

# Benjamin G Neel

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6983869/benjamin-g-neel-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

148  
papers

18,529  
citations

72  
h-index

136  
g-index

158  
ext. papers

20,589  
ext. citations

15.9  
avg. IF

6.45  
L-index

#	Paper	IF	Citations
148	The Shp2g news: SH2 domain-containing tyrosine phosphatases in cell signaling. <i>Trends in Biochemical Sciences</i> , <b>2003</b> , 28, 284-93	10.3	928
147	Specific recruitment of SH-PTP1 to the erythropoietin receptor causes inactivation of JAK2 and termination of proliferative signals. <i>Cell</i> , <b>1995</b> , 80, 729-38	56.2	893
146	STAT3 signalling is required for leptin regulation of energy balance but not reproduction. <i>Nature</i> , <b>2003</b> , 421, 856-9	50.4	813
145	Protein tyrosine phosphatases in signal transduction. <i>Current Opinion in Cell Biology</i> , <b>1997</b> , 9, 193-204	9	709
144	From form to function: signaling by protein tyrosine phosphatases. <i>Cell</i> , <b>1996</b> , 87, 365-8	56.2	501
143	Germline gain-of-function mutations in SOS1 cause Noonan syndrome. <i>Nature Genetics</i> , <b>2007</b> , 39, 70-4	36.3	447
142	Combinatorial control of the specificity of protein tyrosine phosphatases. <i>Current Opinion in Cell Biology</i> , <b>2001</b> , 13, 182-95	9	437
141	Activating mutations of the noonan syndrome-associated SHP2/PTPN11 gene in human solid tumors and adult acute myelogenous leukemia. <i>Cancer Research</i> , <b>2004</b> , 64, 8816-20	10.1	404
140	Mathematical models of protein kinase signal transduction. <i>Molecular Cell</i> , <b>2002</b> , 9, 957-70	17.6	400
139	Restoration of TET2 Function Blocks Aberrant Self-Renewal and Leukemia Progression. <i>Cell</i> , <b>2017</b> , 170, 1079-1095.e20	56.2	364
138	Shp2 regulates SRC family kinase activity and Ras/Erk activation by controlling Csk recruitment. <i>Molecular Cell</i> , <b>2004</b> , 13, 341-55	17.6	348
137	Mouse model of Noonan syndrome reveals cell type- and gene dosage-dependent effects of Ptpn11 mutation. <i>Nature Medicine</i> , <b>2004</b> , 10, 849-57	50.5	335
136	The "Gab" in signal transduction. <i>Trends in Cell Biology</i> , <b>2003</b> , 13, 122-30	18.3	310
135	The SH2-containing protein-tyrosine phosphatase SH-PTP2 is required upstream of MAP kinase for early Xenopus development. <i>Cell</i> , <b>1995</b> , 80, 473-83	56.2	301
134	Critical role for Gab2 in transformation by BCR/ABL. <i>Cancer Cell</i> , <b>2002</b> , 1, 479-92	24.3	292
133	The tyrosine phosphatase Shp2 (PTPN11) in cancer. <i>Cancer and Metastasis Reviews</i> , <b>2008</b> , 27, 179-92	9.6	287
132	Cloning of p97/Gab2, the major SHP2-binding protein in hematopoietic cells, reveals a novel pathway for cytokine-induced gene activation. <i>Molecular Cell</i> , <b>1998</b> , 2, 729-40	17.6	279

