Michael G Roth

List of Publications by Year
in descending order

99 papers	12,314 citations	34016 52 h-index	35952 97 g-index
102 all docs	102 docs citations	102 times ranked	15838 citing authors

#	Article	IF	Citations
1	Loss of Aurora Kinase Signaling Allows Lung Cancer Cells to Adopt Endoreplication and Form Polyploid Giant Cancer Cells That Resist Antimitotic Drugs. Cancer Research, 2021, 81, 400-413.	0.4	29
2	Chemistry-First Approach for Nomination of Personalized Treatment in Lung Cancer. Cell, 2018, 173, 864-878.e29.	13.5	102
3	SMARCA4-inactivating mutations increase sensitivity to Aurora kinase A inhibitor VX-680 in non-small cell lung cancers. Nature Communications, 2017, 8, 14098.	5.8	80
4	Dapagliflozin suppresses glucagon signaling in rodent models of diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6611-6616.	3.3	26
5	XPO1-dependent nuclear export is a druggable vulnerability in KRAS-mutant lung cancer. Nature, 2016, 538, 114-117.	13.7	162
6	Glucagon therapeutics: Dawn of a new era for diabetes care. Diabetes/Metabolism Research and Reviews, 2016, 32, 660-665.	1.7	20
7	An AlphaScreen Assay for the Discovery of Synthetic Chemical Inhibitors of Glucagon Production. Journal of Biomolecular Screening, 2016, 21, 325-332.	2.6	8
8	A Novel Inhibitor of Topoisomerase I Is Selectively Toxic for a Subset of Nonâ€“Small Cell Lung Cancer Cell Lines. Molecular Cancer Therapeutics, 2016, 15, 23-36.	1.9	6
9	Glucagon receptor antibody completely suppresses type 1 diabetes phenotype without insulin by disrupting a novel diabetogenic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2503-2508.	3.3	101
10	A New Biology of Diabetes Revealed by Leptin. Cell Metabolism, 2015, 21, 15-20.	7.2	31
11	The Hedgehog Pathway Effector Smoothened Exhibits Signaling Competency in the Absence of Ciliary Accumulation. Chemistry and Biology, 2014, 21, 1680-1689.	6.2	28
12	Genomeâ€wide si RNA screen reveals coupling between mitotic apoptosis and adaptation. EMBO Journal, 2014, 33, 1960-1976.	3.5	39
13	Hyperglycemia in rodent models of type 2 diabetes requires insulin-resistant alpha cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13217-13222.	3.3	78
14	SAR-Based Optimization of a 4-Quinoline Carboxylic Acid Analogue with Potent Antiviral Activity. ACS Medicinal Chemistry Letters, 2013, 4, 517-521.	1.3	54
15	Systematic Identification of Molecular Subtype-Selective Vulnerabilities in Non-Small-Cell Lung Cancer. Cell, 2013, 155, 552-566.	13.5	151
16	Inhibition of pyrimidine synthesis reverses viral virulence factor-mediated block of mRNA nuclear export. Journal of Cell Biology, 2012, 196, 315-326.	2.3	53
17	Studies toward the Unique Pederin Family Member Psymberin: Structureâ€“Activity Relationships, Biochemical Studies, and Genetics Identify the Mode-of-Action of Psymberin. Journal of the American Chemical Society, 2012, 134, 18998-19003.	6.6	29
18	TDP-43 Identified from a Genome Wide RNAi Screen for SOD1 Regulators. PLoS ONE, 2012, 7, e35818.	1.1	13

