

Matthias MÃ¶rgelin

List of Publications by Year in descending order

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70
papers

2,513
citations

201674

27
h-index

223800

46
g-index

71
all docs

71
docs citations

71
times ranked

4535
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrophil Extracellular Traps Induce Trypsin Activation, Inflammation, and Tissue Damage in Mice With Severe Acute Pancreatitis. <i>Gastroenterology</i> , 2015, 149, 1920-1931.e8.	1.3	212
2	The Leucine-rich Repeat Protein PRELP Binds Perlecan and Collagens and May Function as a Basement Membrane Anchor. <i>Journal of Biological Chemistry</i> , 2002, 277, 15061-15068.	3.4	132
3	Mouse Ten-m/Odz Is a New Family of Dimeric Type II Transmembrane Proteins Expressed in Many Tissues. <i>Journal of Cell Biology</i> , 1999, 145, 563-577.	5.2	108
4	A Novel Mechanism of Bacterial Toxin Transfer within Host Blood Cell-Derived Microvesicles. <i>PLoS Pathogens</i> , 2015, 11, e1004619.	4.7	95
5	A novel mechanism for NETosis provides antimicrobial defense at the oral mucosa. <i>Blood</i> , 2015, 126, 2128-2137.	1.4	94
6	Chondroitin Sulfate Perlecan Enhances Collagen Fibril Formation. <i>Journal of Biological Chemistry</i> , 2006, 281, 33127-33139.	3.4	89
7	Extracellular hemoglobin - mediator of inflammation and cell death in the choroid plexus following preterm intraventricular hemorrhage. <i>Journal of Neuroinflammation</i> , 2014, 11, 200.	7.2	89
8	Neutrophil extracellular trap-microparticle complexes enhance thrombin generation via the intrinsic pathway of coagulation in mice. <i>Scientific Reports</i> , 2018, 8, 4020.	3.3	88
9	Syncytiotrophoblast derived extracellular vesicles transfer functional placental miRNAs to primary human endothelial cells. <i>Scientific Reports</i> , 2017, 7, 4558.	3.3	86
10	TGFB1 is secreted through an unconventional pathway dependent on the autophagic machinery and cytoskeletal regulators. <i>Autophagy</i> , 2018, 14, 465-486.	9.1	80
11	Identification of bacterial biofilm and the <i>Staphylococcus aureus</i> derived protease, staphopain, on the skin surface of patients with atopic dermatitis. <i>Scientific Reports</i> , 2017, 7, 8689.	3.3	70
12	Biofilm in group A streptococcal necrotizing soft tissue infections. <i>JCI Insight</i> , 2016, 1, e87882.	5.0	61
13	<i>Pseudomonas aeruginosa</i> elastase cleaves a C-terminal peptide from human thrombin that inhibits host inflammatory responses. <i>Nature Communications</i> , 2016, 7, 11567.	12.8	59
14	Alternative oxidase-mediated respiration prevents lethal mitochondrial cardiomyopathy. <i>EMBO Molecular Medicine</i> , 2019, 11, .	6.9	53
15	AIM1-Microglobulin Protects from Heme-Induced Placental and Renal Damage in a Pregnant Sheep Model of Preeclampsia. <i>PLoS ONE</i> , 2014, 9, e86353.	2.5	51
16	Aggregation of thrombin-derived C-terminal fragments as a previously undisclosed host defense mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4213-E4222.	7.1	49
17	High Presence of Extracellular Hemoglobin in the Periventricular White Matter Following Preterm Intraventricular Hemorrhage. <i>Frontiers in Physiology</i> , 2016, 7, 330.	2.8	47
18	The Gas6-Axl Protein Interaction Mediates Endothelial Uptake of Platelet Microparticles. <i>Journal of Biological Chemistry</i> , 2016, 291, 10586-10601.	3.4	45