131	Essential role for Gab2 in the allergic response. <i>Nature</i> , <b>2001</b> , 412, 186-90	50.4	274
130	Divergent roles of SHP-2 in ERK activation by leptin receptors. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 4747-55	5.4	270
129	Functional Genomic Landscape of Human Breast Cancer Drivers, Vulnerabilities, and Resistance. <i>Cell</i> , <b>2016</b> , 164, 293-309	56.2	259
128	Leptin and insulin act on POMC neurons to promote the browning of white fat. <i>Cell</i> , <b>2015</b> , 160, 88-104	56.2	249
127	Mice mutant for Egfr and Shp2 have defective cardiac semilunar valvulogenesis. <i>Nature Genetics</i> , <b>2000</b> , 24, 296-9	36.3	238
126	Revealing mechanisms for SH2 domain mediated regulation of the protein tyrosine phosphatase SHP-2. <i>Structure</i> , <b>1998</b> , 6, 249-54	5.2	236
125	PTPN11 (Shp2) mutations in LEOPARD syndrome have dominant negative, not activating, effects. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 6785-92	5.4	228
124	New role for Shc in activation of the phosphatidylinositol 3-kinase/Akt pathway. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 7109-20	4.8	228
123	Essential gene profiles in breast, pancreatic, and ovarian cancer cells. <i>Cancer Discovery</i> , <b>2012</b> , 2, 172-189	24.4	221
122	Prognostic, therapeutic, and mechanistic implications of a mouse model of leukemia evoked by Shp2 (PTPN11) mutations. <i>Cancer Cell</i> , <b>2005</b> , 7, 179-91	24.3	220
121	Receptor-specific regulation of phosphatidylinositol 3-kinase activation by the protein tyrosine phosphatase Shp2. <i>Molecular and Cellular Biology</i> , <b>2002</b> , 22, 4062-72	4.8	210
120	Diverse biochemical properties of Shp2 mutants. Implications for disease phenotypes. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 30984-93	5.4	208
119	Regulation of receptor tyrosine kinase signaling by protein tyrosine phosphatase-1B. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 739-44	5.4	202
118	The role of Shp2 (PTPN11) in cancer. <i>Current Opinion in Genetics and Development</i> , <b>2007</b> , 17, 23-30	4.9	200
117	Regulation of early events in integrin signaling by protein tyrosine phosphatase SHP-2. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 3205-15	4.8	197
116	B cell-specific deletion of protein-tyrosine phosphatase Shp1 promotes B-1a cell development and causes systemic autoimmunity. <i>Immunity</i> , <b>2007</b> , 27, 35-48	32.3	193
115	An Shp2/SFK/Ras/Erk signaling pathway controls trophoblast stem cell survival. <i>Developmental Cell</i> , <b>2006</b> , 10, 317-27	10.2	190
114	Intramolecular regulation of protein tyrosine phosphatase SH-PTP1: a new function for Src homology 2 domains. <i>Biochemistry</i> , <b>1994</b> , 33, 15483-93	3.2	190

113	SHP2 and SOCS3 contribute to Tyr-759-dependent attenuation of interleukin-6 signaling through gp130. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 661-71	5.4	180
112	Rapamycin reverses hypertrophic cardiomyopathy in a mouse model of LEOPARD syndrome-associated PTPN11 mutation. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 1026-43	15.9	178
111	Phenotypic heterogeneity and instability of human ovarian tumor-initiating cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 6468-73	11.5	175
110	Identification of major binding proteins and substrates for the SH2-containing protein tyrosine phosphatase SHP-1 in macrophages. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 3838-50	4.8	174
109	A role for the scaffolding adapter GAB2 in breast cancer. <i>Nature Medicine</i> , <b>2006</b> , 12, 114-21	50.5	172
108	Tyrosyl phosphorylation of Shp2 is required for normal ERK activation in response to some, but not all, growth factors. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41677-84	5.4	154
107	Role of phosphatases in lymphocyte activation. <i>Current Opinion in Immunology</i> , <b>1997</b> , 9, 405-20	7.8	150
106	Ptpn11 deletion in a novel progenitor causes metachondromatosis by inducing hedgehog signalling. <i>Nature</i> , <b>2013</b> , 499, 491-5	50.4	145
105	Oncogenic and RASopathy-associated K-RAS mutations relieve membrane-dependent occlusion of the effector-binding site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 6625-30	11.5	142
104	MEK-ERK pathway modulation ameliorates disease phenotypes in a mouse model of Noonan syndrome associated with the Raf1(L613V) mutation. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 1009-25	15.9	142
103	Nonreceptor protein-tyrosine phosphatases in immune cell signaling. <i>Annual Review of Immunology</i> , <b>2007</b> , 25, 473-523	34.7	141
102	Global proteomic assessment of the classical protein-tyrosine phosphatome and "Redoxome". <i>Cell</i> , <b>2011</b> , 146, 826-40	56.2	133
101	SHP2 Inhibition Prevents Adaptive Resistance to MEK Inhibitors in Multiple Cancer Models. <i>Cancer Discovery</i> , <b>2018</b> , 8, 1237-1249	24.4	125
100	Genetic analysis of protein tyrosine phosphatases. <i>Current Opinion in Genetics and Development</i> , <b>1998</b> , 8, 112-26	4.9	125
99	Next-generation sequencing identifies rare variants associated with Noonan syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11473-8	11.5	120
98	Structural determinants of SHP-2 function and specificity in Xenopus mesoderm induction. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 161-77	4.8	115
97	Control of CNS cell-fate decisions by SHP-2 and its dysregulation in Noonan syndrome. <i>Neuron</i> , <b>2007</b> , 54, 245-62	13.9	114
96	The B-cell transmembrane protein CD72 binds to and is an in vivo substrate of the protein tyrosine phosphatase SHP-1. <i>Current Biology</i> , <b>1998</b> , 8, 1009-17	6.3	112

