Journal of Thrombosis and Haemostasis</i> , 2020 , 18, 2060-2063	15.4	143
104	Plk1 self-organization and priming phosphorylation of HsCYK-4 at the spindle midzone regulate the onset of division in human cells. <i>PLoS Biology</i> , 2009 , 7, e1000111	9.7	142
103	Structural and functional analyses of minimal phosphopeptides targeting the polo-box domain of polo-like kinase 1. <i>Nature Structural and Molecular Biology</i> , 2009 , 16, 876-82	17.6	141
102	A nanoparticle-based combination chemotherapy delivery system for enhanced tumor killing by dynamic rewiring of signaling pathways. <i>Science Signaling</i> , 2014 , 7, ra44	8.8	138
101	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	8.8	126
100	Synergistic innate and adaptive immune response to combination immunotherapy with anti-tumor antigen antibodies and extended serum half-life IL-2. <i>Cancer Cell</i> , 2015 , 27, 489-501	24.3	114
99	Coordinated Splicing of Regulatory Detained Introns within Oncogenic Transcripts Creates an Exploitable Vulnerability in Malignant Glioma. <i>Cancer Cell</i> , 2017 , 32, 411-426.e11	24.3	99
98	Acidification of Tumor at Stromal Boundaries Drives Transcriptome Alterations Associated with Aggressive Phenotypes. <i>Cancer Research</i> , 2019 , 79, 1952-1966	10.1	86
97	Serendipitous alkylation of a Plk1 ligand uncovers a new binding channel. <i>Nature Chemical Biology</i> , 2011 , 7, 595-601	11.7	84
96	CADD-03. A VERSATILE AND MODULAR TARGETED NANOPARTICLE PLATFORM FOR DELIVERY OF COMBINATION THERAPIES TO ADULT AND PEDIATRIC CNS TUMORS. <i>Neuro-Oncology</i> , 2018 , 20, vi277-vi277	1	78
95	A reversible gene-targeting strategy identifies synthetic lethal interactions between MK2 and p53 in the DNA damage response in vivo. <i>Cell Reports</i> , 2013 , 5, 868-77	10.6	71
94	The use of in vitro peptide-library screens in the analysis of phosphoserine/threonine-binding domain structure and function. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2004 , 33, 225-44		71
93	Is there a role for tissue plasminogen activator as a novel treatment for refractory COVID-19 associated acute respiratory distress syndrome?. <i>Journal of Trauma and Acute Care Surgery</i> , 2020 , 88, 713-714	3.3	68

92	Combined experimental and computational analysis of DNA damage signaling reveals context-dependent roles for Erk in apoptosis and G1/S arrest after genotoxic stress. <i>Molecular Systems Biology</i> , 2012 , 8, 568	12.2	64
91	ROS and Oxidative Stress Are Elevated in Mitosis during Asynchronous Cell Cycle Progression and Are Exacerbated by Mitotic Arrest. <i>Cell Systems</i> , 2019 , 8, 163-167.e2	10.6	60
90	Identification of high affinity polo-like kinase 1 (Plk1) polo-box domain binding peptides using oxime-based diversification. <i>ACS Chemical Biology</i> , 2012 , 7, 805-10	4.9	59
89	Protein Regulation in Signal Transduction. <i>Cold Spring Harbor Perspectives in Biology</i> , 2016 , 8,	10.2	56
88	A Pleiotropic RNA-Binding Protein Controls Distinct Cell Cycle Checkpoints to Drive Resistance of p53-Defective Tumors to Chemotherapy. <i>Cancer Cell</i> , 2015 , 28, 623-637	24.3	51
87	Phosphorylation of ETS1 by Src family kinases prevents its recognition by the COP1 tumor suppressor. <i>Cancer Cell</i> , 2014 , 26, 222-34	24.3	51
86	MK2 contributes to tumor progression by promoting M2 macrophage polarization and tumor angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E4236-E4244	11.5	48
85	Pan-TAM Tyrosine Kinase Inhibitor BMS-777607 Enhances Anti-PD-1 mAb Efficacy in a Murine Model of Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2019 , 79, 2669-2683	10.1	46
84	Kinetics and Role of Plasma Matrix Metalloproteinase-9 Expression in Acute Lung Injury and the Acute Respiratory Distress Syndrome. <i>Shock</i> , 2015 , 44, 128-36	3.4	41
83	Tumor-Targeted Synergistic Blockade of MAPK and PI3K from a Layer-by-Layer Nanoparticle. <i>Clinical Cancer Research</i> , 2015 , 21, 4410-9	12.9	40
