

# Thomas Vogl

## List of Publications by Year in descending order

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87  
papers

6,044  
citations

117625

34  
h-index

82547

72  
g-index

91  
all docs

91  
docs citations

91  
times ranked

8557  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mrp8 and Mrp14 are endogenous activators of Toll-like receptor 4, promoting lethal, endotoxin-induced shock. <i>Nature Medicine</i> , 2007, 13, 1042-1049.	30.7	1,207
2	Myeloid-related proteins 8 and 14 are specifically secreted during interaction of phagocytes and activated endothelium and are useful markers for monitoring disease activity in pauciarticular-onset juvenile rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2000, 43, 628.	6.7	356
3	MRP8 and MRP14 control microtubule reorganization during transendothelial migration of phagocytes. <i>Blood</i> , 2004, 104, 4260-4268.	1.4	295
4	S100A8/A9: From basic science to clinical application. , 2016, 167, 120-131.		294
5	Mesenchymal Inflammation Drives Genotoxic Stress in Hematopoietic Stem Cells and Predicts Disease Evolution in Human Pre-leukemia. <i>Cell Stem Cell</i> , 2016, 19, 613-627.	11.1	277
6	S100A8/A9 Proteins Mediate Neutrophilic Inflammation and Lung Pathology during Tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 1137-1146.	5.6	216
7	Autoinhibitory regulation of S100A8/S100A9 alarmin activity locally restricts sterile inflammation. <i>Journal of Clinical Investigation</i> , 2018, 128, 1852-1866.	8.2	166
8	Pro-Inflammatory S100A8 and S100A9 Proteins: Self-Assembly into Multifunctional Native and Amyloid Complexes. <i>International Journal of Molecular Sciences</i> , 2012, 13, 2893-2917.	4.1	164
9	Alarmin S100A8/S100A9 as a biomarker for molecular imaging of local inflammatory activity. <i>Nature Communications</i> , 2014, 5, 4593.	12.8	150
10	Biophysical characterization of S100A8 and S100A9 in the absence and presence of bivalent cations. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006, 1763, 1298-1306.	4.1	144
11	Extracellular MRP8/14 is a regulator of $\beta_2$ integrin-dependent neutrophil slow rolling and adhesion. <i>Nature Communications</i> , 2015, 6, 6915.	12.8	141
12	S100A9 Interaction with TLR4 Promotes Tumor Growth. <i>PLoS ONE</i> , 2012, 7, e34207.	2.5	133
13	S100-alarmin-induced innate immune programming protects newborn infants from sepsis. <i>Nature Immunology</i> , 2017, 18, 622-632.	14.5	131
14	Calcium-mediated actin reset (CaAR) mediates acute cell adaptations. <i>ELife</i> , 2016, 5, .	6.0	121
15	Alarmins MRP8 and MRP14 Induce Stress Tolerance in Phagocytes under Sterile Inflammatory Conditions. <i>Cell Reports</i> , 2014, 9, 2112-2123.	6.4	118
16	Reactivation of dormant tumor cells by modified lipids derived from stress-activated neutrophils. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	107
17	Single amino acid charge switch defines clinically distinct proline-serine-threonine phosphatase-interacting protein 1 (PSTPIP1) associated inflammatory diseases. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 1337-1345.	2.9	103
18	Heterogeneous bone-marrow stromal progenitors drive myelofibrosis via a druggable alarmin axis. <i>Cell Stem Cell</i> , 2021, 28, 637-652.e8.	11.1	92

