

# Soman N Abraham

## List of Publications by Year in descending order

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116  
papers

10,680  
citations

31976

53  
h-index

32842

100  
g-index

119  
all docs

119  
docs citations

119  
times ranked

10020  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mast cell modulation of neutrophil influx and bacterial clearance at sites of infection through TNF- $\alpha$ . <i>Nature</i> , 1996, 381, 77-80.	27.8	1,064
2	Mast cell-orchestrated immunity to pathogens. <i>Nature Reviews Immunology</i> , 2010, 10, 440-452.	22.7	800
3	Mice lacking neutrophil elastase reveal impaired host defense against gram negative bacterial sepsis. <i>Nature Medicine</i> , 1998, 4, 615-618.	30.7	635
4	Pilus and nonpilus bacterial adhesins: Assembly and function in cell recognition. <i>Cell</i> , 1993, 73, 887-901.	28.9	450
5	Involvement of Cellular Caveolae in Bacterial Entry into Mast Cells. <i>Science</i> , 2000, 289, 785-788.	12.6	295
6	Mast cell- $\alpha$ -derived tumor necrosis factor induces hypertrophy of draining lymph nodes during infection. <i>Nature Immunology</i> , 2003, 4, 1199-1205.	14.5	290
7	Survival of FimH-expressing enterobacteria in macrophages relies on glycolipid traffic. <i>Nature</i> , 1997, 389, 636-639.	27.8	287
8	The nature of immune responses to urinary tract infections. <i>Nature Reviews Immunology</i> , 2015, 15, 655-663.	22.7	233
9	A TRP Channel Senses Lysosome Neutralization by Pathogens to Trigger Their Expulsion. <i>Cell</i> , 2015, 161, 1306-1319.	28.9	227
10	Conservation of the D-mannose-adhesion protein among type 1 fimbriated members of the family Enterobacteriaceae. <i>Nature</i> , 1988, 336, 682-684.	27.8	210
11	Disruption of a Nonribosomal Peptide Synthetase in <i>Aspergillus fumigatus</i> Eliminates Gliotoxin Production. <i>Eukaryotic Cell</i> , 2006, 5, 972-980.	3.4	208
12	Mast cell activators: a new class of highly effective vaccine adjuvants. <i>Nature Medicine</i> , 2008, 14, 536-541.	30.7	192
13	Innate Immunity and Its Regulation by Mast Cells. <i>Journal of Immunology</i> , 2013, 190, 4458-4463.	0.8	190
14	Cyclic AMP- $\alpha$ -regulated exocytosis of <i>Escherichia coli</i> from infected bladder epithelial cells. <i>Nature Medicine</i> , 2007, 13, 625-630.	30.7	187
15	Immune surveillance by mast cells during dengue infection promotes natural killer (NK) and NKT-cell recruitment and viral clearance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9190-9195.	7.1	173
16	Role of mast cell leukotrienes in neutrophil recruitment and bacterial clearance in infectious peritonitis. <i>Journal of Leukocyte Biology</i> , 2000, 67, 841-846.	3.3	168
17	Bacterial Penetration of Bladder Epithelium through Lipid Rafts. <i>Journal of Biological Chemistry</i> , 2004, 279, 18944-18951.	3.4	160
18	Mast cell modulation of the vascular and lymphatic endothelium. <i>Blood</i> , 2011, 118, 5383-5393.	1.4	155

