

# Robert Rottapel

## List of Publications by Citations

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

102 papers	6,200 citations	42 h-index	77 g-index
112 ext. papers	7,031 ext. citations	10.7 avg, IF	5.14 L-index

#	Paper	IF	Citations
102	Regulation of NF-kappaB signaling by Pin1-dependent prolyl isomerization and ubiquitin-mediated proteolysis of p65/RelA. <i>Molecular Cell</i> , <b>2003</b> , 12, 1413-26	17.6	540
101	Binding of phosphatidylinositol-3-OH kinase to CD28 is required for T-cell signalling. <i>Nature</i> , <b>1994</b> , 369, 327-9	50.4	327
100	The MAGUK family protein CARD11 is essential for lymphocyte activation. <i>Immunity</i> , <b>2003</b> , 18, 763-75	32.3	284
99	W mutant mice with mild or severe developmental defects contain distinct point mutations in the kinase domain of the c-kit receptor. <i>Genes and Development</i> , <b>1990</b> , 4, 390-400	12.6	264
98	Essential gene profiles in breast, pancreatic, and ovarian cancer cells. <i>Cancer Discovery</i> , <b>2012</b> , 2, 172-189	24.4	221
97	Measuring error rates in genomic perturbation screens: gold standards for human functional genomics. <i>Molecular Systems Biology</i> , <b>2014</b> , 10, 733	12.2	203
96	SHP-1 binds and negatively modulates the c-Kit receptor by interaction with tyrosine 569 in the c-Kit juxtamembrane domain. <i>Molecular and Cellular Biology</i> , <b>1998</b> , 18, 2089-99	4.8	181
95	A point mutation in CD28 distinguishes proliferative signals from survival signals. <i>Nature Immunology</i> , <b>2001</b> , 2, 325-32	19.1	177
94	Socs1 binds to multiple signalling proteins and suppresses steel factor-dependent proliferation. <i>EMBO Journal</i> , <b>1999</b> , 18, 904-15	13	176
93	Structural basis and sequence rules for substrate recognition by Tankyrase explain the basis for cherubism disease. <i>Cell</i> , <b>2011</b> , 147, 1340-54	56.2	169
92	Loss of Tankyrase-mediated destruction of 3BP2 is the underlying pathogenic mechanism of cherubism. <i>Cell</i> , <b>2011</b> , 147, 1324-39	56.2	140
91	Suppressor of cytokine signaling-1 inhibits VAV function through protein degradation. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 14005-8	5.4	139
90	Autoinhibition of the kit receptor tyrosine kinase by the cytosolic juxtamembrane region. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 3067-78	4.8	133
89	Putting out the fire: coordinated suppression of the innate and adaptive immune systems by SOCS1 and SOCS3 proteins. <i>Immunological Reviews</i> , <b>2008</b> , 224, 265-83	11.3	132
88	CD28-dependent activation of protein kinase B/Akt blocks Fas-mediated apoptosis by preventing death-inducing signaling complex assembly. <i>Journal of Experimental Medicine</i> , <b>2002</b> , 196, 335-48	16.6	116
87	CD28 provides T-cell costimulation and enhances PI3K activity at the immune synapse independently of its capacity to interact with the p85/p110 heterodimer. <i>Blood</i> , <b>2008</b> , 111, 1464-71	2.2	114
86	The tumor suppressor activity of SOCS-1. <i>Oncogene</i> , <b>2002</b> , 21, 4351-62	9.2	111

