Richard H Gomer

List of Publications by Year
in descending order

85	3,291	196777	182931
papers	citations	29 h-index	54 g-index

188	188	188	3813
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A chemorepellent inhibits local Ras activation to inhibit pseudopod formation to bias cell movement away from the chemorepellent. Molecular Biology of the Cell, 2022, 33, mbcE20100656.	0.9	4
2	Sex-Based Differences in Human Neutrophil Chemorepulsion. Journal of Immunology, 2022, 209, 354-367.	0.4	3
3	Inhibiting Sialidase-Induced TGF-Î²1 Activation Attenuates Pulmonary Fibrosis in Mice. Journal of Pharmacology and Experimental Therapeutics, 2021, 376, 106-117.	1.3	18
4	High-Fat Dietâ€“Induced Adipose Tissue and Liver Inflammation and Steatosis in Mice Are Reduced by Inhibiting Sialidases. American Journal of Pathology, 2021, 191, 131-143.	1.9	22
5	Cell dispersal by localized degradation of a chemoattractant. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2008126118.	3.3	4
6	An Autocrine Negative Feedback Loop Inhibits Dictyostelium discoideum Proliferation through Pathways Including IP3/Ca 2+. MBio, 2021, 12, e0134721.	1.8	5
7	Using Dictyostelium to Develop Therapeutics for Acute Respiratory Distress Syndrome. Frontiers in Cell and Developmental Biology, 2021, 9, 710005.	1.8	2
8	Serum Amyloid P inhibits single stranded RNA-induced lung inflammation, lung damage, and cytokine storm in mice. PLoS ONE, 2021, 16, e0245924.	1.1	9
9	Annotating Putative Proteins Using I-TASSER. MicroPublication Biology, 2021, 2021, .	0.1	0
10	Attenuated pulmonary fibrosis in sialidase-3 knockout (Neu3^{â^'/â^'}) mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L165-L179.	1.3	26
11	An improved shotgun antisense method for mutagenesis and gene identification. BioTechniques, 2020, 68, 163-165.	0.8	2
12	Polyphosphate is an extracellular signal that can facilitate bacterial survival in eukaryotic cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31923-31934.	3.3	33
13	TGF-Î²1 increases sialidase 3 expression in human lung epithelial cells by decreasing its degradation and upregulating its translation. Experimental Lung Research, 2020, 46, 75-80.	0.5	11
14	Reduced Sialylation and Bioactivity of the Antifibrotic Protein Serum Amyloid P in the Sera of Patients with Idiopathic Pulmonary Fibrosis. ImmunoHorizons, 2020, 4, 352-362.	0.8	7
15	A CD209 ligand and a sialidase inhibitor differentially modulate adipose tissue and liver macrophage populations and steatosis in mice on the Methionine and Choline-Deficient (MCD) diet. PLoS ONE, 2020, 15, e0244762.	1.1	6
16	Fibrocytes in the Tumor Microenvironment. Advances in Experimental Medicine and Biology, 2020, 1224, 79-85.	0.8	8
17	The Use of Diffusion Calculations and Monte Carlo Simulations to Understand the Behavior of Cells in Dictyostelium Communities. Computational and Structural Biotechnology Journal, 2019, 17, 684-688.	1.9	2
18	Serum Amyloid P and a Dendritic Cellâ€“Specific Intercellular Adhesion Molecule-3â€“Grabbing Nonintegrin Ligand Inhibit High-Fat Dietâ€“Induced Adipose Tissue and Liver Inflammation and Steatosis in Mice. American Journal of Pathology, 2019, 189, 2400-2413.	1.9	7

