Maren von KÃ¶ckritz-Blickwede

List of Publications by Year
in descending order

99 papers	4,718 citations	126907 33 h-index	106344 65 g-index
100 all docs	100 docs citations	100 times ranked	6434 citing authors

#	Article	IF	Citations
1	Nuclease Expression by Staphylococcus aureus Facilitates Escape from Neutrophil Extracellular Traps. Journal of Innate Immunity, 2010, 2, 576-586.	3.8	402
2	Statins Enhance Formation of Phagocyte Extracellular Traps. Cell Host and Microbe, 2010, 8, 445-454.	11.0	368
3	Type <scp>I</scp><scp>IFN</scp>s induce antiâ€tumor polarization of tumor associated neutrophils in mice and human. International Journal of Cancer, 2016, 138, 1982-1993.	5.1	298
4	To NET or not to NET:current opinions and state of the science regarding the formation of neutrophil extracellular traps. Cell Death and Differentiation, 2019, 26, 395-408.	11.2	295
5	Innate immunity turned inside-out: antimicrobial defense by phagocyte extracellular traps. Journal of Molecular Medicine, 2009, 87, 775-783.	3.9	232
6	Patients with COVID-19: in the dark-NETs of neutrophils. Cell Death and Differentiation, 2021, 28, 3125-3139.	11.2	189
7	Scent dog identification of samples from COVID-19 patients â€“ a pilot study. BMC Infectious Diseases, 2020, 20, 536.	2.9	132
8	S100-alarmin-induced innate immune programming protects newborn infants from sepsis. Nature Immunology, 2017, 18, 622-632.	14.5	131
9	The antimicrobial peptide LL-37 facilitates the formation of neutrophil extracellular traps. Biochemical Journal, 2014, 464, 3-11.	3.7	121
10	Novel Role of the Antimicrobial Peptide LL-37 in the Protection of Neutrophil Extracellular Traps against Degradation by Bacterial Nucleases. Journal of Innate Immunity, 2014, 6, 860-868.	3.8	120
11	Functional variants in the sucraseâ€“isomaltase gene associate with increased risk of irritable bowel syndrome. Gut, 2018, 67, 263-270.	12.1	120
12	Alarmins MRP8 and MRP14 Induce Stress Tolerance in Phagocytes under Sterile Inflammatory Conditions. Cell Reports, 2014, 9, 2112-2123.	6.4	118
13	Streptococcus suis DNase SsnA contributes to degradation of neutrophil extracellular traps (NETs) and evasion of NET-mediated antimicrobial activity. Microbiology (United Kingdom), 2014, 160, 385-395.	1.8	116
14	How Neutrophil Extracellular Traps Become Visible. Journal of Immunology Research, 2016, 2016, 1-13.	2.2	113
15	Influences of Chloride and Hypochlorite on Neutrophil Extracellular Trap Formation. PLoS ONE, 2012, 7, e42984.	2.5	106
16	The impact of hypoxia on intestinal epithelial cell functions: consequences for invasion by bacterial pathogens. Molecular and Cellular Pediatrics, 2016, 3, 14.	1.8	85
17	Fetal calf serum contains heat-stable nucleases that degrade neutrophil extracellular traps. Blood, 2009, 114, 5245-5246.	1.4	83
18	Neutrophil extracellular trap formation in theStreptococcus suis-infected cerebrospinal fluid compartment. Cellular Microbiology, 2017, 19, e12649.	2.1	79

#	Article	IF	Citations
19	Formation of Neutrophil Extracellular Traps under Low Oxygen Level. Frontiers in Immunology, 2016, 7, 518.	4.8	73
20	Antimicrobial Susceptibility Testing of Antimicrobial Peptides to Better Predict Efficacy. Frontiers in Cellular and Infection Microbiology, 2020, 10, 326.	3.9	70