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19	Priming anti-tumor immunity by radiotherapy: Dying tumor cell-derived DAMPs trigger endothelial cell activation and recruitment of myeloid cells. <i>Oncolmmunology</i> , 2019, 8, e1523097.	4.6	91
20	Fully reduced HMGB1 accelerates the regeneration of multiple tissues by transitioning stem cells to G<sub>Alert</sub>. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4463-E4472.	7.1	89
21	S100A8/A9 regulates CD11b expression and neutrophil recruitment during chronic tuberculosis. <i>Journal of Clinical Investigation</i> , 2020, 130, 3098-3112.	8.2	85
22	Blockade of Myeloid-Derived Suppressor Cell Expansion with All- <i>Trans</i> Retinoic Acid Increases the Efficacy of Antiangiogenic Therapy. <i>Cancer Research</i> , 2018, 78, 3220-3232.	0.9	84
23	Transcriptome Assessment Reveals a Dominant Role for TLR4 in the Activation of Human Monocytes by the Alarmin MRP8. <i>Journal of Immunology</i> , 2015, 194, 575-583.	0.8	68
24	S100A8 and S100A9 Are Important for Postnatal Development of Gut Microbiota and Immune System in Mice and Infants. <i>Gastroenterology</i> , 2020, 159, 2130-2145.e5.	1.3	64
25	The calcium-binding protein complex S100A8/A9 has a crucial role in controlling macrophage-mediated renal repair following ischemia/reperfusion. <i>Kidney International</i> , 2015, 87, 85-94.	5.2	63
26	Pathogenic Role of the Damage-Associated Molecular Patterns S100A8 and S100A9 in Coxsackievirus B3-Induced Myocarditis. <i>Circulation: Heart Failure</i> , 2017, 10, .	3.9	63
27	The Calcium-binding Proteins S100A8 and S100A9 Initiate the Early Inflammatory Program in Injured Peripheral Nerves. <i>Journal of Biological Chemistry</i> , 2015, 290, 11771-11784.	3.4	60
28	Calprotectin Increases the Activity of the SaERS Two Component System and Murine Mortality during <i>Staphylococcus aureus</i> Infections. <i>PLoS Pathogens</i> , 2015, 11, e1005026.	4.7	59
29	Alarmin S100A9 Induces Proinflammatory and Catabolic Effects Predominantly in the M1 Macrophages of Human Osteoarthritic Synovium. <i>Journal of Rheumatology</i> , 2016, 43, 1874-1884.	2.0	58
30	Monocyte-Induced Development of Th17 Cells and the Release of S100 Proteins Are Involved in the Pathogenesis of Graft-versus-Host Disease. <i>Journal of Immunology</i> , 2014, 193, 3355-3365.	0.8	49
31	Alarmin S100A8 Activates Alveolar Epithelial Cells in the Context of Acute Lung Injury in a TLR4-Dependent Manner. <i>Frontiers in Immunology</i> , 2017, 8, 1493.	4.8	49
32	Impaired cellular energy metabolism in cord blood macrophages contributes to abortive response toward inflammatory threats. <i>Nature Communications</i> , 2019, 10, 1685.	12.8	41
33	Safeguard function of PU.1 shapes the inflammatory epigenome of neutrophils. <i>Nature Immunology</i> , 2019, 20, 546-558.	14.5	40
34	Signaling mechanisms inducing hyporesponsiveness of phagocytes during systemic inflammation. <i>Blood</i> , 2019, 134, 134-146.	1.4	39
35	Myeloid-related protein-8/14 facilitates bacterial growth during pneumococcal pneumonia. <i>Thorax</i> , 2014, 69, 1034-1042.	5.6	36
36	S100A8/A9 (Calprotectin) Is Critical for Development of Glomerulonephritis and Promotes Inflammatory Leukocyte-Renal Cell Interactions. <i>American Journal of Pathology</i> , 2015, 185, 1264-1274.	3.8	36