82	Peptoid-Peptide hybrid ligands targeting the polo box domain of polo-like kinase 1. <i>ChemBioChem</i> , 2012 , 13, 1291-6	3.8	35
81	BRD4 prevents the accumulation of R-loops and protects against transcription-replication collision events and DNA damage. <i>Nature Communications</i> , 2020 , 11, 4083	17.4	35
80	Modeling chemotherapy-induced stress to identify rational combination therapies in the DNA damage response pathway. <i>Science Signaling</i> , 2018 , 11,	8.8	34
79	Why geneticists stole cancer research even though cancer is primarily a signaling disease. <i>Science Signaling</i> , 2019 , 12,	8.8	31
78	Is post-transcriptional stabilization, splicing and translation of selective mRNAs a key to the DNA damage response?. <i>Cell Cycle</i> , 2011 , 10, 23-7	4.7	31
77	Identification of a suppressive mechanism for Hedgehog signaling through a novel interaction of Gli with 14-3-3. <i>Journal of Biological Chemistry</i> , 2010 , 285, 4185-4194	5.4	30
76	Fibrinolytic therapy for refractory COVID-19 acute respiratory distress syndrome: Scientific rationale and review. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2020 , 4, 524-531	5.1	27
75	Salvage use of tissue plasminogen activator (tPA) in the setting of acute respiratory distress syndrome (ARDS) due to COVID-19 in the USA: a Markov decision analysis. <i>World Journal of Emergency Surgery</i> , 2020 , 15, 29	9.2	25

74	Comprehensive profiling of the STE20 kinase family defines features essential for selective substrate targeting and signaling output. <i>PLoS Biology</i> , 2019 , 17, e2006540	9.7	23
73	TAZ couples Hippo/Wnt signalling and insulin sensitivity through Irs1 expression. <i>Nature Communications</i> , 2019 , 10, 421	17.4	19
72	Mono-anionic phosphopeptides produced by unexpected histidine alkylation exhibit high Plk1 polo-box domain-binding affinities and enhanced antiproliferative effects in HeLa cells. <i>Biopolymers</i> , 2014 , 102, 444-55	2.2	19
71	Comprehensive substrate specificity profiling of the human Nek kinome reveals unexpected signaling outputs. <i>ELife</i> , 2019 , 8,	8.9	19
70	Criteria for biological reproducibility: what does "n" mean?. <i>Science Signaling</i> , 2015 , 8, fs7	8.8	15
69	VISAGE Reveals a Targetable Mitotic Spindle Vulnerability in Cancer Cells. <i>Cell Systems</i> , 2019 , 9, 74-92.e810.6	10.6	14
68	Structure of the <i>Toxoplasma gondii</i> ROP18 kinase domain reveals a second ligand binding pocket required for acute virulence. <i>Journal of Biological Chemistry</i> , 2013 , 288, 34968-80	5.4	14
67	STudy of Alteplase for Respiratory failure in SARS-Cov2/COVID-19: Study Design of the Phase IIa STARS Trial. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2020 , 4, 984	5.1	14
66	Hierarchical Organization Endows the Kinase Domain with Regulatory Plasticity. <i>Cell Systems</i> , 2018 , 7, 371-383.e4	10.6	12
65	Coagulopathy signature precedes and predicts severity of end-organ heat stroke pathology in a mouse model. <i>Journal of Thrombosis and Haemostasis</i> , 2020 , 18, 1900-1910	15.4	11
64	Substrate-based kinase activity inference identifies MK2 as driver of colitis. <i>Integrative Biology (United Kingdom)</i> , 2019 , 11, 301-314	3.7	11
63	Neighbor-directed histidine N-alkylation: A route to imidazolium-containing phosphopeptide macrocycles. <i>Biopolymers</i> , 2015 , 104, 663-73	2.2	10
62	RNA-Peptide nanoplexes drug DNA damage pathways in high-grade serous ovarian tumors. <i>Bioengineering and Translational Medicine</i> , 2018 , 3, 26-36	14.8	9
61	Formyl Peptide Receptor-1 Blockade Prevents Receptor Regulation by Mitochondrial Danger-Associated Molecular Patterns and Preserves Neutrophil Function After Trauma. <i>Critical Care Medicine</i> , 2020 , 48, e123-e132	1.4	9