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19	The Thrombin-Derived Host Defense Peptide GKY25 Inhibits Endotoxin-Induced Responses through Interactions with Lipopolysaccharide and Macrophages/Monocytes. <i>Journal of Immunology</i> , 2015, 194, 5397-5406.	0.8	44
20	Microvesicle transfer of kinin B1-receptors is a novel inflammatory mechanism in vasculitis. <i>Kidney International</i> , 2017, 91, 96-105.	5.2	42
21	The fibrillogenic L178H variant of apolipoprotein A-I forms helical fibrils. <i>Journal of Lipid Research</i> , 2012, 53, 390-398.	4.2	41
22	Syncytiotrophoblast Vesicles Show Altered micro-RNA and Haemoglobin Content after Ex-vivo Perfusion of Placentas with Haemoglobin to Mimic Preeclampsia. <i>PLoS ONE</i> , 2014, 9, e90020.	2.5	40
23	Platelet-derived microparticles regulates thrombin generation via phosphatidylserine in abdominal sepsis. <i>Journal of Cellular Physiology</i> , 2018, 233, 1051-1060.	4.1	39
24	AIM Ameliorates Preeclampsia-Like Symptoms in Placenta and Kidney Induced by Cell-Free Fetal Hemoglobin in Rabbit. <i>PLoS ONE</i> , 2015, 10, e0125499.	2.5	38
25	Targeting peptidylarginine deiminase reduces neutrophil extracellular trap formation and tissue injury in severe acute pancreatitis. <i>Journal of Cellular Physiology</i> , 2019, 234, 11850-11860.	4.1	32
26	Interaction of <i>Bacteroides fragilis</i> and <i>Bacteroides thetaiotaomicron</i> with the kallikrein-kinin system. <i>Microbiology (United Kingdom)</i> , 2011, 157, 2094-2105.	1.8	32
27	<i>Staphylococcus aureus</i> -induced clotting of plasma is an immune evasion mechanism for persistence within the fibrin network. <i>Microbiology (United Kingdom)</i> , 2015, 161, 621-627.	1.8	30
28	A Peptide of Heparin Cofactor II Inhibits Endotoxin-Mediated Shock and Invasive <i>Pseudomonas aeruginosa</i> Infection. <i>PLoS ONE</i> , 2014, 9, e102577.	2.5	28
29	Platelet Activation by <i>Streptococcus pyogenes</i> Leads to Entrapment in Platelet Aggregates, from Which Bacteria Subsequently Escape. <i>Infection and Immunity</i> , 2014, 82, 4307-4314.	2.2	28
30	Ketogenic diet attenuates hepatopathy in mouse model of respiratory chain complex III deficiency caused by a <i>Bcs1l</i> mutation. <i>Scientific Reports</i> , 2017, 7, 957.	3.3	27
31	Heterogeneity of Collagen VI Microfibrils. <i>Journal of Biological Chemistry</i> , 2016, 291, 5247-5258.	3.4	24
32	LL-37-induced host cell cytotoxicity depends on cellular expression of the globular C1q receptor (p33). <i>Biochemical Journal</i> , 2016, 473, 87-98.	3.7	24
33	Platelet-Dependent Neutrophil Function Is Dysregulated by M Protein from <i>Streptococcus pyogenes</i> . <i>Infection and Immunity</i> , 2015, 83, 3515-3525.	2.2	23
34	Biological dermal templates with native collagen scaffolds provide guiding ridges for invading cells and may promote structured dermal wound healing. <i>International Wound Journal</i> , 2020, 17, 618-630.	2.9	23
35	The Respiratory Pathogen <i>Moraxella catarrhalis</i> Targets Collagen for Maximal Adherence to Host Tissues. <i>MBio</i> , 2016, 7, e00066.	4.1	22
36	The Tyrosine Sulfate Domain of Fibromodulin Binds Collagen and Enhances Fibril Formation. <i>Journal of Biological Chemistry</i> , 2016, 291, 23744-23755.	3.4	22

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37	Human IgG Increases Virulence of <i>Streptococcus pyogenes</i> through Complement Evasion. <i>Journal of Immunology</i> , 2018, 200, 3495-3505.	0.8	22
38	Collagen VI Contains Multiple Host Defense Peptides with Potent In Vivo Activity. <i>Journal of Immunology</i> , 2018, 201, 1007-1020.	0.8	22
39	Vigilant Keratinocytes Trigger Pathogen-Associated Molecular Pattern Signaling in Response to Streptococcal M1 Protein. <i>Infection and Immunity</i> , 2015, 83, 4673-4681.	2.2	21
40	Apolipoprotein E Triggers Complement Activation in Joint Synovial Fluid of Rheumatoid Arthritis Patients by Binding C1q. <i>Journal of Immunology</i> , 2020, 204, 2779-2790.	0.8	20
41	M protein from <i>Streptococcus pyogenes</i> induces tissue factor expression and pro-coagulant activity in human monocytes. <i>Microbiology (United Kingdom)</i> , 2007, 153, 2458-2464.	1.8	20
42	Antimicrobial Effects of Helix D-derived Peptides of Human Antithrombin III. <i>Journal of Biological Chemistry</i> , 2014, 289, 29790-29800.	3.4	19
43	The cartilage-specific lectin C-type lectin domain family 3 member A (CLEC3A) enhances tissue plasminogen activator-mediated plasminogen activation. <i>Journal of Biological Chemistry</i> , 2018, 293, 203-214.	3.4	19
44	Secondary Structure Changes in ApoA-I Milano (R173C) Are Not Accompanied by a Decrease in Protein Stability or Solubility. <i>PLoS ONE</i> , 2014, 9, e96150.	2.5	19
45	Anti-endotoxic and antibacterial effects of a dermal substitute coated with host defense peptides. <i>Biomaterials</i> , 2015, 53, 415-425.	11.4	18
46	Rac1 regulates sepsis-induced formation of platelet-derived microparticles and thrombin generation. <i>Biochemical and Biophysical Research Communications</i> , 2017, 487, 887-891.	2.1	17
47	Osteopontin That Is Elevated in the Airways during COPD Impairs the Antibacterial Activity of Common Innate Antibiotics. <i>PLoS ONE</i> , 2016, 11, e0146192.	2.5	16
48	New specific HSP47 functions in collagen subfamily chaperoning. <i>FASEB Journal</i> , 2020, 34, 12040-12052.	0.5	16
49	Modulation of Hemostatic and Inflammatory Responses by <i>Leptospira</i> Spp.. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004713.	3.0	16
50	NLF20: an antimicrobial peptide with therapeutic potential against invasive <i>Pseudomonas aeruginosa</i> infection. <i>Journal of Antimicrobial Chemotherapy</i> , 2016, 71, 170-180.	3.0	15
51	SufA a bacterial enzyme that cleaves fibrinogen and blocks fibrin network formation. <i>Microbiology (United Kingdom)</i> , 2009, 155, 238-248.	1.8	15
52	Protein SIC Secreted from <i>Streptococcus pyogenes</i> Forms Complexes with Extracellular Histones That Boost Cytokine Production. <i>Frontiers in Immunology</i> , 2018, 9, 236.	4.8	14
53	Identification of pili on the surface of <i>Fingoldia magna</i> A Gram-positive anaerobic cocci. <i>Anaerobe</i> , 2014, 27, 40-49.	2.1	13
54	DNA-fragmentation is a source of bactericidal activity against <i>Pseudomonas aeruginosa</i> . <i>Biochemical Journal</i> , 2017, 474, 411-425.	3.7	13