85	Survivin loss in thymocytes triggers p53-mediated growth arrest and p53-independent cell death. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 199, 399-410	16.6	108
84	Regulation of the immune system by SOCS family adaptor proteins. <i>Seminars in Immunology</i> , <b>2004</b> , 16, 351-65	10.7	102
83	Adaptor function for the Syk kinases-interacting protein 3BP2 in IL-2 gene activation. <i>Immunity</i> , <b>1998</b> , 9, 595-605	32.3	94
82	Flt3 ligand supports the differentiation of early B cell progenitors in the presence of interleukin-11 and interleukin-7. <i>European Journal of Immunology</i> , <b>1996</b> , 26, 1504-10	6.1	91
81	Expression and signal transduction of the FLT3 tyrosine kinase receptor. <i>Acta Haematologica</i> , <b>1996</b> , 95, 218-23	2.7	82
80	The molecular adapter Carma1 controls entry of I $\kappa$ B kinase into the central immune synapse. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 200, 1167-77	16.6	77
79	Alpha4beta1 integrin mediates the recruitment of immature dendritic cells across the blood-brain barrier during experimental autoimmune encephalomyelitis. <i>Journal of Immunology</i> , <b>2010</b> , 184, 7196-206	5.3	74
78	Lfc and Tctex-1 regulate the genesis of neurons from cortical precursor cells. <i>Nature Neuroscience</i> , <b>2009</b> , 12, 735-44	25.5	71
77	A negative genetic interaction map in isogenic cancer cell lines reveals cancer cell vulnerabilities. <i>Molecular Systems Biology</i> , <b>2013</b> , 9, 696	12.2	69
76	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
75	Mechanistic insight into the microtubule and actin cytoskeleton coupling through dynein-dependent RhoGEF inhibition. <i>Molecular Cell</i> , <b>2012</b> , 45, 642-55	17.6	64
74	A novel SHP-1/Grb2-dependent mechanism of negative regulation of cytokine-receptor signaling: contribution of SHP-1 C-terminal tyrosines in cytokine signaling. <i>Blood</i> , <b>2004</b> , 103, 1398-407	2.2	63
73	Signal transduction by several KIT juxtamembrane domain mutations. <i>Oncogene</i> , <b>2003</b> , 22, 4710-22	9.2	61
72	Grb2 forms an inducible protein complex with CD28 through a Src homology 3 domain-proline interaction. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 21194-202	5.4	59
71	3BP2-deficient mice are osteoporotic with impaired osteoblast and osteoclast functions. <i>Journal of Clinical Investigation</i> , <b>2011</b> , 121, 3244-57	15.9	59
70	Modulation of Rho guanine exchange factor Lfc activity by protein kinase A-mediated phosphorylation. <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 5963-73	4.8	56
69	Cell surface profiling using high-throughput flow cytometry: a platform for biomarker discovery and analysis of cellular heterogeneity. <i>PLoS ONE</i> , <b>2014</b> , 9, e105602	3.7	54
68	Suppressor of cytokine signaling 1 regulates IL-15 receptor signaling in CD8 <sup>+</sup> CD44 <sup>high</sup> memory T lymphocytes. <i>Journal of Immunology</i> , <b>2003</b> , 171, 2435-45	5.3	54