60	Peptide-based inhibitors of Plk1 polo-box domain containing mono-anionic phosphothreonine esters and their pivaloyloxymethyl prodrugs. <i>Chemistry and Biology</i> , 2013 , 20, 1255-64		8
59	NEK10 tyrosine phosphorylates p53 and controls its transcriptional activity. <i>Oncogene</i> , 2020 , 39, 5252-5266	3.6	7
58	Protein kinases display minimal interpositional dependence on substrate sequence: potential implications for the evolution of signalling networks. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 2574-83	5.8	7
57	Monitoring and modeling of lymphocytic leukemia cell bioenergetics reveals decreased ATP synthesis during cell division. <i>Nature Communications</i> , 2020 , 11, 4983	17.4	7

56	Redox priming promotes Aurora A activation during mitosis. <i>Science Signaling</i> , 2020 , 13,	8.8	7
55	Monocyte exocytosis of mitochondrial danger-associated molecular patterns in sepsis suppresses neutrophil chemotaxis. <i>Journal of Trauma and Acute Care Surgery</i> , 2021 , 90, 46-53	3.3	7
54	MAPKAP Kinase-2 Drives Expression of Angiogenic Factors by Tumor-Associated Macrophages in a Model of Inflammation-Induced Colon Cancer. <i>Frontiers in Immunology</i> , 2020 , 11, 607891	8.4	7
53	Histidine N(1)-cyclized macrocycles as a new genre of polo-like kinase 1 polo-box domain-binding inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018 , 28, 3202-3205	2.9	6
52	The WW Domain 2005 , 59-72		6
51	Mechanisms Driving Neutrophil-Induced T-cell Immunoparalysis in Ovarian Cancer. <i>Cancer Immunology Research</i> , 2021 , 9, 790-810	12.5	6
50	Kicking Genomic Profiling to the Curb: How Re-wiring the Phosphoproteome Can Explain Treatment Resistance in Glioma. <i>Cancer Cell</i> , 2016 , 29, 435-436	24.3	6
49	Transite: A Computational Motif-Based Analysis Platform That Identifies RNA-Binding Proteins Modulating Changes in Gene Expression. <i>Cell Reports</i> , 2020 , 32, 108064	10.6	5
48	Modern Management of Bleeding, Clotting, and Coagulopathy in Trauma Patients: What Is the Role of Viscoelastic Assays?. <i>Current Trauma Reports</i> , 2020 , 6, 69-81	0.5	5
47	A Multivariate Computational Method to Analyze High-Content RNAi Screening Data. <i>Journal of Biomolecular Screening</i> , 2015 , 20, 985-97		5
46	"Bits" and pieces. <i>Science Signaling</i> , 2006 , 2006, pe28	8.8	5
45	SH3 Domains 2005 , 37-58		5
44	Enhancing chemotherapy response through augmented synthetic lethality by co-targeting nucleotide excision repair and cell-cycle checkpoints. <i>Nature Communications</i> , 2020 , 11, 4124	17.4	5
43	Study of Alteplase for Respiratory Failure in SARS-CoV-2 COVID-19: A Vanguard Multicenter, Rapidly Adaptive, Pragmatic, Randomized Controlled Trial. <i>Chest</i> , 2021 ,	5.3	5
42	Clot activators do not expedite the time to predict massive transfusion in trauma patients analyzed with tissue plasminogen activator thrombelastography. <i>Surgery</i> , 2019 , 166, 408-415	3.6	4
41	The SH2 Domain: A Prototype for Protein Interaction Modules 2005 , 5-36		4
40	The injury response to DNA damage in live tumor cells promotes antitumor immunity. <i>Science Signaling</i> , 2021 , 14, eabc4764	8.8	4
39	Multi-omic analysis in injured humans: Patterns align with outcomes and treatment responses.. <i>Cell Reports Medicine</i> , 2021 , 2, 100478	18	4

38	Circulating Factors in Trauma Plasma Activate Specific Human Immune Cell Subsets. <i>Injury</i> , 2020 , 51, 819-829	2.5	3
37	Tranexamic acid is associated with reduced complement activation in trauma patients with hemorrhagic shock and hyperfibrinolysis on thromboelastography. <i>Blood Coagulation and Fibrinolysis</i> , 2020 , 31, 578-582	1	3
36	Multiplexed Plasma Immune Mediator Signatures Can Differentiate Sepsis From NonInfective SIRS: American Surgical Association 2020 Annual Meeting Paper. <i>Annals of Surgery</i> , 2020 , 272, 604-610	7.8	3
35	Chromo and Chromo Shadow Domains 2005 , 241-255		2