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19	Host Modulators of H1N1 Cytopathogenicity. PLoS ONE, 2012, 7, e39284.	1.1	31
20	Image-based genome-wide siRNA screen identifies selective autophagy factors. Nature, 2011, 480, 113-117.	13.7	429
21	Chemical inhibition of RNA viruses reveals REDD1 as a host defense factor. Nature Chemical Biology, 2011, 7, 712-719.	3.9	70
22	The Non-Catalytic Carboxyl-Terminal Domain of ARFGAP1 Regulates Actin Cytoskeleton Reorganization by Antagonizing the Activation of Rac1. PLoS ONE, 2011, 6, e18458.	1.1	8
23	Towards patient-based cancer therapeutics. Nature Biotechnology, 2010, 28, 904-906.	9.4	65
24	Mitochondrial Dysfunction Confers Resistance to Multiple Drugs in<i>Caenorhabditis elegans</i>. Molecular Biology of the Cell, 2010, 21, 956-969.	0.9	45
25	Comprehensive Mapping of the Human Kinome to Epidermal Growth Factor Receptor Signaling. Journal of Biological Chemistry, 2010, 285, 21134-21142.	1.6	39
26	Inhibition of Iron Uptake Is Responsible for Differential Sensitivity to V-ATPase Inhibitors in Several Cancer Cell Lines. PLoS ONE, 2010, 5, e11629.	1.1	24
27	Small moleculeâ€“mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. Nature Chemical Biology, 2009, 5, 100-107.	3.9	1,259
28	Evaluating the potential of Vacuolar ATPase inhibitors as anticancer agents and multigram synthesis of the potent salicylihalamide analog saliphenylhalamide. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5879-5883.	1.0	48
29	Molecular Mechanisms of PLD Function in Membrane Traffic. Traffic, 2008, 9, 1233-1239.	1.3	138
30	Porter and sorter. Nature, 2008, 452, 706-707.	13.7	2
31	Targeting QseC Signaling and Virulence for Antibiotic Development. Science, 2008, 321, 1078-1080.	6.0	452
32	A genome-wide RNAi screen for Wnt/Î²-catenin pathway components identifies unexpected roles for TCF transcription factors in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9697-9702.	3.3	163
33	Genome-Wide siRNA-Based Functional Genomics of Pigmentation Identifies Novel Genes and Pathways That Impact Melanogenesis in Human Cells. PLoS Genetics, 2008, 4, e1000298.	1.5	129
34	Epidermal Growth Factor Receptors with Tyrosine Kinase Domain Mutations Exhibit Reduced Cbl Association, Poor Ubiquitylation, and Down-regulation but Are Efficiently Internalized. Cancer Research, 2007, 67, 7695-7702.	0.4	39
35	Integrating Actin Assembly and Endocytosis. Developmental Cell, 2007, 13, 3-4.	3.1	12
36	Synthetic lethal screen identification of chemosensitizer loci in cancer cells. Nature, 2007, 446, 815-819.	13.7	438

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37	Clathrin-mediated endocytosis before fluorescent proteins. Nature Reviews Molecular Cell Biology, 2006, 7, 63-68.	16.1	44
38	A missense mutation in Caenorhabditis elegans prohibitin 2 confers an atypical multidrug resistance. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15523-15528.	3.3	18
39	Phospholipase D2 Is Required for Efficient Endocytic Recycling of Transferrin Receptors. Molecular Biology of the Cell, 2006, 17, 598-606.	0.9	49
40	High-throughput Screening for Potent and Selective Inhibitors of Plasmodium falciparum Dihydroorotate Dehydrogenase. Journal of Biological Chemistry, 2005, 280, 21847-21853.	1.6	174
41	The Liver X Receptor Ligand T0901317 Decreases Amyloid Î² Production in Vitro and in a Mouse Model of Alzheimer's Disease. Journal of Biological Chemistry, 2005, 280, 4079-4088.	1.6	236
42	ARNO and ARF6 Regulate Axonal Elongation and Branching through Downstream Activation of Phosphatidylinositol 4-Phosphate 5-Kinase Î±. Molecular Biology of the Cell, 2004, 15, 111-120.	0.9	151
43	Salicylihalamide A Inhibits the V0 Sector of the V-ATPase through a Mechanism Distinct from Bafilomycin A1. Journal of Biological Chemistry, 2004, 279, 19755-19763.	1.6	102
44	The Establishment of Telomerase-immortalized Tangier Disease Cell Lines Indicates the Existence of an Apolipoprotein A-I-inducible but ABCA1-independent Cholesterol Efflux Pathway. Journal of Biological Chemistry, 2004, 279, 20866-20873.	1.6	17
45	Phosphoinositides in Constitutive Membrane Traffic. Physiological Reviews, 2004, 84, 699-730.	13.1	264
46	New candidates for vesicle coat proteins. Nature Cell Biology, 2004, 6, 384-385.	4.6	7
47	Features of Influenza HA Required for Apical Sorting Differ from Those Required for Association with DRMs or MAL. Traffic, 2003, 4, 838-849.	1.3	36
48	Phosphatidylinositol 4 Phosphate Regulates Targeting of Clathrin Adaptor AP-1 Complexes to the Golgi. Cell, 2003, 114, 299-310.	13.5	504
49	Exo1: A new chemical inhibitor of the exocytic pathway. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6469-6474.	3.3	139
50	Phosphatidylinositol phosphate 5-kinase IÎ² recruits AP-2 to the plasma membrane and regulates rates of constitutive endocytosis. Journal of Cell Biology, 2003, 162, 693-701.	2.3	131
51	Differently anchored influenza hemagglutinin mutants display distinct interaction dynamics with mutual rafts. Journal of Cell Biology, 2003, 163, 879-888.	2.3	103
52	Casein Kinase I Regulates Membrane Binding by ARF GAP1. Molecular Biology of the Cell, 2002, 13, 2559-2570.	0.9	38
53	[38] Biological properties and measurement of phospholipase D activation by ADP-ribosylation factor (ARF). Methods in Enzymology, 2001, 329, 355-372.	0.4	5
54	Immunolocalisation of phospholipase D1 on tubular vesicular membranes of endocytic and secretory origin. European Journal of Cell Biology, 2001, 80, 508-520.	1.6	38