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37	Differential release and deposition of S100A8/A9 proteins in inflamed upper airway tissue. <i>European Respiratory Journal</i> , 2016, 47, 264-274.	6.7	36
38	In neonates S100A8/S100A9 alarmins prevent the expansion of a specific inflammatory monocyte population promoting septic shock. <i>FASEB Journal</i> , 2017, 31, 1153-1164.	0.5	35
39	Increased Plasma Levels of Danger-Associated Molecular Patterns Are Associated With Immune Suppression and Postoperative Infections in Patients Undergoing Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy. <i>Frontiers in Immunology</i> , 2018, 9, 663.	4.8	35
40	GIP regulates inflammation and body weight by restraining myeloid-cell-derived S100A8/A9. <i>Nature Metabolism</i> , 2019, 1, 58-69.	11.9	33
41	Expression and Function of S100A8/A9 (Calprotectin) in Human Typhoid Fever and the Murine Salmonella Model. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003663.	3.0	31
42	S100A8/A9 increases the mobilization of pro-inflammatory Ly6Chigh monocytes to the synovium during experimental osteoarthritis. <i>Arthritis Research and Therapy</i> , 2017, 19, 217.	3.5	31
43	Optical In Vivo Imaging of the Alarmin S100A9 in Tumor Lesions Allows for Estimation of the Individual Malignant Potential by Evaluation of Tumor-Host Cell Interaction. <i>Journal of Nuclear Medicine</i> , 2015, 56, 450-456.	5.0	30
44	Myeloid-Related Protein 14 Promotes Inflammation and Injury in Meningitis. <i>Journal of Infectious Diseases</i> , 2015, 212, 247-257.	4.0	30
45	Interleukin 17 Promotes Expression of Alarmins S100A8 and S100A9 During the Inflammatory Response of Keratinocytes. <i>Frontiers in Immunology</i> , 2020, 11, 599947.	4.8	30
46	Predictive value of serum calprotectin (S100A8/A9) for clinical response after starting or tapering anti-TNF treatment in patients with rheumatoid arthritis. <i>RMD Open</i> , 2018, 4, e000654.	3.8	28
47	Myeloid-related protein-14 deficiency promotes inflammation in staphylococcal pneumonia. <i>European Respiratory Journal</i> , 2015, 46, 464-473.	6.7	26
48	Serum alarmin S100A8/S100A9 levels and its potential role as biomarker in myocarditis. <i>ESC Heart Failure</i> , 2020, 7, 1442-1451.	3.1	26
49	High Amounts of S100-Alarmins Confer Antimicrobial Activity on Human Breast Milk Targeting Pathogens Relevant in Neonatal Sepsis. <i>Frontiers in Immunology</i> , 2017, 8, 1822.	4.8	24
50	Synovial tissue transcriptomes of long-standing rheumatoid arthritis are dominated by activated macrophages that reflect microbial stimulation. <i>Scientific Reports</i> , 2020, 10, 7907.	3.3	24
51	Imaging, myeloid precursor immortalization, and genome editing for defining mechanisms of leukocyte recruitment <i>in vivo</i> . <i>Theranostics</i> , 2018, 8, 2407-2423.	10.0	23
52	S100A8/A9, a potent serum and molecular imaging biomarker for synovial inflammation and joint destruction in seronegative experimental arthritis. <i>Arthritis Research and Therapy</i> , 2016, 18, 247.	3.5	20
53	Circulating calprotectin (S100A8/A9) is higher in rheumatoid arthritis patients that relapse within 12 months of tapering anti-rheumatic drugs. <i>Arthritis Research and Therapy</i> , 2019, 21, 268.	3.5	19
54	Use of nonspecific cleavage products for protein sequence analysis as shown on calcylin isolated from human granulocytes. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1180-1185.	2.8	18

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55	Transcriptome profiling of mouse colonic eosinophils reveals a key role for eosinophils in the induction of s100a8 and s100a9 in mucosal healing. <i>Scientific Reports</i> , 2017, 7, 7117.	3.3	18
56	Phagocyte-specific S100A8/A9 is upregulated in primary Sjögren's syndrome and triggers the secretion of pro-inflammatory cytokines in vitro. <i>Clinical and Experimental Rheumatology</i> , 2017, 35, 129-136.	0.8	17
57	IL-1 $\beta$ -Mediated Activation of Adipose-Derived Mesenchymal Stromal Cells Results in PMN Reallocation and Enhanced Phagocytosis: A Possible Mechanism for the Reduction of Osteoarthritis Pathology. <i>Frontiers in Immunology</i> , 2019, 10, 1075.	4.8	16
58	Genetic modification of ER-Hoxb8 osteoclast precursors using CRISPR/Cas9 as a novel way to allow studies on osteoclast biology. <i>Journal of Leukocyte Biology</i> , 2017, 101, 957-966.	3.3	14
59	Increase of Intermediate Monocytes in Graft-versus-Host Disease: Correlation with MDR1+Th17.1 Levels and the Effect of Prednisolone and 1 $\alpha$ ,25-Dihydroxyvitamin D3. <i>Biology of Blood and Marrow Transplantation</i> , 2017, 23, 2057-2064.	2.0	13
60	Fc $\gamma$ 3 receptor-mediated influx of S100A8/A9-producing neutrophils as inducer of bone erosion during antigen-induced arthritis. <i>Arthritis Research and Therapy</i> , 2018, 20, 80.	3.5	13
61	S100A9 plays a pivotal role in a mouse model of herpetic neuralgia via TLR4/TNF pathway. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 353-362.	4.1	13
62	S100A9 extends lifespan in insulin deficiency. <i>Nature Communications</i> , 2019, 10, 3545.	12.8	11
63	Ubiquitination of <i>Listeria</i> Virulence Factor InlC Contributes to the Host Response to Infection. <i>MBio</i> , 2019, 10, .	4.1	11
64	Phenotype of Innate Immune Cells in Uveitis Associated with Axial Spondyloarthritis- and Juvenile Idiopathic Arthritis-associated Uveitis. <i>Ocular Immunology and Inflammation</i> , 2020, , 1-10.	1.8	10
65	Male kidney allograft recipients at risk for urinary tract infection?. <i>PLoS ONE</i> , 2017, 12, e0188262.	2.5	10
66	The alarmin S100A9 hampers osteoclast differentiation from human circulating precursors by reducing the expression of RANK. <i>FASEB Journal</i> , 2019, 33, 10104-10115.	0.5	9
67	Targeting of Formyl Peptide Receptor 2 for <i>in vivo</i> imaging of acute vascular inflammation. <i>Theranostics</i> , 2020, 10, 6599-6614.	10.0	9
68	S100A8/A9 is the first predictive marker for neonatal sepsis. <i>Clinical and Translational Medicine</i> , 2021, 11, e338.	4.0	9
69	Characterization of monocyte subtypes regarding their phenotype and development in the context of graft-versus-host disease. <i>Transplant Immunology</i> , 2018, 50, 48-54.	1.2	8
70	S100a9 Protects Male Lupus-Prone NZBWF1 Mice From Disease Development. <i>Frontiers in Immunology</i> , 2021, 12, 681503.	4.8	8
71	C/EBP $\beta$ -induced epigenetic changes control the dynamic gene transcription of S100a8 and S100a9. <i>ELife</i> , 2022, 11, .	6.0	8
72	Analysis of monocyte cell tractions in 2.5D reveals mesoscale mechanics of podosomes during substrate-indenting cell protrusion. <i>Journal of Cell Science</i> , 2022, 135, .	2.0	8