21	Antimicrobial Activity of Mast Cells: Role and Relevance of Extracellular DNA Traps. Frontiers in Immunology, 2016, 7, 265.	4.8	65
22	Visualization and Functional Evaluation of Phagocyte Extracellular Traps. Methods in Microbiology, 2010, 37, 139-160.	0.8	57
23	Î²-Glucan protects neutrophil extracellular traps against degradation by Aeromonas hydrophila in carp (Cyprinus carpio). Fish and Shellfish Immunology, 2012, 33, 1060-1064.	3.6	52
24	Identification of a novel DNase of Streptococcus suis (EndAsuis) important for neutrophil extracellular trap degradation during exponential growth. Microbiology (United Kingdom), 2015, 161, 838-850.	1.8	49
25	Antibodies Mediate Formation of Neutrophil Extracellular Traps in the Middle Ear and Facilitate Secondary Pneumococcal Otitis Media. Infection and Immunity, 2014, 82, 364-370.	2.2	47
26	The effect of Î²-glucan on formation and functionality of neutrophil extracellular traps in carp (Cyprinus carpio L.). Developmental and Comparative Immunology, 2014, 44, 280-285.	2.3	45
27	Vasculitis and Neutrophil Extracellular Traps in Lungs of Golden Syrian Hamsters With SARS-CoV-2. Frontiers in Immunology, 2021, 12, 640842.	4.8	45
28	The Diverse Forms of Lactose Intolerance and the Putative Linkage to Several Cancers. Nutrients, 2015, 7, 7209-7230.	4.1	42
29	Iron-chelating agent desferrioxamine stimulates formation of neutrophil extracellular traps (NETs) in human blood-derived neutrophils. Bioscience Reports, 2016, 36, .	2.4	42
30	Degraded neutrophil extracellular traps promote the growth of Actinobacillus pleuropneumoniae. Cell Death and Disease, 2019, 10, 657.	6.3	39
31	High Nuclease Activity of Long Persisting Staphylococcus aureus Isolates Within the Airways of Cystic Fibrosis Patients Protects Against NET-Mediated Killing. Frontiers in Immunology, 2019, 10, 2552.	4.8	37
32	Extracellular Trap Formation in Response to Trypanosoma cruzi Infection in Granulocytes Isolated From Dogs and Common Opossums, Natural Reservoir Hosts. Frontiers in Microbiology, 2018, 9, 966.	3.5	36
33	Lipid alterations in human blood-derived neutrophils lead to formation of neutrophil extracellular traps. European Journal of Cell Biology, 2014, 93, 347-354.	3.6	35
34	In neonates S100A8/S100A9 alarmins prevent the expansion of a specific inflammatory monocyte population promoting septic shock. FASEB Journal, 2017, 31, 1153-1164.	0.5	35
35	Mechanism of drug extrusion by brain endothelial cells via lysosomal drug trapping and disposal by neutrophils. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9590-E9599.	7.1	35
36	Antimicrobial activity of HL-60 cells compared to primary blood-derived neutrophils against Staphylococcus aureus. Journal of Negative Results in BioMedicine, 2017, 16, 2.	1.4	34

#	Article	IF	Citations
37	Extracellular Traps: An Ancient Weapon of Multiple Kingdoms. Biology, 2020, 9, 34.	2.8	32
38	Enrofloxacin Enhances the Formation of Neutrophil Extracellular Traps in Bovine Granulocytes. Journal of Innate Immunity, 2014, 6, 706-712.	3.8	30
39	Automatic determination of NET (neutrophil extracellular traps) coverage in fluorescent microscopy images. Bioinformatics, 2015, 31, 2364-2370.	4.1	26
40	Neutrophil Extracellular Traps in the Pathogenesis of Equine Recurrent Uveitis (ERU). Cells, 2019, 8, 1528.	4.1	26