#	Article	IF	Citations
19	Extracellular Polyphosphate Promotes Macrophage and Fibrocyte Differentiation, Inhibits Leukocyte Proliferation, and Acts as a Chemotactic Agent for Neutrophils. Journal of Immunology, 2019, 203, 493-499.	0.4	26
20	The putative G proteinâ€“coupled receptor GrlD mediates extracellular polyphosphate sensing in Dictyostelium discoideum. Molecular Biology of the Cell, 2019, 30, 1118-1128.	0.9	19
21	Serum Amyloid P Component Binds Fungal Surface Amyloid and Decreases Human Macrophage Phagocytosis and Secretion of Inflammatory Cytokines. MBio, 2019, 10, .	1.8	25
22	Extracellular signaling in Dictyostelium. International Journal of Developmental Biology, 2019, 63, 395-405.	0.3	8
23	An endogenous chemorepellent directs cell movement by inhibiting pseudopods at one side of cells. Molecular Biology of the Cell, 2019, 30, 242-255.	0.9	19
24	Different Isoforms of the Neuronal Guidance Molecule Slit2 Directly Cause Chemoattraction or Chemorepulsion of Human Neutrophils. Journal of Immunology, 2019, 202, 239-248.	0.4	20
25	Protease activated-receptor 2 is necessary for neutrophil chemorepulsion induced by trypsin, tryptase, or dipeptidyl peptidase IV. Journal of Leukocyte Biology, 2018, 103, 119-128.	1.5	13
26	The Development of Serum Amyloid P as a Possible Therapeutic. Frontiers in Immunology, 2018, 9, 2328.	2.2	56
27	An Autocrine Proliferation Repressor Regulates Dictyostelium discoideum Proliferation and Chemorepulsion Using the G Protein-Coupled Receptor GrlH. MBio, 2018, 9, .	1.8	17
28	Extracellular polyphosphate signals through Ras and Akt to prime Dictyostelium discoideum cells for development. Journal of Cell Science, 2017, 130, 2394-2404.	1.2	35
29	Functional similarities between the dictyostelium protein AprA and the human protein dipeptidylâ€peptidase IV. Protein Science, 2017, 26, 578-585.	3.1	12
30	Identification of compounds that decrease numbers ofMycobacteriain human macrophages in the presence of serum amyloid P. Journal of Leukocyte Biology, 2017, 102, 857-869.	1.5	3
31	Dietary NaCl affects bleomycin-induced lung fibrosis in mice. Experimental Lung Research, 2017, 43, 395-406.	0.5	7
32	Sialidase inhibitors attenuate pulmonary fibrosis in a mouse model. Scientific Reports, 2017, 7, 15069.	1.6	40
33	Monocyte differentiation and macrophage priming are regulated differentially by pentraxins and their ligands. BMC Immunology, 2017, 18, 30.	0.9	31
34	C-reactive protein (CRP) but not the related pentraxins serum amyloid P and PTX3 inhibits the proliferation and induces apoptosis of the leukemia cell line Mono Mac 6. BMC Immunology, 2017, 18, 47.	0.9	14
35	Extracellular polyphosphate signals through Ras and Akt to prime Dictyostelium discoideum cells for development. Development (Cambridge), 2017, 144, e1.2-e1.2.	1.2	0
36	Extracellular Polyphosphate Inhibits Proliferation in an Autocrine Negative Feedback Loop in Dictyostelium discoideum. Journal of Biological Chemistry, 2016, 291, 20260-20269.	1.6	31

#	Article	IF	Citations
37	Evoking picomolar binding in RNA by a single phosphorodithioate linkage. Nucleic Acids Research, 2016, 44, 8052-8064.	6.5	94
38	A canine model for neuronal ceroid lipofuscinosis highlights the promise of gene therapy for lysosomal storage diseases. Annals of Translational Medicine, 2016, 4, S20-S20.	0.7	0
39	Partial genetic suppression of a loss of function mutant of the Neuronal Ceroid Lipofuscinosis-associated protease TPP1 inDictyostelium discoideum. DMM Disease Models and Mechanisms, 2015, 8, 147-56.	1.2	31
40	Role of the Neutrophil Chemorepellent Soluble Dipeptidyl Peptidase IV in Decreasing Inflammation in a Murine Model of Arthritis. Arthritis and Rheumatology, 2015, 67, 2634-2638.	2.9	21
41	The Long Pentraxin PTX3 Promotes Fibrocyte Differentiation. PLoS ONE, 2015, 10, e0119709.	1.1	44
42	Trypsin, Tryptase, and Thrombin Polarize Macrophages towards a Pro-Fibrotic M2a Phenotype. PLoS ONE, 2015, 10, e0138748.	1.1	29
43	A Brief Exposure to Tryptase or Thrombin Potentiates Fibrocyte Differentiation in the Presence of Serum or Serum Amyloid P. Journal of Immunology, 2015, 194, 142-150.	0.4	21
44	DC-SIGN activation mediates the differential effects of SAP and CRP on the innate immune system and inhibits fibrosis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8385-8390.	3.3	56
45	Galectin-3 Binding Protein Secreted by Breast Cancer Cells Inhibits Monocyte-Derived Fibrocyte Differentiation. Journal of Immunology, 2015, 195, 1858-1867.	0.4	44
46	TNF-Î±â€“stimulated fibroblasts secrete lumican to promote fibrocyte differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11929-11934.	3.3	102
47	Persistent Lung Inflammation and Fibrosis in Serum Amyloid P Component (Apcs-/-) Knockout Mice. PLoS ONE, 2014, 9, e93730.	1.1	69
48	Secondary Ion Mass Spectrometry Imaging of Dictyostelium discoideum Aggregation Streams. PLoS ONE, 2014, 9, e99319.	1.1	14
49	Fibroblasts secrete Slit2 to inhibit fibrocyte differentiation and fibrosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18291-18296.	3.3	71
50	Inhibition of murine fibrocyte differentiation by cross-linked IgG is dependent on FcÂRI. Journal of Leukocyte Biology, 2014, 96, 275-282.	1.5	5
51	Distinct FcÎ³ Receptors Mediate the Effect of Serum Amyloid P on Neutrophil Adhesion and Fibrocyte Differentiation. Journal of Immunology, 2014, 193, 1701-1708.	0.4	41
52	Serum amyloid P: a systemic regulator of the innate immune response. Journal of Leukocyte Biology, 2014, 96, 739-743.	1.5	81
53	The p21-Activated Kinase (PAK) Family Member PakD Is Required for Chemorepulsion and Proliferation Inhibition by Autocrine Signals in Dictyostelium discoideum. PLoS ONE, 2014, 9, e96633.	1.1	16
54	Serum amyloid P inhibits granulocyte adhesion. Fibrogenesis and Tissue Repair, 2013, 6, 2.	3.4	31