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19	A Novel TLR4-Mediated Signaling Pathway Leading to IL-6 Responses in Human Bladder Epithelial Cells. PLoS Pathogens, 2007, 3, e60.	4.7	151
20	Mast cell-derived particles deliver peripheral signals to remote lymph nodes. Journal of Experimental Medicine, 2009, 206, 2455-2467.	8.5	151
21	Contributions of mast cells and vasoactive products, leukotrienes and chymase, to dengue virus-induced vascular leakage. ELife, 2013, 2, e00481.	6.0	146
22	Microbial entry through caveolae: variations on a theme. Cellular Microbiology, 2002, 4, 783-791.	2.1	143
23	Autoimmune Theories of Chronic Spontaneous Urticaria. Frontiers in Immunology, 2019, 10, 627.	4.8	138
24	Mast Cell Interleukin-10 Drives Localized Tolerance in Chronic Bladder Infection. Immunity, 2013, 38, 349-359.	14.3	137
25	The role of mast cells in host defense and their subversion by bacterial pathogens. Trends in Immunology, 2002, 23, 151-158.	6.8	135
26	Mast cell modulation of immune responses to bacteria. Immunological Reviews, 2001, 179, 16-24.	6.0	132
27	TLR4-mediated expulsion of bacteria from infected bladder epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14966-14971.	7.1	124
28	Attenuated virulence of a <i>Francisella</i> mutant lacking the lipid A 4 $\beta$ -phosphatase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4136-4141.	7.1	120
29	Mast Cells Augment Adaptive Immunity by Orchestrating Dendritic Cell Trafficking through Infected Tissues. Cell Host and Microbe, 2009, 6, 331-342.	11.0	113
30	Caveolae as portals of entry for microbes. Microbes and Infection, 2001, 3, 755-761.	1.9	112
31	TLR4-Initiated and cAMP-Mediated Abrogation of Bacterial Invasion of the Bladder. Cell Host and Microbe, 2007, 1, 287-298.	11.0	108
32	The role of lipid rafts in the pathogenesis of bacterial infections. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1746, 305-313.	4.1	106
33	Phagocytic and Tumor Necrosis Factor Alpha Response of Human Mast Cells following Exposure to Gram-Negative and Gram-Positive Bacteria. Infection and Immunity, 1998, 66, 6030-6034.	2.2	101
34	Structure, function and pharmacology of human itch GPCRs. Nature, 2021, 600, 170-175.	27.8	101
35	Synthetic mast-cell granules as adjuvants to promote and polarize immunity in lymph nodes. Nature Materials, 2012, 11, 250-257.	27.5	89
36	Mast Cell Activation by <i>Mycobacterium tuberculosis</i> : Mediator Release and Role of CD48. Journal of Immunology, 2003, 170, 5590-5596.	0.8	88

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37	Stable Dry Powder Formulation for Nasal Delivery of Anthrax Vaccine. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 31-47.	3.3	82
38	MRGPR-mediated activation of local mast cells clears cutaneous bacterial infection and protects against reinfection. <i>Science Advances</i> , 2019, 5, eaav0216.	10.3	78
39	New roles for mast cells in modulating allergic reactions and immunity against pathogens. <i>Current Opinion in Immunology</i> , 2009, 21, 679-686.	5.5	75
40	Mast cells and basophils in innate immunity. <i>Seminars in Immunology</i> , 1998, 10, 373-381.	5.6	72
41	The mast cell activator compound 48/80 is safe and effective when used as an adjuvant for intradermal immunization with <i>Bacillus anthracis</i> protective antigen. <i>Vaccine</i> , 2009, 27, 3544-3552.	3.8	72
42	CELL BIOLOGY: Caveolae--Not Just Craters in the Cellular Landscape. <i>Science</i> , 2001, 293, 1447-1448.	12.6	71
43	TLR-mediated immune responses in the urinary tract. <i>Current Opinion in Microbiology</i> , 2008, 11, 66-73.	5.1	70
44	Loss of Bladder Epithelium Induced by Cytolytic Mast Cell Granules. <i>Immunity</i> , 2016, 45, 1258-1269.	14.3	70
45	Mast cell desensitization inhibits calcium flux and aberrantly remodels actin. <i>Journal of Clinical Investigation</i> , 2016, 126, 4103-4118.	8.2	70
46	The Distinct Binding Specificities Exhibited by Enterobacterial Type 1 Fimbriae Are Determined by Their Fimbrial Shafts. <i>Journal of Biological Chemistry</i> , 2005, 280, 37707-37716.	3.4	69
47	<i>Flavivirus</i> serocomplex cross-reactive immunity is protective by activating heterologous memory CD4 T cells. <i>Science Advances</i> , 2018, 4, eaar4297.	10.3	69
48	<i>Pseudomonas</i> Invasion of Type I Pneumocytes Is Dependent on the Expression and Phosphorylation of Caveolin-2. <i>Journal of Biological Chemistry</i> , 2005, 280, 4864-4872.	3.4	67
49	<i>Salmonella</i> disrupts lymph node architecture by TLR4-mediated suppression of homeostatic chemokines. <i>Nature Medicine</i> , 2009, 15, 1259-1265.	30.7	65
50	The Mast Cell in Innate and Adaptive Immunity. <i>Advances in Experimental Medicine and Biology</i> , 2011, 716, 162-185.	1.6	65
51	Molecular Basis for the Enterocyte Tropism Exhibited by <i>Salmonella typhimurium</i> Type 1 Fimbriae. <i>Journal of Biological Chemistry</i> , 1999, 274, 5797-5809.	3.4	63
52	Role of Mast Cells in Inflammatory Bowel Disease and Inflammation-Associated Colorectal Neoplasia in IL-10-Deficient Mice. <i>PLoS ONE</i> , 2010, 5, e12220.	2.5	63
53	Barriers to preclinical investigations of anti-dengue immunity and dengue pathogenesis. <i>Nature Reviews Microbiology</i> , 2013, 11, 420-426.	28.6	62
54	Perivascular dendritic cells elicit anaphylaxis by relaying allergens to mast cells via microvesicles. <i>Science</i> , 2018, 362, .	12.6	56