95	Activated mutants of SHP-2 preferentially induce elongation of <i>Xenopus</i> animal caps. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 299-311	4.8	106
94	Structure and function of SH2-domain containing tyrosine phosphatases. <i>Seminars in Cell Biology</i> , <b>1993</b> , 4, 419-32		104
93	SHP1 phosphatase-dependent T cell inhibition by CEACAM1 adhesion molecule isoforms. <i>Immunity</i> , <b>2006</b> , 25, 769-81	32.3	100
92	Mechanism and treatment for learning and memory deficits in mouse models of Noonan syndrome. <i>Nature Neuroscience</i> , <b>2014</b> , 17, 1736-43	25.5	97
91	Leukemogenic Ptpn11 causes fatal myeloproliferative disorder via cell-autonomous effects on multiple stages of hematopoiesis. <i>Blood</i> , <b>2009</b> , 113, 4414-24	2.2	94
90	Vitamin C in Stem Cell Reprogramming and Cancer. <i>Trends in Cell Biology</i> , <b>2018</b> , 28, 698-708	18.3	90
89	Noonan syndrome cardiac defects are caused by PTPN11 acting in endocardium to enhance endocardial-mesenchymal transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 4736-41	11.5	89
88	CD22 attenuates calcium signaling by potentiating plasma membrane calcium-ATPase activity. <i>Nature Immunology</i> , <b>2004</b> , 5, 651-7	19.1	85
87	Phosphatase-dependent and -independent functions of Shp2 in neural crest cells underlie LEOPARD syndrome pathogenesis. <i>Developmental Cell</i> , <b>2010</b> , 18, 750-62	10.2	84
86	Site-selective regulation of platelet-derived growth factor beta receptor tyrosine phosphorylation by T-cell protein tyrosine phosphatase. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 2190-201	4.8	84
85	SHPS-1 is a scaffold for assembling distinct adhesion-regulated multi-protein complexes in macrophages. <i>Current Biology</i> , <b>1999</b> , 9, 927-30	6.3	84
84	The docking protein Gab2 is overexpressed and estrogen regulated in human breast cancer. <i>Oncogene</i> , <b>2002</b> , 21, 5175-81	9.2	81
83	SHP-1 negatively regulates neuronal survival by functioning as a TrkA phosphatase. <i>Journal of Cell Biology</i> , <b>2003</b> , 163, 999-1010	7.3	78
82	Clinical Utility of Patient-Derived Xenografts to Determine Biomarkers of Prognosis and Map Resistance Pathways in EGFR-Mutant Lung Adenocarcinoma. <i>Journal of Clinical Oncology</i> , <b>2015</b> , 33, 2472-80	22.3	76
81	The Docking Molecule Gab2 Is Induced by Lymphocyte Activation and Is Involved in Signaling by Interleukin-2 and Interleukin-15 but Not Other Common $\gamma$ -Chain-using Cytokines. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 26959-26966	5.4	74
80	A Global Analysis of the Receptor Tyrosine Kinase-Protein Phosphatase Interactome. <i>Molecular Cell</i> , <b>2017</b> , 65, 347-360	17.6	73
79	Scaffolding adapter Grb2-associated binder 2 requires Syk to transmit signals from FcepsilonRI. <i>Journal of Immunology</i> , <b>2006</b> , 176, 2421-9	5.3	73
78	Essential role for Ptpn11 in survival of hematopoietic stem and progenitor cells. <i>Blood</i> , <b>2011</b> , 117, 4253-61	6.1	72