#	Article	IF	Citations
55	Dipeptidyl Peptidase IV Is a Human and Murine Neutrophil Chemorepellent. Journal of Immunology, 2013, 190, 6468-6477.	0.4	44
56	FcÎ³RI mediates serum amyloid P inhibition of fibrocyte differentiation. Journal of Leukocyte Biology, 2012, 92, 699-711.	1.5	46
57	A secreted protein is an endogenous chemorepellant in Dictyostelium discoideum. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10990-10995.	3.3	42
58	Cell density sensing and size determination. Development Growth and Differentiation, 2011, 53, 482-494.	0.6	46
59	Improved serum-free culture conditions for spleen-derived murine fibrocytes. Journal of Immunological Methods, 2010, 363, 9-20.	0.6	41
60	Investigational approaches to therapies for idiopathic pulmonary fibrosis. Expert Opinion on Investigational Drugs, 2010, 19, 737-745.	1.9	23
61	Identification of Markers that Distinguish Monocyte-Derived Fibrocytes from Monocytes, Macrophages, and Fibroblasts. PLoS ONE, 2009, 4, e7475.	1.1	423
62	Improved serum-free culture conditions for the differentiation of human and murine fibrocytes. Journal of Immunological Methods, 2009, 351, 62-70.	0.6	64
63	A serum amyloid Pâ€binding hydrogel speeds healing of partial thickness wounds in pigs. Wound Repair and Regeneration, 2009, 17, 397-404.	1.5	18
64	Circulating progenitor cells and scleroderma. Current Rheumatology Reports, 2008, 10, 183-188.	2.1	16
65	Serum amyloid P inhibits dermal wound healing. Wound Repair and Regeneration, 2008, 16, 266-273.	1.5	53
66	A Protein with Similarity to PTEN Regulates Aggregation Territory Size by Decreasing Cyclic AMP Pulse Size during Dictyostelium discoideum Development. Eukaryotic Cell, 2008, 7, 1758-1770.	3.4	20
67	Pivotal Advance: Th-1 cytokines inhibit, and Th-2 cytokines promote fibrocyte differentiation. Journal of Leukocyte Biology, 2008, 83, 1323-1333.	1.5	247
68	The secretedDictyosteliumprotein CfaD is a chalone. Journal of Cell Science, 2008, 121, 2473-2480.	1.2	47
69	Reduction of Bleomycin-Induced Pulmonary Fibrosis by Serum Amyloid P. Journal of Immunology, 2007, 179, 4035-4044.	0.4	213
70	Regulatory Pathways for Fibrocyte Differentiation. , 2007, , 37-60.		11
71	A 60-Kilodalton Protein Component of the Counting Factor Complex Regulates Group Size in Dictyostelium discoideum. Eukaryotic Cell, 2006, 5, 1532-1538.	3.4	17
72	Bone marrow-derived fibroblast precursors mediate ischemic cardiomyopathy in mice. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 18284-18289.	3.3	320

#	Article	IF	Citations
73	A secreted factor represses cell proliferation in Dictyostelium. Development (Cambridge), 2005, 132, 4553-4562.	1.2	64
74	High Speed Keck Spectroscopy of Flickering in AM Her. International Astronomical Union Colloquium, 2004, 190, 163-169.	0.1	1
75	Rapid Keck Spectroscopy of Cataclysmic Variables. International Astronomical Union Colloquium, 2004, 194, 155-157.	0.1	1
76	CF45-1, a Secreted Protein Which Participates in Dictyostelium Group Size Regulation. Eukaryotic Cell, 2003, 2, 788-797.	3.4	32
77	A cell number-counting factor regulates the cytoskeleton and cell motility in Dictyostelium. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1371-1376.	3.3	46
78	Cell motility mediates tissue size regulation in Dictyostelium. Journal of Muscle Research and Cell Motility, 2002, 23, 809-815.	0.9	8
79	Not being the wrong size. Nature Reviews Molecular Cell Biology, 2001, 2, 48-55.	16.1	61
80	A cell-density sensing factor regulates the lifetime of a chemoattractant-induced GÎ±-GTP conformation. FEBS Letters, 1997, 404, 100-104.	1.3	13
81	A Cell-Cycle Phase-Associated Cell-Type Choice Mechanism Monitors the Cell Cycle Rather Than Using an Independent Timer. Developmental Biology, 1996, 174, 82-91.	0.9	25
82	Flares and Flickering in the Cataclysmic Variable AE Aquarii. International Astronomical Union Colloquium, 1995, 151, 278-279.	0.1	0
83	Different temporal patterns of expression result in the same type, amount, and distribution of filamin (ABP) in cardiac and skeletal myofibrils. Cytoskeleton, 1994, 27, 248-261.	4.4	17
84	Mitoskelin: A mitochondrial protein found in cytoskeletal preparations. Cytoskeleton, 1989, 13, 274-287.	4.4	14
85	A Eukaryotic Neighbor: Dictyostelium discoideum. , 0, , 439-452.		0