34	PH Domains 2005 , 337-363		2
33	PX Domains 2005 , 389-408		2
32	Computational Analysis of Modular Protein Architectures 2005 , 439-476		2
31	The Eukaryotic Protein Kinase Domain 2005 , 181-209		2
30	Inducing DNA damage through R-loops to kill cancer cells. <i>Molecular and Cellular Oncology</i> , 2020 , 8, 1848-1853	8.23	2
29	MULTicenter STudy of tissue plasminogen activator (alteplase) use in COVID-19 severe respiratory failure (MUST COVID): A Retrospective cohort study.. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2022 , 6, e12669	5.1	2
28	The Structure and Function of the Bromodomain 2005 , 227-239		1
27	PDZ Domains: Intracellular Mediators of Carboxy-Terminal Protein Recognition and Scaffolding 2005 , 257-278		1
26	Nomenclature for Protein Modules and Their Cognate Motifs 2005 , 477-486		1
25	EVH1/WH1 Domains 2005 , 73-101		1
24	Transite: A computational motif-based analysis platform that identifies RNA-binding proteins modulating changes in gene expression		1
23	Are redox changes a critical switch for mitotic progression?. <i>Molecular and Cellular Oncology</i> , 2020 , 7, 1832419	1.2	1
22	Design and synthesis of a new orthogonally protected glutamic acid analog and its use in the preparation of high affinity polo-like kinase 1 polo-box domain - binding peptide macrocycles. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 7843-7854	3.9	1
21	Multi-Pathway DNA Double-Strand Break Repair Reporters Reveal Extensive Cross-Talk Between End-Joining, Single Strand Annealing, and Homologous Recombination		1

- 20 Atlas Drugged. *Cell*, **2019**, 177, 803-805 56.2 0
- 19 A phase II study of onvansertib in combination with abiraterone and prednisone in patients with metastatic castration-resistant prostate cancer (mCRPC).. *Journal of Clinical Oncology*, **2021**, 39, TPS186-TPS186²TPS186⁰
- 18 A phase 2 study of onvansertib in combination with abiraterone and prednisone in patients with metastatic castration-resistant prostate cancer (mCRPC).. *Journal of Clinical Oncology*, **2022**, 40, TPS219-TPS219³TPS219⁰
- 17 An integrated pharmacological, structural, and genetic analysis of extracellular versus intracellular ROS production in neutrophils.. *Journal of Molecular Biology*, **2022**, 167533 6.5 0
- 16 14-3-3 proteins in cancer293-304
- 15 Prologue: An Overview of Protein Modular Domains As Adaptors **2005**, 1-4
- 14 Structure, Specificity, and Mechanism of Protein Lysine Methylation by SET Domain Enzymes **2005**, 211-226
- 13 EH Domains and Their Ligands **2005**, 279-290
- 12 Ubiquitin Binding Modules: The Ubiquitin Network beyond the Proteasome **2005**, 291-319
- 11 The Calponin Homology (CH) Domain **2005**, 321-336
- 10 ENTH and VHS Domains **2005**, 365-387
- 9 Peptide and Protein Repertoires for Global Analysis of Modules **2005**, 409-438
- 8 The GYF Domain **2005**, 103-116
- 7 PTB Domains **2005**, 117-141
- 6 The FHA Domain **2005**, 143-162
- 5 Epilogue: New Levels of Complexity in the Functional Roles of Modular Protein Interaction Domains: Switches and Sockets in the Circuit Diagrams of Cellular Systems Biology **2005**, 487-491
- 4 Intratumoral administration of DNA-damaging chemotherapy-treated tumor cells to enhance therapeutic benefit of systemic immune checkpoint blockade in mouse cancer models.. *Journal of Clinical Oncology*, **2020**, 38, 77-77 2.2
- 3 The NADPH oxidase and PI 3-kinase: the role of p40phox. *FASEB Journal*, **2007**, 21, A604 0.9

- 2 Immunogenic cell stress and injury versus immunogenic cell death: implications for improving cancer treatment with immune checkpoint blockade.. *Molecular and Cellular Oncology*, **2022**, 9, 2039038^{1,2}
- 1 Proteomics of Coagulopathy Following Injury Reveals Limitations of Using Laboratory Assessment to Define Trauma-Induced Coagulopathy to Predict Massive Transfusion. *Annals of Surgery Open*, **2022**, 3, e167 1