77	SHP2 tyrosine phosphatase converts parafibromin/Cdc73 from a tumor suppressor to an oncogenic driver. <i>Molecular Cell</i> , <b>2011</b> , 43, 45-56	17.6	71
76	The tyrosine phosphatase SHP-1 influences thymocyte selection by setting TCR signaling thresholds. <i>International Immunology</i> , <b>1999</b> , 11, 1999-2014	4.9	70
75	Characterization of two SHP-2-associated binding proteins and potential substrates in hematopoietic cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 16421-30	5.4	69
74	The scaffolding adapter Gab2, via Shp-2, regulates kit-evoked mast cell proliferation by activating the Rac/JNK pathway. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 28615-26	5.4	68
73	Substrate specificity of protein tyrosine phosphatases 1B, RPTP $\beta$ , SHP-1, and SHP-2. <i>Biochemistry</i> , <b>2011</b> , 50, 2339-56	3.2	67
72	Deletion of Ptpn11 (Shp2) in cardiomyocytes causes dilated cardiomyopathy via effects on the extracellular signal-regulated kinase/mitogen-activated protein kinase and RhoA signaling pathways. <i>Circulation</i> , <b>2008</b> , 117, 1423-35	16.7	66
71	The RhoGEF GEF-H1 is required for oncogenic RAS signaling via KSR-1. <i>Cancer Cell</i> , <b>2014</b> , 25, 181-95	24.3	64
70	Protein-tyrosine phosphatase SHP-1 is dispensable for Fc $\gamma$ RIIB-mediated inhibition of B cell antigen receptor activation. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 20038-43	5.4	62
69	Cutting edge: gab2 mediates an inhibitory phosphatidylinositol 3-kinase pathway in T cell antigen receptor signaling. <i>Journal of Immunology</i> , <b>2000</b> , 165, 4158-63	5.3	62
68	Regulation of B cell signal transduction by SH2-containing protein-tyrosine phosphatases. <i>Seminars in Immunology</i> , <b>1998</b> , 10, 329-47	10.7	60
67	Megakaryocyte-specific deletion of the protein-tyrosine phosphatases Shp1 and Shp2 causes abnormal megakaryocyte development, platelet production, and function. <i>Blood</i> , <b>2013</b> , 121, 4205-20	2.2	58
66	PTP1B controls non-mitochondrial oxygen consumption by regulating RNF213 to promote tumour survival during hypoxia. <i>Nature Cell Biology</i> , <b>2016</b> , 18, 803-813	23.4	55
65	Hepatic oxidative stress promotes insulin-STAT-5 signaling and obesity by inactivating protein tyrosine phosphatase N2. <i>Cell Metabolism</i> , <b>2014</b> , 20, 85-102	24.6	55
64	SHP2 inhibition diminishes KRASG12C cycling and promotes tumor microenvironment remodeling. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	53
63	Affinity purification mass spectrometry analysis of PD-1 uncovers SAP as a new checkpoint inhibitor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E468-E477	11.5	51
62	Activating Mutations Affecting the Dbl Homology Domain of SOS2 Cause Noonan Syndrome. <i>Human Mutation</i> , <b>2015</b> , 36, 1080-7	4.7	51
61	A germline gain-of-function mutation in Ptpn11 (Shp-2) phosphatase induces myeloproliferative disease by aberrant activation of hematopoietic stem cells. <i>Blood</i> , <b>2010</b> , 116, 3611-21	2.2	51
60	Sticking It to Cancer with Molecular Glue for SHP2. <i>Cancer Cell</i> , <b>2016</b> , 30, 194-196	24.3	46