41	Detection, Visualization, and Quantification of Neutrophil Extracellular Traps (NETs) and NET Markers. Methods in Molecular Biology, 2020, 2087, 425-442.	0.9	26
42	Yersinia enterocolitica-mediated degradation of neutrophil extracellular traps (NETs). FEMS Microbiology Letters, 2015, 362, fnv192.	1.8	25
43	Interaction of factor VII activating protease (FSAP) with neutrophil extracellular traps (NETs). Thrombosis Research, 2018, 161, 36-42.	1.7	25
44	Scent dog identification of SARS-CoV-2 infections in different body fluids. BMC Infectious Diseases, 2021, 21, 707.	2.9	24
45	Ferrets are valuable models for SARS-CoV-2 research. Veterinary Pathology, 2022, 59, 661-672.	1.7	24
46	Hypoxia Modulates the Response of Mast Cells to Staphylococcus aureus Infection. Frontiers in Immunology, 2017, 8, 541.	4.8	22
47	Inactivation of multidrug-resistant pathogens and Yersinia enterocolitica with cold atmospheric-pressure plasma on stainless-steel surfaces. International Journal of Antimicrobial Agents, 2018, 52, 811-818.	2.5	21
48	Measuring oxygen levels in Caco-2 cultures. Hypoxia (Auckland, N Z), 2015, 3, 53.	1.9	20
49	Role of Bacterial and Host DNases on Host-Pathogen Interaction during Streptococcus suis Meningitis. International Journal of Molecular Sciences, 2020, 21, 5289.	4.1	20
50	Molecular Prerequisites for Neutrophil Extracellular Trap Formation and Evasion Mechanisms of Staphylococcus aureus. Frontiers in Immunology, 2022, 13, 836278.	4.8	20
51	In vitro activity of human and animal cathelicidins against livestock-associated methicillin-resistant Staphylococcus aureus. Veterinary Microbiology, 2016, 194, 107-111.	1.9	19
52	Staphylococcus aureusprotects its immune-evasion proteins against degradation by neutrophil serine proteases. Cellular Microbiology, 2016, 18, 536-545.	2.1	18
53	Antimicrobial and Immunomodulatory Effect of Gum Arabic on Human and Bovine Granulocytes Against Staphylococcus aureus and Escherichia coli. Frontiers in Immunology, 2019, 10, 3119.	4.8	18
54	Hypoxia Decreases Invasin-Mediated Yersinia enterocolitica Internalization into Caco-2 Cells. PLoS ONE, 2016, 11, e0146103.	2.5	17

#	Article	IF	Citations
55	Discrimination of SARS-CoV-2 Infections From Other Viral Respiratory Infections by Scent Detection Dogs. Frontiers in Medicine, 2021, 8, 749588.	2.6	17
56	Novel role of DNA in neutrophil extracellular traps. Trends in Microbiology, 2015, 23, 330-331.	7.7	16
57	Case study on the pathophysiology of Fabry disease: abnormalities of cellular membranes can be reversed by substrate reduction in vitro. Bioscience Reports, 2017, 37, .	2.4	16
58	How Long Does a Neutrophil Live?â€”The Effect of 24 h Whole Blood Storage on Neutrophil Functions in Pigs. Biomedicines, 2020, 8, 278.	3.2	16
59	The Balance of Neutrophil Extracellular Trap Formation and Nuclease Degradation: an Unknown Role of Bacterial Coinfections in COVID-19 Patients?. MBio, 2021, 12, .	4.1	16
60	Analysis of Porcine Pro- and Anti-Inflammatory Cytokine Induction by S. suis In Vivo and In Vitro. Pathogens, 2020, 9, 40.	2.8	15
61	Influencing Factors and Applicability of the Viability EMA-qPCR for a Detection and Quantification of Campylobacter Cells from Water Samples. PLoS ONE, 2014, 9, e113812.	2.5	14