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55	Fimbriae-mediated host-pathogen cross-talk. <i>Current Opinion in Microbiology</i> , 1998, 1, 75-81.	5.1	54
56	Salmonella Typhimurium Impedes Innate Immunity with a Mast-Cell-Suppressing Protein Tyrosine Phosphatase, <i>SptP</i> . <i>Immunity</i> , 2013, 39, 1108-1120.	14.3	52
57	S1P-Dependent Trafficking of Intracellular <i>Yersinia pestis</i> through Lymph Nodes Establishes Buboes and Systemic Infection. <i>Immunity</i> , 2014, 41, 440-450.	14.3	51
58	Contribution of mast cells to bacterial clearance and their proliferation during experimental cystitis induced by type 1 fimbriated <i>E. coli</i> . <i>Immunology Letters</i> , 2004, 91, 103-111.	2.5	48
59	A mastoparan-derived peptide has broad-spectrum antiviral activity against enveloped viruses. <i>Peptides</i> , 2013, 48, 96-105.	2.4	46
60	IL-27 Facilitates Skin Wound Healing through Induction of Epidermal Proliferation and Host Defense. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1166-1175.	0.7	45
61	Clinical implications of mast cell-bacteria interaction. <i>Journal of Molecular Medicine</i> , 1998, 76, 617-623.	3.9	41
62	Counteracting Signaling Activities in Lipid Rafts Associated with the Invasion of Lung Epithelial Cells by <i>Pseudomonas aeruginosa</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 9955-9964.	3.4	41
63	Interaction of <i>Bordetella pertussis</i> with mast cells, modulation of cytokine secretion by pertussis toxin. <i>Cellular Microbiology</i> , 2001, 3, 181-188.	2.1	40
64	Intestinal Mast Cells Mediate Gut Injury and Systemic Inflammation in a Rat Model of Deep Hypothermic Circulatory Arrest*. <i>Critical Care Medicine</i> , 2013, 41, e200-e210.	0.9	40
65	Glycosylphosphatidylinositol-anchored receptor-mediated bacterial endocytosis. <i>FEMS Microbiology Letters</i> , 2001, 197, 131-138.	1.8	39
66	Plasticity in mast cell responses during bacterial infections. <i>Current Opinion in Microbiology</i> , 2012, 15, 78-84.	5.1	38
67	Innate Immune Responses to Bladder Infection. <i>Microbiology Spectrum</i> , 2016, 4, .	3.0	36
68	A highly polarized TH2 bladder response to infection promotes epithelial repair at the expense of preventing new infections. <i>Nature Immunology</i> , 2020, 21, 671-683.	14.5	36
69	Mucosal Targeting of a BoNT/A Subunit Vaccine Adjuvanted with a Mast Cell Activator Enhances Induction of BoNT/A Neutralizing Antibodies in Rabbits. <i>PLoS ONE</i> , 2011, 6, e16532.	2.5	36
70	Inability of encapsulated <i>Klebsiella pneumoniae</i> to assemble functional type 1 fimbriae on their surface. <i>FEMS Microbiology Letters</i> , 1999, 179, 123-130.	1.8	33
71	Ubiquitination of Innate Immune Regulator TRAF3 Orchestrates Expulsion of Intracellular Bacteria by Exocyst Complex. <i>Immunity</i> , 2016, 45, 94-105.	14.3	33
72	Platelets trigger perivascular mast cell degranulation to cause inflammatory responses and tissue injury. <i>Science Advances</i> , 2020, 6, eaay6314.	10.3	32