59	Impaired SHP2-mediated extracellular signal-regulated kinase activation contributes to gefitinib sensitivity of lung cancer cells with epidermal growth factor receptor-activating mutations. <i>Cancer Research</i> , <b>2010</b> , 70, 3843-50	10.1	45
58	SHP-2 activates signaling of the nuclear factor of activated T cells to promote skeletal muscle growth. <i>Journal of Cell Biology</i> , <b>2006</b> , 175, 87-97	7.3	44
57	Inhibition of IFN-alpha signaling by a PKC- and protein tyrosine phosphatase SHP-2-dependent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 10267-72	11.5	40
56	Resveratrol inhibits angiotensin II- and epidermal growth factor-mediated Akt activation: role of Gab1 and Shp2. <i>Molecular Pharmacology</i> , <b>2005</b> , 68, 41-8	4.3	40
55	Structural insights into Noonan/LEOPARD syndrome-related mutants of protein-tyrosine phosphatase SHP2 (PTPN11). <i>BMC Structural Biology</i> , <b>2014</b> , 14, 10	2.7	39
54	Altered glucose homeostasis in mice with liver-specific deletion of Src homology phosphatase 2. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 39750-8	5.4	38
53	Phosphorylation of protein-tyrosine phosphatase PTP-1B on identical sites suggests activation of a common signaling pathway during mitosis and stress response in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 2957-62	5.4	38
52	Genetic and cellular mechanisms of oncogenesis. <i>Current Opinion in Genetics and Development</i> , <b>2007</b> , 17, 1-2	4.9	38
51	Receptor-type protein-tyrosine phosphatase mu is expressed in specific vascular endothelial beds in vivo. <i>Experimental Cell Research</i> , <b>1999</b> , 248, 329-38	4.2	36
50	Interrogation of Functional Cell-Surface Markers Identifies CD151 Dependency in High-Grade Serous Ovarian Cancer. <i>Cell Reports</i> , <b>2017</b> , 18, 2343-2358	10.6	33
49	SOS1 mutations are rare in human malignancies: implications for Noonan Syndrome patients. <i>Genes Chromosomes and Cancer</i> , <b>2008</b> , 47, 253-9	5	33
48	Off-target inhibition by active site-targeting SHP2 inhibitors. <i>FEBS Open Bio</i> , <b>2018</b> , 8, 1405-1411	2.7	32
47	Methods to monitor classical protein-tyrosine phosphatase oxidation. <i>FEBS Journal</i> , <b>2013</b> , 280, 459-75	5.7	30
46	Hepatocyte-specific Ptpn6 deletion protects from obesity-linked hepatic insulin resistance. <i>Diabetes</i> , <b>2012</b> , 61, 1949-58	0.9	30
45	Tyrosine phosphatase SHP-2 is a mediator of activity-dependent neuronal excitotoxicity. <i>EMBO Journal</i> , <b>2005</b> , 24, 305-14	13	30
44	Assay to visualize specific protein oxidation reveals spatio-temporal regulation of SHP2. <i>Nature Communications</i> , <b>2017</b> , 8, 466	17.4	29
43	The signaling adaptor GAB1 regulates cell polarity by acting as a PAR protein scaffold. <i>Molecular Cell</i> , <b>2012</b> , 47, 469-83	17.6	28
42	A ERK/RSK-mediated negative feedback loop regulates M-CSF-evoked PI3K/AKT activation in macrophages. <i>FASEB Journal</i> , <b>2018</b> , 32, 875-887	0.9	26

41	Gain-of-function mutations of Ptpn11 (Shp2) cause aberrant mitosis and increase susceptibility to DNA damage-induced malignancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 984-9	11.5	25
40	Increased BRAF heterodimerization is the common pathogenic mechanism for noonan syndrome-associated RAF1 mutants. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 3872-90	4.8	25
39	Antagonism between binding site affinity and conformational dynamics tunes alternative cis-interactions within Shp2. <i>Nature Communications</i> , <b>2013</b> , 4, 2037	17.4	23
38	SHP2 regulates skeletal cell fate by modifying SOX9 expression and transcriptional activity. <i>Bone Research</i> , <b>2018</b> , 6, 12	13.3	22
37	Critical Role for GAB2 in Neuroblastoma Pathogenesis through the Promotion of SHP2/MYCN Cooperation. <i>Cell Reports</i> , <b>2017</b> , 18, 2932-2942	10.6	21
36	Integrative genetic analysis of mouse and human AML identifies cooperating disease alleles. <i>Journal of Experimental Medicine</i> , <b>2016</b> , 213, 25-34	16.6	20
35	A Genomically Characterized Collection of High-Grade Serous Ovarian Cancer Xenografts for Preclinical Testing. <i>American Journal of Pathology</i> , <b>2018</b> , 188, 1120-1131	5.8	18
34	Genetically Defined Syngeneic Mouse Models of Ovarian Cancer as Tools for the Discovery of Combination Immunotherapy. <i>Cancer Discovery</i> , <b>2021</b> , 11, 384-407	24.4	18
33	Distinct fibroblast functional states drive clinical outcomes in ovarian cancer and are regulated by TCF21. <i>Journal of Experimental Medicine</i> , <b>2020</b> , 217,	16.6	17
32	Distinct GAB2 signaling pathways are essential for myeloid and lymphoid transformation and leukemogenesis by BCR-ABL1. <i>Blood</i> , <b>2016</b> , 127, 1803-13	2.2	17
31	Cellular interplay via cytokine hierarchy causes pathological cardiac hypertrophy in RAF1-mutant Noonan syndrome. <i>Nature Communications</i> , <b>2017</b> , 8, 15518	17.4	15
30	The Noonan Syndrome-linked Raf1L613V mutation drives increased glial number in the mouse cortex and enhanced learning. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008108	6	15
29	Gain-of-function mutations in the gene encoding the tyrosine phosphatase SHP2 induce hydrocephalus in a catalytically dependent manner. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	15
28	Genetically Defined, Syngeneic Organoid Platform for Developing Combination Therapies for Ovarian Cancer. <i>Cancer Discovery</i> , <b>2021</b> , 11, 362-383	24.4	15
27	Deficiency in Protein Tyrosine Phosphatase PTP1B Shortens Lifespan and Leads to Development of Acute Leukemia. <i>Cancer Research</i> , <b>2018</b> , 78, 75-87	10.1	15
26	The Protein Tyrosine Phosphatase Receptor Delta Regulates Developmental Neurogenesis. <i>Cell Reports</i> , <b>2020</b> , 30, 215-228.e5	10.6	14
25	Hyperactive CDK2 Activity in Basal-like Breast Cancer Imposes a Genome Integrity Liability that Can Be Exploited by Targeting DNA Polymerase $\alpha$ <i>Molecular Cell</i> , <b>2020</b> , 80, 682-698.e7	17.6	13
24	SH2 Domain-Containing Protein-Tyrosine Phosphatases <b>2010</b> , 771-809		13