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55	Internalization-competent Influenza Hemagglutinin Mutants Form Complexes with Clathrin-deficient Multivalent AP-2 Oligomers in Live Cells. Journal of Biological Chemistry, 2001, 276, 28356-28363.	1.6	12
56	A Screen of Random Sequences for those that Alter the Trafficking of the Influenza Virus Hemagglutinin In Vivo. Traffic, 2000, 1, 282-290.	1.3	6
57	Phosphatidylinositol 4,5-bisphosphate induces actin-based movement of raft-enriched vesicles through WASP-Arp2/3. Current Biology, 2000, 10, 311-320.	1.8	490
58	A Point Mutation in the Transmembrane Domain of the Hemagglutinin of Influenza Virus Stabilizes a Hemifusion Intermediate That Can Transit to Fusion. Molecular Biology of the Cell, 2000, 11, 3765-3775.	0.9	97
59	Amino Acid Sequence Requirements of the Transmembrane and Cytoplasmic Domains of Influenza Virus Hemagglutinin for Viable Membrane Fusion. Molecular Biology of the Cell, 1999, 10, 1821-1836.	0.9	120
60	Hierarchy of Sorting Signals in Chimeras of Intestinal Lactase-Phlorizin Hydrolase and the Influenza Virus Hemagglutinin. Journal of Biological Chemistry, 1999, 274, 8061-8067.	1.6	34
61	Role of Lipid Modifications in Targeting Proteins to Detergent-resistant Membrane Rafts. Journal of Biological Chemistry, 1999, 274, 3910-3917.	1.6	583
62	Phospholipase D as an effector for ADP-ribosylation factor in the regulation of vesicular traffic. Chemistry and Physics of Lipids, 1999, 98, 141-152.	1.5	62
63	Lipid regulators of membrane traffic through the Golgi complex. Trends in Cell Biology, 1999, 9, 174-179.	3.6	122
64	Snapshots of ARF1. Cell, 1999, 97, 149-152.	13.5	87
65	Inheriting the Golgi. Cell, 1999, 99, 559-562.	13.5	33
66	An Internalization-Competent Influenza Hemagglutinin Mutant Causes the Redistribution of AP-2 to Existing Coated Pits and Is Colocalized with AP-2 in Clathrin Free Clustersâ€. Biochemistry, 1999, 38, 15166-15173.	1.2	31
67	Cellular expression and function of phospholipase DI. Biochemical Society Transactions, 1999, 27, 634-637.	1.6	5
68	Tyrosine-based Membrane Protein Sorting Signals Are Differentially Interpreted by Polarized Madin-Darby Canine Kidney and LLC-PK1 Epithelial Cells. Journal of Biological Chemistry, 1998, 273, 26862-26869.	1.6	109
69	Mutations in the Middle of the Transmembrane Domain Reverse the Polarity of Transport of the Influenza Virus Hemagglutinin in MDCK Epithelial Cells. Journal of Cell Biology, 1998, 142, 51-57.	2.3	185
70	Tyrosine-dependent Basolateral Sorting Signals Are Distinct from Tyrosine-dependent Internalization Signals. Journal of Biological Chemistry, 1997, 272, 26300-26305.	1.6	28
71	Partitioning of Proteins into Plasma Membrane Microdomains. Journal of Biological Chemistry, 1997, 272, 29538-29545.	1.6	32
72	The role of lipid signaling in constitutive membrane traffic. Current Opinion in Cell Biology, 1997, 9, 519-526.	2.6	102