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73	c-Kit Is Essential for Alveolar Maintenance and Protection from Emphysema-like Disease in Mice. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 1644-1652.	5.6	31
74	The multiple antibacterial activities of the bladder epithelium. Annals of Translational Medicine, 2017, 5, 35-35.	1.7	30
75	A humanized mouse model to study mast cells mediated cutaneous adverse drug reactions. Journal of Leukocyte Biology, 2020, 107, 797-807.	3.3	29
76	A comparison of non-toxin vaccine adjuvants for their ability to enhance the immunogenicity of nasally-administered anthrax recombinant protective antigen. Vaccine, 2013, 31, 1480-1489.	3.8	27
77	Bacterial Penetration of the Mucosal Barrier by Targeting Lipid Rafts. Journal of Investigative Medicine, 2005, 53, 318-321.	1.6	26
78	[3] Interaction of bacteria with mast cells. Methods in Enzymology, 1995, 253, 27-43.	1.0	24
79	Interplay between vesicoureteric reflux and kidney infection in the development of reflux nephropathy in mice. DMM Disease Models and Mechanisms, 2013, 6, 934-41.	2.4	24
80	Bacteria-Host Cell Interaction Mediated by Cellular Cholesterol/Glycolipid-Enriched Microdomains. Bioscience Reports, 1999, 19, 421-432.	2.4	23
81	Mast cell activators as novel immune regulators. Current Opinion in Pharmacology, 2018, 41, 89-95.	3.5	23
82	Collaboration between Distinct Rab Small GTPase Trafficking Circuits Mediates Bacterial Clearance from the Bladder Epithelium. Cell Host and Microbe, 2017, 22, 330-342.e4.	11.0	22
83	Novel mucosal adjuvant, mastoparan-7, improves cocaine vaccine efficacy. Npj Vaccines, 2020, 5, 12.	6.0	21
84	Isolation and characterization of a 180-kiloDalton salivary glycoprotein which mediates the attachment of Actinomyces naeslundii to human buccal epithelial cells. Journal of Periodontal Research, 1991, 26, 97-106.	2.7	20
85	Internalization of FimH+ Escherichia coli by the human mast cell line (HMC-1 5C6) involves protein kinase C. Journal of Leukocyte Biology, 1999, 66, 1031-1038.	3.3	19
86	Studies of the multifaceted mast cell response to bacteria. Current Opinion in Microbiology, 2001, 4, 260-266.	5.1	18
87	Harboring of Particulate Allergens within Secretory Compartments by Mast Cells following IgE/Fc̳RI-Lipid Raft-Mediated Phagocytosis. Journal of Immunology, 2006, 177, 5791-5800.	0.8	18
88	The expanding roles of caveolin proteins in microbial pathogenesis. Communicative and Integrative Biology, 2009, 2, 535-537.	1.4	18
89	BACTERIA-MAST CELL INTERACTIONS IN INFLAMMATORY DISEASE. American Journal of Therapeutics, 1995, 2, 787-792.	0.9	17
90	Role of Bacterial Lectins in Urinary Tract Infections. , 2000, 485, 183-192.		16