62	Comparison Between K3EDTA and Lithium Heparin as Anticoagulant to Isolate Bovine Granulocytes From Blood. Frontiers in Immunology, 2018, 9, 1570.	4.8	14
63	Mesenchymal to epithelial transition driven by canine distemper virus infection of canine histiocytic sarcoma cells contributes to a reduced cell motility in vitro. Journal of Cellular and Molecular Medicine, 2020, 24, 9332-9348.	3.6	14
64	Antimicrobial Susceptibility Testing of Antimicrobial Peptides Requires New and Standardized Testing Structures. ACS Infectious Diseases, 2021, 7, 2205-2208.	3.8	14
65	Oxidative Stress in Canine Histiocytic Sarcoma Cells Induced by an Infection with Canine Distemper Virus Led to a Dysregulation of HIF-1Î± Downstream Pathway Resulting in a Reduced Expression of VEGF-B In Vitro. Viruses, 2020, 12, 200.	3.3	13
66	Impact of Virtual Patients as Optional Learning Material in Veterinary Biochemistry Education. Journal of Veterinary Medical Education, 2018, 45, 177-187.	0.6	12
67	LPS Primes Brain Responsiveness to High Mobility Group Box-1 Protein. Pharmaceuticals, 2021, 14, 558.	3.8	12
68	Detrimental Role of Neutrophil Extracellular Traps during Dengue Virus Infection. Trends in Immunology, 2020, 41, 3-6.	6.8	11
69	Insights Into Immunothrombotic Mechanisms in Acute Stroke due to Vaccine-Induced Immune Thrombotic Thrombocytopenia. Frontiers in Immunology, 2022, 13, .	4.8	11
70	Prominent Binding of Human and Equine Fibrinogen to Streptococcus equi subsp. zooepidemicus Is Mediated by Specific SzM Types and Is a Distinct Phenotype of Zoonotic Isolates. Infection and Immunity, 2019, 88, .	2.2	10
71	Investigations on SARS-CoV-2 Susceptibility of Domestic and Wild Animals Using Primary Cell Culture Models Derived from the Upper and Lower Respiratory Tract. Viruses, 2022, 14, 828.	3.3	10
72	Neurotrophic effects of GM1 ganglioside, NGF, and FGF2 on canine dorsal root ganglia neurons in vitro. Scientific Reports, 2020, 10, 5380.	3.3	9

#	Article	IF	Citations
73	Effects of SecDF on the antimicrobial functions of cathelicidins against Staphylococcus aureus. Veterinary Microbiology, 2017, 200, 52-58.	1.9	8
74	Testing cathelicidin susceptibility of bacterial mastitis isolates: Technical challenges and data output for clinical isolates. Veterinary Microbiology, 2017, 210, 107-115.	1.9	8
75	Survival of Streptococcus suis in Porcine Blood Is Limited by the Antibody- and Complement-Dependent Oxidative Burst Response of Granulocytes. Infection and Immunity, 2020, 88, .	2.2	8
76	Constitutive TNFâ€Î± signaling in neonates is essential for the development of tissueâ€resident leukocyte profiles at barrier sites. FASEB Journal, 2019, 33, 10633-10647.	0.5	7
77	Telomere dysfunction promotes small vessel vasculitis via the LL37-NETs-dependent mechanism. Annals of Translational Medicine, 2020, 8, 357-357.	1.7	7
78	Staphylococcus aureus Infection Influences the Function of Intestinal Cells by Altering the Lipid Raft-Dependent Sorting of Sucraseâ€“Isomaltase. Frontiers in Cell and Developmental Biology, 2021, 9, 699970.	3.7	7
79	Utilization and acceptance of virtual patients in veterinary basic sciences - the vetVIP-project. GMS Journal for Medical Education, 2017, 34, Doc19.	0.1	7
80	Impaired Degradation of Neutrophil Extracellular Traps: A Possible Severity Factor of Elderly Male COVID-19 Patients. Journal of Innate Immunity, 2022, 14, 461-476.	3.8	7
