

# Thomas Vogl

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 2  | C/EBP $\beta$ -induced epigenetic changes control the dynamic gene transcription of S100a8 and S100a9. <i>ELife</i> , 2022, 11, .   | 6.0  | 8         |
| 3  | 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         |
| 4  | Hepatic non-parenchymal S100A9-TLR4-mTORC1 axis normalizes diabetic ketogenesis. <i>Nature Communications</i> , 2022, 13, .   | 12.8 | 6         |
| 5  | 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        |
| 6  | S100A9-Imaging Enables Estimation of Early Therapy-Mediated Changes in the Inflammatory Tumor Microenvironment. <i>Biomedicines</i> , 2021, 9, 29.  | 3.2  | 1         |
| 7  | 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         |
| 8  | S100A8/A9 is the first predictive marker for neonatal sepsis. <i>Clinical and Translational Medicine</i> , 2021, 11, e338.  | 4.0  | 9         |
| 9  | S100a9 Protects Male Lupus-Prone NZBWF1 Mice From Disease Development. <i>Frontiers in Immunology</i> , 2021, 12, 681503.   | 4.8  | 8         |
| 10 | 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         |
| 11 | Nox2 Deficiency Reduces Cartilage Damage and Ectopic Bone Formation in an Experimental Model for Osteoarthritis. <i>Antioxidants</i> , 2021, 10, 1660.  | 5.1  | 7         |
| 12 | Uncoupled biological and chronological aging of neutrophils in cancer promotes tumor progression. , 2021, 9, e003495.   |      | 7         |
| 13 | Reactivation of dormant tumor cells by modified lipids derived from stress-activated neutrophils. <i>Science Translational Medicine</i> , 2020, 12, .   | 12.4 | 107       |
| 14 | The alarmins S100A8 and S100A9 mediate acute pain in experimental synovitis. <i>Arthritis Research and Therapy</i> , 2020, 22, 199.   | 3.5  | 7         |
| 15 | 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        |
| 16 | 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        |
| 17 | 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        |
| 18 | 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         |

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|----|--|------|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | Elevation of inflammatory S100A8/S100A9 complexes in intracranial aneurysms. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 1117-1121.  | 3.3  | 6         |
| 22 | 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        |
| 23 | S100A8/A9 regulates CD11b expression and neutrophil recruitment during chronic tuberculosis. <i>Journal of Clinical Investigation</i> , 2020, 130, 3098-3112.  | 8.2  | 85        |
| 24 | S100A9 extends lifespan in insulin deficiency. <i>Nature Communications</i> , 2019, 10, 3545.  | 12.8 | 11        |
| 25 | 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         |
| 26 | 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        |
| 27 | Signaling mechanisms inducing hyporesponsiveness of phagocytes during systemic inflammation. <i>Blood</i> , 2019, 134, 134-146.  | 1.4  | 39        |
| 28 | Safeguard function of PU.1 shapes the inflammatory epigenome of neutrophils. <i>Nature Immunology</i> , 2019, 20, 546-558.   | 14.5 | 40        |
| 29 | 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        |
| 30 | Ubiquitination of <i>Listeria</i> Virulence Factor InlC Contributes to the Host Response to Infection. <i>MBio</i> , 2019, 10, .   | 4.1  | 11        |
| 31 | 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        |
| 32 | 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        |
| 33 | GIP regulates inflammation and body weight by restraining myeloid-cell-derived S100A8/A9. <i>Nature Metabolism</i> , 2019, 1, 58-69.   | 11.9 | 33        |
| 34 | Elevated serum levels of alarmin S100A8/A9 in patients with hand osteoarthritis. <i>Clinical and Experimental Rheumatology</i> , 2019, 37, 885.  | 0.8  | 1         |
| 35 | 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        |
| 36 | Fully reduced HMGB1 accelerates the regeneration of multiple tissues by transitioning stem cells to G <sub>0</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4463-E4472.                      | 7.1  | 89        |