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91	How mast cells make decisions. <i>Journal of Clinical Investigation</i> , 2016, 126, 3735-3738.	8.2	16
92	New roles for mast cells in pathogen defense and allergic disease. <i>Discovery Medicine</i> , 2010, 9, 79-83.	0.5	16
93	Mast cell mediator responses and their suppression by pathogenic and commensal microorganisms. <i>Molecular Immunology</i> , 2015, 63, 74-79.	2.2	15
94	Local induction of bladder Th1 responses to combat urinary tract infections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
95	Involvement of dynamin-2 in formation of discoid vesicles in urinary bladder umbrella cells. <i>Cell and Tissue Research</i> , 2009, 337, 91-102.	2.9	14
96	Cromolyn ameliorates acute and chronic injury in a rat lung transplant model. <i>Journal of Heart and Lung Transplantation</i> , 2014, 33, 749-757.	0.6	12
97	The Roles of T cells in Bladder Pathologies. <i>Trends in Immunology</i> , 2021, 42, 248-260.	6.8	12
98	Optimized Mucosal Modified Vaccinia Virus Ankara Prime/Soluble gp120 Boost HIV Vaccination Regimen Induces Antibody Responses Similar to Those of an Intramuscular Regimen. <i>Journal of Virology</i> , 2019, 93, .	3.4	9
99	Nasal Immunization With Small Molecule Mast Cell Activators Enhance Immunity to Co-Administered Subunit Immunogens. <i>Frontiers in Immunology</i> , 2021, 12, 730346.	4.8	9
100	Identification of Novel Mast Cell Activators Using Cell-Based High-Throughput Screening. <i>SLAS Discovery</i> , 2019, 24, 628-640.	2.7	7
101	Th1-Polarized, Dengue Virus-Activated Human Mast Cells Induce Endothelial Transcriptional Activation and Permeability. <i>Viruses</i> , 2020, 12, 1379.	3.3	7
102	Adhesion of Bacteria to Mucosal Surfaces. , 2005, , 35-48.		6
103	Why Serological Responses during Cystitis are Limited. <i>Pathogens</i> , 2016, 5, 19.	2.8	6
104	Complete Genome Sequence of Uropathogenic Escherichia coli Strain CI5. <i>Genome Announcements</i> , 2015, 3, .	0.8	5
105	In Vitro and In Vivo IgE-/Antigen-Mediated Mast Cell Activation. <i>Methods in Molecular Biology</i> , 2018, 1799, 71-80.	0.9	5
106	Introducing a novel experimental model of bladder transplantation in mice. <i>American Journal of Transplantation</i> , 2020, 20, 3558-3566.	4.7	5
107	Reprogramming immunity to food allergens. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1936-1939.e2.	2.9	4
108	Glycosylphosphatidylinositol-anchored receptor-mediated bacterial endocytosis. <i>FEMS Microbiology Letters</i> , 2001, 197, 131-138.	1.8	3

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109	Kidney Î±-intercalated cells and lipocalin 2: defending the urinary tract. <i>Journal of Clinical Investigation</i> , 2014, 124, 2844-2846.	8.2	2
110	Chapter 4 Lipid Raft-Mediated Entry of Bacteria into Host Cells. <i>Advances in Molecular and Cell Biology</i> , 2005, 36, 79-88.	0.1	1
111	Peeing Pentraxins. <i>Immunity</i> , 2014, 40, 460-462.	14.3	1
112	Mast Cells for the Control of Mucosal Immunity. , 2020, , 213-228.		1
113	Salmonella Typhimurium Impedes Innate Immunity With a Mast Cell-Suppressing Tyrosine Phosphatase Sptp. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, AB247.	2.9	0
114	Innate Immune Responses to Bladder Infection. , 2016, , 555-564.		0
115	Mast Cells: Master Drivers of Immune Responses against Pathogens. , 2017, , 273-288.		0
116	Editorial: Mast Cells: Bridging Host-Microorganism Interactions. <i>Frontiers in Immunology</i> , 2022, 13, 827375.	4.8	0