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73	Phosphatidic acid formation by phospholipase D is required for transport from the endoplasmic reticulum to the Golgi complex. Current Biology, 1997, 7, 301-307.	1.8	209
74	Interaction of influenza virus haemagglutinin with sphingolipid-cholesterol membrane domains via its transmembrane domain. EMBO Journal, 1997, 16, 5501-5508.	3.5	594
75	Different biosynthetic transport routes to the plasma membrane in BHK and CHO cells.. Journal of Cell Biology, 1996, 133, 247-256.	2.3	223
76	Evidence that phospholipase D mediates ADP ribosylation factor-dependent formation of Golgi coated vesicles.. Journal of Cell Biology, 1996, 134, 295-306.	2.3	378
77	Degradation of Mutant Influenza Virus Hemagglutinins Is Influenced by Cytoplasmic Sequences Independent of Internalization Signals. Journal of Biological Chemistry, 1996, 271, 907-917.	1.6	24
78	Endocytosis of chimeric influenza virus hemagglutinin proteins that lack a cytoplasmic recognition feature for coated pits.. Journal of Cell Biology, 1996, 134, 339-348.	2.3	21
79	Phospholipase D is present on Golgi-enriched membranes and its activation by ADP ribosylation factor is sensitive to brefeldin A.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4952-4956.	3.3	203
80	Dynamic or Stable Interactions of Influenza Hemagglutinin Mutants with Coated Pits. Journal of Biological Chemistry, 1995, 270, 21075-21081.	1.6	32
81	Apical and basolateral coated pits of MDCK cells differ in their rates of maturation into coated vesicles, but not in the ability to distinguish between mutant hemagglutinin proteins with different internalization signals.. Journal of Cell Biology, 1995, 129, 1241-1250.	2.3	38
82	Chapter 6 SV40 Virus Expression Vectors. Methods in Cell Biology, 1994, 43 Pt A, 113-136.	0.5	15
83	Sorting of Membrane Proteins in the Endocytic and Exocytic Pathways. , 1993, , 137-156.		1
84	Action of brefeldin A blocked by activation of a pertussis-toxin-sensitive G protein. Nature, 1992, 356, 344-346.	13.7	110
85	Evidence from lateral mobility studies for dynamic interactions of a mutant influenza hemagglutinin with coated pits.. Journal of Cell Biology, 1991, 115, 1585-1594.	2.3	61
86	A single amino acid change in the cytoplasmic domain alters the polarized delivery of influenza virus hemagglutinin.. Journal of Cell Biology, 1991, 114, 413-421.	2.3	277
87	PtK1 cells contain a nondiffusible, dominant factor that makes the Golgi apparatus resistant to brefeldin A.. Journal of Cell Biology, 1991, 113, 1009-1023.	2.3	118
88	Characteristics of the tyrosine recognition signal for internalization of transmembrane surface glycoproteins.. Journal of Cell Biology, 1990, 111, 1393-1407.	2.3	212
89	Evaluation and Characterization of the hyt/hyt Hypothyroid Mouse. Neuroendocrinology, 1989, 49, 509-519.	1.2	58
90	Molecular Biological Approaches to Protein Sorting. Annual Review of Physiology, 1989, 51, 797-810.	5.6	13

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91	Membrane Insertion and Intracellular Transport of Influenza Virus Glycoproteins. , 1989, , 219-267.		7
92	Differential extractability of influenza virus hemagglutinin during intracellular transport in polarized epithelial cells and nonpolar fibroblasts.. Journal of Cell Biology, 1989, 108, 821-832.	2.3	206
93	A single amino acid change in the cytoplasmic domain allows the influenza virus hemagglutinin to be endocytosed through coated pits. Cell, 1988, 53, 743-752.	13.5	271
94	The large external domain is sufficient for the correct sorting of secreted or chimeric influenza virus hemagglutinins in polarized monkey kidney cells.. Journal of Cell Biology, 1987, 104, 769-782.	2.3	94
95	Heterologous transmembrane and cytoplasmic domains direct functional chimeric influenza virus hemagglutinins into the endocytic pathway.. Journal of Cell Biology, 1986, 102, 1271-1283.	2.3	119
96	Chapter 2 Mutational Analysis of the Structure and Function of the Influenza Virus Hemagglutinin. Current Topics in Membranes and Transport, 1985, 23, 17-41.	0.6	6
97	Mutations in the cytoplasmic domain of the influenza virus hemagglutinin affect different stages of intracellular transport.. Journal of Cell Biology, 1985, 100, 704-714.	2.3	166
98	Influenza virus hemagglutinin expression is polarized in cells infected with recombinant SV40 viruses carrying cloned hemagglutinin DNA. Cell, 1983, 33, 435-443.	13.5	148
99	Polarity of influenza and vesicular stomatitis virus maturation in MDCK cells: lack of a requirement for glycosylation of viral glycoproteins.. Proceedings of the National Academy of Sciences of the United States of America, 1979, 76, 6430-6434.	3.3	115