23	N-Glycoproteomics of Patient-Derived Xenografts: A Strategy to Discover Tumor-Associated Proteins in High-Grade Serous Ovarian Cancer. <i>Cell Systems</i> , <b>2019</b> , 8, 345-351.e4	10.6	11
22	Piecing Together a Broken Tumor Suppressor Phosphatase for Cancer Therapy. <i>Cell</i> , <b>2020</b> , 181, 514-517	56.2	11
21	Identification of a domain in the beta subunit of the type I interferon (IFN) receptor that exhibits a negative regulatory effect in the growth inhibitory action of type I IFNs. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 5577-81	5.4	10
20	Pathologic Oxidation of PTPN12 Underlies ABL1 Phosphorylation in Hereditary Leiomyomatosis and Renal Cell Carcinoma. <i>Cancer Research</i> , <b>2018</b> , 78, 6539-6548	10.1	9
19	Quantitative phosphoproteomic analysis reveals involvement of PD-1 in multiple T cell functions. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 18036-18050	5.4	8
18	Biochemical Classification of Disease-associated Mutants of RAS-like Protein Expressed in Many Tissues (RIT1). <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 15641-52	5.4	8
17	Leukemogenic Ptpn11 allele causes defective erythropoiesis in mice. <i>PLoS ONE</i> , <b>2014</b> , 9, e109682	3.7	7
16	SHP2 drives inflammation-triggered insulin resistance by reshaping tissue macrophage populations. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	7
15	Role of PTPN11 (SHP2) in Cancer		7
14	SH2-Domain-Containing Protein Tyrosine Phosphatases		6
13	Combined Inhibition of SHP2 and CXCR1/2 Promotes Anti-Tumor T Cell Response in NSCLC. <i>Cancer Discovery</i> , <b>2021</b> ,	24.4	6
12	Tyrosyl phosphorylation toggles a Runx1 switch. <i>Genes and Development</i> , <b>2012</b> , 26, 1520-6	12.6	4
11	From an orphan disease to a generalized molecular mechanism: PTPN11 loss-of-function mutations in the pathogenesis of metachondromatosis. <i>Rare Diseases (Austin, Tex)</i> , <b>2013</b> , 1, e26657		4
10	Computational modeling of ovarian cancer dynamics suggests optimal strategies for therapy and screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
9	Ontogeny and Vulnerabilities of Drug-Tolerant Persisters in HER2+ Breast Cancer.. <i>Cancer Discovery</i> , <b>2021</b> ,	24.4	4
8	Activated Thiol Sepharose-based proteomic approach to quantify reversible protein oxidation. <i>FASEB Journal</i> , <b>2019</b> , 33, 12336-12347	0.9	2
7	Signal transfer in human protein tyrosine phosphatase PTP1B from allosteric inhibitor P00058. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 1-10	3.6	0
6	U.S. Biomedical Research Needs More Immigrant Scientists, Not Fewer!. <i>Cancer Cell</i> , <b>2020</b> , 38, 308	24.3	0

- 5 New pROspects for PTP1B: micro-managing oncogene-induced senescence. *Molecular Cell*, **2014**, 55, 651-3 17.6
- 4 Hidesaburo Hanafusa 1929-2009. *Cell*, **2009**, 137, 197-199 56.2
- 3 Hidesaburo Hanafusa 1929-2009. *Molecular Cell*, **2009**, 34, 141-143 17.6
- 2 Raymond L. Erikson (1936-2020). *Cell*, **2020**, 181, 961-963 56.2
- 1 Redox Regulation of PTPs in Metabolism: Focus on Assays **2013**, 1-26