67	The c-fms gene complements the mitogenic defect in mast cells derived from mutant W mice but not mi (microphthalmia) mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 2341-5	11.5	54
66	Regulation of cytokine receptor signaling by SOCS1. <i>Immunological Reviews</i> , <b>2003</b> , 192, 196-211	11.3	52
65	CD28 regulates the translation of Bcl-xL via the phosphatidylinositol 3-kinase/mammalian target of rapamycin pathway. <i>Journal of Immunology</i> , <b>2005</b> , 174, 180-94	5.3	52
64	Reciprocal stabilization of ABL and TAZ regulates osteoblastogenesis through transcription factor RUNX2. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 4482-4496	15.9	49
63	Transcriptional Regulation of miR-31 by Oncogenic KRAS Mediates Metastatic Phenotypes by Repressing RASA1. <i>Molecular Cancer Research</i> , <b>2016</b> , 14, 267-77	6.6	48
62	SH3BP2 cherubism mutation potentiates TNF- $\alpha$ -induced osteoclastogenesis via NFATc1 and TNF- $\alpha$ -mediated inflammatory bone loss. <i>Journal of Bone and Mineral Research</i> , <b>2014</b> , 29, 2618-35	6.3	45
61	The Rho GTP exchange factor Lfc promotes spindle assembly in early mitosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 9529-34	11.5	45
60	Mechanistic insight into GPCR-mediated activation of the microtubule-associated RhoA exchange factor GEF-H1. <i>Nature Communications</i> , <b>2014</b> , 5, 4857	17.4	42
59	Expression of Flt3 tyrosine kinase receptor gene in mouse hematopoietic and nervous tissues. <i>Differentiation</i> , <b>1995</b> , 58, 351-9	3.5	40
58	Suppressor of cytokine signaling 1 stringently regulates distinct functions of IL-7 and IL-15 in vivo during T lymphocyte development and homeostasis. <i>Journal of Immunology</i> , <b>2006</b> , 176, 4029-41	5.3	39
57	Phosphatidylinositol 3-kinase and Ca <sup>2+</sup> influx dependence for ligand-stimulated internalization of the c-Kit receptor. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 30519-25	5.4	38
56	Suppressor of cytokine signaling 1 attenuates IL-15 receptor signaling in CD8 <sup>+</sup> thymocytes. <i>Blood</i> , <b>2003</b> , 102, 4115-22	2.2	38
55	The 3BP2 adapter protein is required for optimal B-cell activation and thymus-independent type 2 humoral response. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 3109-22	4.8	37
54	Suppressor of cytokine signaling 1 interacts with the macrophage colony-stimulating factor receptor and negatively regulates its proliferation signal. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 22133-9	5.4	37
53	Ckap2 regulates aneuploidy, cell cycling, and cell death in a p53-dependent manner. <i>Cancer Research</i> , <b>2005</b> , 65, 6685-91	10.1	36
52	Intra-articular fms-like tyrosine kinase 3 ligand expression is a driving force in induction and progression of arthritis. <i>PLoS ONE</i> , <b>2008</b> , 3, e3633	3.7	35
51	Overexpression of suppressor of cytokine signaling-1 impairs pre-T-cell receptor-induced proliferation but not differentiation of immature thymocytes. <i>Blood</i> , <b>2001</b> , 97, 2269-77	2.2	35
50	CaPSID: a bioinformatics platform for computational pathogen sequence identification in human genomes and transcriptomes. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 206	3.6	34

49	Real-time NMR study of three small GTPases reveals that fluorescent 2 <sup>5</sup> 3 <sup>9</sup> -O-(N-methylanthraniloyl)-tagged nucleotides alter hydrolysis and exchange kinetics. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 5132-6	5.4	34
48	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
47	GEF-H1 is necessary for neutrophil shear stress-induced migration during inflammation. <i>Journal of Cell Biology</i> , <b>2016</b> , 215, 107-119	7.3	32
46	TACC3-TSC2 maintains nuclear envelope structure and controls cell division. <i>Cell Cycle</i> , <b>2010</b> , 9, 1143-55	4.7	30
45	Phosphatidylinositol-3Kinase is not required for mitogenesis or internalization of the Flt3/Flk2 receptor tyrosine kinase. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 20075-81	5.4	29
44	MARK3-mediated phosphorylation of ARHGEF2 couples microtubules to the actin cytoskeleton to establish cell polarity. <i>Science Signaling</i> , <b>2017</b> , 10,	8.8	28
43	Probing the GTPase cycle with real-time NMR: GAP and GEF activities in cell extracts. <i>Methods</i> , <b>2012</b> , 57, 473-85	4.6	28
42	The mouse W/c-kit locus. A mammalian gene that controls the development of three distinct cell lineages. <i>Annals of the New York Academy of Sciences</i> , <b>1990</b> , 599, 58-65	6.5	28
41	3BP2 adapter protein is required for receptor activator of NF $\kappa$ B ligand (RANKL)-induced osteoclast differentiation of RAW264.7 cells. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 20952-63	5.4	27
40	shRNA kinome screen identifies TBK1 as a therapeutic target for HER2+ breast cancer. <i>Cancer Research</i> , <b>2014</b> , 74, 2119-30	10.1	26
39	Loss of SH3 domain-binding protein 2 function suppresses bone destruction in tumor necrosis factor-driven and collagen-induced arthritis in mice. <i>Arthritis and Rheumatology</i> , <b>2015</b> , 67, 656-67	9.5	23
38	A positive regulatory role for suppressor of cytokine signaling 1 in IFN-gamma-induced MHC class II expression in fibroblasts. <i>Journal of Immunology</i> , <b>2002</b> , 169, 5010-20	5.3	23
37	The adapter 3BP2: how it plugs into leukocyte signaling. <i>Advances in Experimental Medicine and Biology</i> , <b>2006</b> , 584, 107-14	3.6	22
36	Immune functions in mice lacking Clnk, an SLP-76-related adaptor expressed in a subset of immune cells. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 6067-75	4.8	22
35	Interaction with the phosphotyrosine binding domain/phosphotyrosine interacting domain of SHC is required for the transforming activity of the FLT4/VEGFR3 receptor tyrosine kinase. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 12956-63	5.4	22
34	Impaired V(D)J recombination and increased apoptosis among B cell precursors in the bone marrow of c-Abl-deficient mice. <i>International Immunology</i> , <b>2007</b> , 19, 267-76	4.9	21
33	RANKL coordinates multiple osteoclastogenic pathways by regulating expression of ubiquitin ligase RNF146. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 1303-1315	15.9	19
32	Insights into the binding of PARP inhibitors to the catalytic domain of human tankyrase-2. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 2740-53		18