81	Ex Vivo and In Vitro Analysis Identify a Detrimental Impact of Neutrophil Extracellular Traps on Eye Structures in Equine Recurrent Uveitis. Frontiers in Immunology, 2022, 13, 830871.	4.8	6
82	Formation of Neutrophil Extracellular Traps by Reduction of Cellular Cholesterol Is Independent of Oxygen and HIF-1Î±. International Journal of Molecular Sciences, 2022, 23, 3195.	4.1	6
83	Methods to Study Lipid Alterations in Neutrophils and the Subsequent Formation of Neutrophil Extracellular Traps. Journal of Visualized Experiments, 2017, , .	0.3	5
84	In Vitro Testing of Crude Natural Plant Extracts from Costa Rica for Their Ability to Boost Innate Immune Cells against Staphylococcus aureus. Biomedicines, 2017, 5, 40.	3.2	5
85	Comparing Cathelicidin Susceptibility of the Meningitis Pathogens Streptococcus suis and Escherichia coli in Culture Medium in Contrast to Porcine or Human Cerebrospinal Fluid. Frontiers in Microbiology, 2019, 10, 2911.	3.5	5
86	Neutrophils exhibit an individual response to different oral bacterial biofilms. Journal of Oral Microbiology, 2021, 13, 1856565.	2.7	5
87	d-Alanylation of Lipoteichoic Acids in Streptococcus suis Reduces Association With Leukocytes in Porcine Blood. Frontiers in Microbiology, 2022, 13, 822369.	3.5	5
88	Guarea kunthiana Bark Extract Enhances the Antimicrobial Activities of Human and Bovine Neutrophils. Natural Product Communications, 2016, 11, 1934578X1601100.	0.5	4
89	In vivo oxygen measurement in cerebrospinal fluid of pigs to determine physiologic and pathophysiologic oxygen values during CNS infections. BMC Neuroscience, 2021, 22, 45.	1.9	4
90	Influence of Oxygen on Function and Cholesterol Composition of Murine Bone Marrow-Derived Neutrophils. Methods in Molecular Biology, 2020, 2087, 223-233.	0.9	4

#	Article	IF	Citations
91	Ischaemic postconditioning reduces apoptosis in experimental jejunal ischaemia in horses. BMC Veterinary Research, 2021, 17, 175.	1.9	3
92	Detection of Extracellular Traps in Canine Steroid-Responsive Meningitis-Arteritis. Frontiers in Veterinary Science, 2022, 9, 863579.	2.2	3
93	A sensitive scoring system for the longitudinal clinical evaluation and prediction of lethal disease outcomes in newborn mice. Scientific Reports, 2019, 9, 5919.	3.3	2
94	Neutrophil Extracellular Trap Formation: A Single Cell Event?. Single Cell Biology, 2015, 04, .	0.2	1
95	Characterization of Oxygen Levels in an Uninfected and Infected Human Blood-Cerebrospinal-Fluid-Barrier Model. Cells, 2022, 11, 151.	4.1	1
96	Cholesterolâ€depletion in human bloodâ€derived neutrophils by methylâ€Î²â€cyclodextrin leads to the formation of neutrophil extracellular traps (1001.5). FASEB Journal, 2014, 28, 1001.5.	0.5	0
97	Iron chelating agents lead to the formation of neutrophil extracellular traps and subsequent entrapment of Staphylocccus aureus (1056.8). FASEB Journal, 2014, 28, 1056.8.	0.5	0
98	The Mechanism of Type I Interferon-Mediated Polarization of Tumor-Associated Neutrophils in Mice and Human. Blood, 2015, 126, 644-644.	1.4	0
99	Oxidative stress in canine histiocytic sarcoma cells (DH82 cells) induced by a persistent canine distemper virus infection leads to impairment of the HIF-1Î± downstream pathway in vitro. , 2020, 48, .		0