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55	Thrombin-Derived Host-Defense Peptides Modulate Monocyte/Macrophage Inflammatory Responses to Gram-Negative Bacteria. <i>Frontiers in Immunology</i> , 2017, 8, 843.	4.8	13
56	Haemophilus influenzae surface fibril (Hsf) is a unique twisted hairpin-like trimeric autotransporter. <i>International Journal of Medical Microbiology</i> , 2015, 305, 27-37.	3.6	12
57	Saliva-Induced Clotting Captures Streptococci: Novel Roles for Coagulation and Fibrinolysis in Host Defense and Immune Evasion. <i>Infection and Immunity</i> , 2016, 84, 2813-2823.	2.2	12
58	Titanium granules pre-treated with hydrogen peroxide inhibit growth of bacteria associated with post-operative infections in spine surgery. <i>European Spine Journal</i> , 2018, 27, 2463-2468.	2.2	12
59	Osteopontin is increased in cystic fibrosis and can skew the functional balance between ELR-positive and ELR-negative CXC-chemokines. <i>Journal of Cystic Fibrosis</i> , 2015, 14, 453-463.	0.7	11
60	Collagen's primary structure determines collagen:HSP47 complex stoichiometry. <i>Journal of Biological Chemistry</i> , 2021, 297, 101169.	3.4	11
61	Vesicular Location and Transport of S100A8 and S100A9 Proteins in Monocytoid Cells. <i>PLoS ONE</i> , 2015, 10, e0145217.	2.5	10
62	Negative Staining and Transmission Electron Microscopy of Bacterial Surface Structures. <i>Methods in Molecular Biology</i> , 2017, 1535, 211-217.	0.9	10
63	An antimicrobial helix A-derived peptide of heparin cofactor II blocks endotoxin responses in vivo. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1225-1234.	2.6	9
64	Biological wound matrices with native dermis-like collagen efficiently modulate protease activity. <i>Journal of Wound Care</i> , 2018, 27, 199-209.	1.2	8
65	Midkine Is Expressed and Differentially Processed during Chronic Obstructive Pulmonary Disease Exacerbations and Ventilator-Associated Pneumonia Associated with Staphylococcus aureus Infection. <i>Molecular Medicine</i> , 2013, 19, 314-323.	4.4	7
66	The Pulmonary Extracellular Matrix Is a Bactericidal Barrier Against Haemophilus influenzae in Chronic Obstructive Pulmonary Disease (COPD): Implications for an in vivo Innate Host Defense Function of Collagen VI. <i>Frontiers in Immunology</i> , 2018, 9, 1988.	4.8	7
67	Haemophilus influenzae stores and distributes hemin by using Protein E. <i>International Journal of Medical Microbiology</i> , 2014, 304, 662-668.	3.6	4
68	Surface proteins of group G Streptococcus in different phases of growth: patterns of production and implications for the host-bacteria relationship. <i>Microbiology (United Kingdom)</i> , 2014, 160, 279-286.	1.8	2
69	Neutrophil Protease Cleavage of Von Willebrand Factor in Glomeruli – An Anti-thrombotic Mechanism in the Kidney. <i>EBioMedicine</i> , 2017, 16, 302-311.	6.1	2
70	Structural properties of functional HDL and variants of apoA. <i>FASEB Journal</i> , 2012, 26, 997.5.	0.5	0