31	Cherubism allele heterozygosity amplifies microbe-induced inflammatory responses in murine macrophages. <i>Journal of Clinical Investigation</i> , <b>2015</b> , 125, 1396-400	15.9	18
30	Modulation of IL-7 thresholds by SOCS proteins in developing B lineage cells. <i>Journal of Immunology</i> , <b>2011</b> , 187, 3499-510	5.3	17
29	Ubiquitin ligase RNF146 coordinates bone dynamics and energy metabolism. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 2612-2625	15.9	16
28	The 3BP2 adapter protein is required for chemoattractant-mediated neutrophil activation. <i>Journal of Immunology</i> , <b>2012</b> , 189, 2138-50	5.3	15
27	Flow cytometric analysis of cytokine receptor signal transduction. <i>Journal of Immunological Methods</i> , <b>2003</b> , 278, 221-34	2.5	15
26	An oncogenic KRAS transcription program activates the RHOGEF ARHGEF2 to mediate transformed phenotypes in pancreatic cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 4484-4500	3.3	15
25	Anticardiolipin and other antiphospholipid antibodies in critically ill COVID-19 positive and negative patients. <i>Annals of the Rheumatic Diseases</i> , <b>2021</b> , 80, 1236-1240	2.4	15
24	Spatiotemporal dynamics of GEF-H1 activation controlled by microtubule- and Src-mediated pathways. <i>Journal of Cell Biology</i> , <b>2019</b> , 218, 3077-3097	7.3	14
23	Gain-of-function variants in SYK cause immune dysregulation and systemic inflammation in humans and mice. <i>Nature Genetics</i> , <b>2021</b> , 53, 500-510	36.3	11
22	Regulation of cytokine-driven functional differentiation of CD8 T cells by suppressor of cytokine signaling 1 controls autoimmunity and preserves their proliferative capacity toward foreign antigens. <i>Journal of Immunology</i> , <b>2010</b> , 185, 357-66	5.3	10
21	Putting the brakes on arthritis: can suppressors of cytokine signaling (SOCS) suppress rheumatoid arthritis?. <i>Journal of Clinical Investigation</i> , <b>2001</b> , 108, 1745-1747	15.9	10
20	Chromosomal Instability and mTORC1 Activation through PTEN Loss Contribute to Proteotoxic Stress in Ovarian Carcinoma. <i>Cancer Research</i> , <b>2019</b> , 79, 5536-5549	10.1	9
19	Homeodomain-interacting protein kinase (HIPK)-1 is required for splenic B cell homeostasis and optimal T-independent type 2 humoral response. <i>PLoS ONE</i> , <b>2012</b> , 7, e35533	3.7	9
18	Targeting the centriolar replication factor STIL synergizes with DNA damaging agents for treatment of ovarian cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 27380-27392	3.3	9
17	Nucleotide Binding, Evolutionary Insights, and Interaction Partners of the Pseudokinase Unc-51-like Kinase 4. <i>Structure</i> , <b>2020</b> , 28, 1184-1196.e6	5.2	9
16	Suppressor of cytokine signaling 1 regulates an endogenous inhibitor of a mast cell protease. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41871-80	5.4	8
15	Haploinsufficiency of RREB1 causes a Noonan-like RASopathy via epigenetic reprogramming of RAS-MAPK pathway genes. <i>Nature Communications</i> , <b>2020</b> , 11, 4673	17.4	8
14	Preexisting autoimmune disease and immune-related adverse events associated with anti-PD-1 cancer immunotherapy: a national case series from the Canadian Research Group of Rheumatology in Immuno-Oncology. <i>Cancer Immunology, Immunotherapy</i> , <b>2021</b> , 70, 2197-2207	7.4	7