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|----|--|------|-----------|
| 37 | 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        |
| 38 | 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         |
| 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 | 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        |
| 41 | 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         |
| 42 | 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        |
| 43 | Autoinhibitory regulation of S100A8/S100A9 alarmin activity locally restricts sterile inflammation. <i>Journal of Clinical Investigation</i> , 2018, 128, 1852-1866.   | 8.2  | 166       |
| 44 | S100-alarmin-induced innate immune programming protects newborn infants from sepsis. <i>Nature Immunology</i> , 2017, 18, 622-632.   | 14.5 | 131       |
| 45 | 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        |
| 46 | 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        |
| 47 | 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        |
| 48 | 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        |
| 49 | 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        |
| 50 | 01.03-Deficient mice promote a tnf-dependent psoriatic arthritis phenotype triggered by the bacterial environment. , 2017, , .   |      | 0         |
| 51 | 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        |
| 52 | 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        |
| 53 | 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        |
| 54 | Male kidney allograft recipients at risk for urinary tract infection?. <i>PLoS ONE</i> , 2017, 12, e0188262.   | 2.5  | 10        |

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|----|--|------|-----------|
| 55 | 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        |
| 56 | Calcium-mediated actin reset (CaAR) mediates acute cell adaptations. <i>ELife</i> , 2016, 5, .   | 6.0  | 121       |
| 57 | 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        |
| 58 | 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       |
| 59 | S100A8/A9: From basic science to clinical application. , 2016, 167, 120-131.   |      | 294       |
| 60 | 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        |
| 61 | 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         |
| 62 | 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        |
| 63 | 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         |
| 64 | Calprotectin Increases the Activity of the SaRS Two Component System and Murine Mortality during <i>Staphylococcus aureus</i> Infections. <i>PLoS Pathogens</i> , 2015, 11, e1005026.  | 4.7  | 59        |
| 65 | 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       |
| 66 | 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        |
| 67 | 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       |
| 68 | 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        |
| 69 | 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        |
| 70 | Expression and Function of S100A8/A9 (Calprotectin) in Human Typhoid Fever and the Murine <i>Salmonella</i> Model. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003663.  | 3.0  | 31        |
| 71 | 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        |
| 72 | Myeloid-related protein-14 deficiency promotes inflammation in staphylococcal pneumonia. <i>European Respiratory Journal</i> , 2015, 46, 464-473.  | 6.7  | 26        |

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|----|---|------|-----------|
| 73 | 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        |
| 74 | Myeloid-Related Protein 14 Promotes Inflammation and Injury in Meningitis. <i>Journal of Infectious Diseases</i> , 2015, 212, 247-257.  | 4.0  | 30        |
| 75 | Alarmins MRP8 and MRP14 Induce Stress Tolerance in Phagocytes under Sterile Inflammatory Conditions. <i>Cell Reports</i> , 2014, 9, 2112-2123.  | 6.4  | 118       |
| 76 | Myeloid-related protein-8/14 facilitates bacterial growth during pneumococcal pneumonia. <i>Thorax</i> , 2014, 69, 1034-1042.   | 5.6  | 36        |
| 77 | Alarmin S100A8/S100A9 as a biomarker for molecular imaging of local inflammatory activity. <i>Nature Communications</i> , 2014, 5, 4593.  | 12.8 | 150       |
| 78 | 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        |
| 79 | 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       |
| 80 | 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         |
| 81 | 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       |
| 82 | S100A9 Interaction with TLR4 Promotes Tumor Growth. <i>PLoS ONE</i> , 2012, 7, e34207.  | 2.5  | 133       |
| 83 | 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     |
| 84 | 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       |
| 85 | MRP8 and MRP14 control microtubule reorganization during transendothelial migration of phagocytes. <i>Blood</i> , 2004, 104, 4260-4268.   | 1.4  | 295       |
| 86 | Use of nonspecific cleavage products for protein sequence analysis as shown on calyculin isolated from human granulocytes. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1180-1185.  | 2.8  | 18        |
| 87 | 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       |