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73	The alarmins S100A8 and S100A9 mediate acute pain in experimental synovitis. <i>Arthritis Research and Therapy</i> , 2020, 22, 199.	3.5	7
74	Immune Resolution Dilemma: Host Antimicrobial Factor S100A8/A9 Modulates Inflammatory Collateral Tissue Damage During Disseminated Fungal Peritonitis. <i>Frontiers in Immunology</i> , 2021, 12, 553911.	4.8	7
75	Nox2 Deficiency Reduces Cartilage Damage and Ectopic Bone Formation in an Experimental Model for Osteoarthritis. <i>Antioxidants</i> , 2021, 10, 1660.	5.1	7
76	Uncoupled biological and chronological aging of neutrophils in cancer promotes tumor progression. , 2021, 9, e003495.		7
77	Elevation of inflammatory S100A8/S100A9 complexes in intracranial aneurysms. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 1117-1121.	3.3	6
78	Hepatic non-parenchymal S100A9-TLR4-mTORC1 axis normalizes diabetic ketogenesis. <i>Nature Communications</i> , 2022, 13, .	12.8	6
79	Myeloid-related proteins-8 and -14 are expressed but dispensable in the pathogenesis of experimental epidermolysis bullosa acquisita and bullous pemphigoid. <i>Journal of Dermatological Science</i> , 2016, 81, 165-172.	1.9	3
80	S100A8/A9 is not essential for the development of inflammation and joint pathology in interleukin-1 receptor antagonist knockout mice. <i>Arthritis Research and Therapy</i> , 2021, 23, 216.	3.5	3
81	In vivo imaging of microenvironmental and anti-PD-L1-mediated dynamics in cancer using S100A8/S100A9 as an imaging biomarker. <i>Neoplasia</i> , 2022, 28, 100792.	5.3	2
82	S100A9-Imaging Enables Estimation of Early Therapy-Mediated Changes in the Inflammatory Tumor Microenvironment. <i>Biomedicines</i> , 2021, 9, 29.	3.2	1
83	Elevated serum levels of alarmin S100A8/A9 in patients with hand osteoarthritis. <i>Clinical and Experimental Rheumatology</i> , 2019, 37, 885.	0.8	1
84	01.03â€¦Ttp/s100a9 deficient mice promote a tnf-dependent psoriatic arthritis phenotype triggered by the bacterial environment. , 2017, , .		0
85	MRP8/14 does not contribute to dissemination or inflammation in a murine model of Lyme borreliosis. <i>Immunobiology</i> , 2018, 223, 694-698.	1.9	0
86	Involvement Of S100 Proteins and Hsp90 In The Pathogenesis Of Graft-Versus-Host Disease After Allogeneic Hematopoetic Cell Transplantation. <i>Blood</i> , 2013, 122, 2058-2058.	1.4	0
87	Inflammatory Niche Signalling Drives Genotoxic Stress in Hematopoietic Stem Cells and Predicts Leukemic Evolution in Human Leukemia Predisposition Syndromes. <i>Blood</i> , 2016, 128, 428-428.	1.4	0