13	Go with the flow: GEF-H1 mediated shear stress mechanotransduction in neutrophils. <i>Small GTPases</i> , <b>2020</b> , 11, 23-31	2.7	6
12	Alveolar Bone Protection by Targeting the SH3BP2-SYK Axis in Osteoclasts. <i>Journal of Bone and Mineral Research</i> , <b>2020</b> , 35, 382-395	6.3	5
11	N6-methyladenosine reader YTHDF1 promotes ARHGEF2 translation and RhoA signaling in colorectal cancer.. <i>Gastroenterology</i> , <b>2021</b> ,	13.3	4
10	The LUBAC participates in lysophosphatidic acid-induced NF- $\kappa$ B activation. <i>Cellular Immunology</i> , <b>2020</b> , 353, 104133	4.4	3
9	Low junctional adhesion molecule-A expression is associated with an epithelial to mesenchymal transition and poorer outcomes in high-grade serous carcinoma of uterine adnexa. <i>Modern Pathology</i> , <b>2020</b> , 33, 2361-2377	9.8	3
8	Bone dynamics and inflammation: lessons from rare diseases. <i>Immunological Medicine</i> , <b>2020</b> , 43, 61-64	3.7	3
7	Multiplexed Real-Time NMR GTPase Assay for Simultaneous Monitoring of Multiple Guanine Nucleotide Exchange Factor Activities from Human Cancer Cells and Organoids. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4473-4476	16.4	3
6	Co-dependency between KRAS addiction and ARHGEF2 promotes an adaptive escape from MAPK pathway inhibition. <i>Small GTPases</i> , <b>2019</b> , 10, 441-448	2.7	3
5	Timed Regulation of 3BP2 Induction Is Critical for Sustaining CD8 T Cell Expansion and Differentiation. <i>Cell Reports</i> , <b>2018</b> , 24, 1123-1135	10.6	2
4	Inhibition of relaxin autocrine signaling confers therapeutic vulnerability in ovarian cancer. <i>Journal of Clinical Investigation</i> , <b>2021</b> , 131,	15.9	2
3	Endonuclease increases efficiency of osteoblast isolation from murine calvariae. <i>Scientific Reports</i> , <b>2021</b> , 11, 8502	4.9	1
2	GEF-H1 Is Required for Colchicine Inhibition of Neutrophil Rolling and Recruitment in Mouse Models of Gout. <i>Journal of Immunology</i> , <b>2020</b> , 205, 3300-3310	5.3	0
1	RUNX2 Phosphorylation by Tyrosine Kinase ABL Promotes Breast Cancer Invasion. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 665273	5.3	0