

# Lukas Martin

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,375  
citations

394421

19  
h-index

377865

34  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1987  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Septic Heart. <i>Chest</i> , 2019, 155, 427-437.	0.8	195
2	The Ribonuclease A Superfamily in Humans: Canonical RNases as the Buttress of Innate Immunity. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1278.	4.1	125
3	Antimicrobial Peptides in Human Sepsis. <i>Frontiers in Immunology</i> , 2015, 6, 404.	4.8	85
4	The Endothelial Glycocalyx: New Diagnostic and Therapeutic Approaches in Sepsis. <i>BioMed Research International</i> , 2016, 2016, 1-8.	1.9	82
5	Telemedicine in Germany During the COVID-19 Pandemic: Multi-Professional National Survey. <i>Journal of Medical Internet Research</i> , 2020, 22, e19745.	4.3	59
6	Annexin A1 attenuates microvascular complications through restoration of Akt signalling in a murine model of type 1 diabetes. <i>Diabetologia</i> , 2018, 61, 482-495.	6.3	48
7	Perception of the 2020 SARS-CoV-2 pandemic among medical professionals in Germany: results from a nationwide online survey. <i>Emerging Microbes and Infections</i> , 2020, 9, 1590-1599.	6.5	48
8	Development and validation of a reinforcement learning algorithm to dynamically optimize mechanical ventilation in critical care. <i>Npj Digital Medicine</i> , 2021, 4, 32.	10.9	47
9	The acute respiratory distress syndrome: pathophysiology, current clinical practice, and emerging therapies. <i>Expert Review of Respiratory Medicine</i> , 2018, 12, 1021-1029.	2.5	42
10	The anti-inflammatory effect of the synthetic antimicrobial peptide 19-2.5 in a murine sepsis model: a prospective randomized study. <i>Critical Care</i> , 2013, 17, R3.	5.8	41
11	The Synthetic Antimicrobial Peptide 19-2.5 Interacts with Heparanase and Heparan Sulfate in Murine and Human Sepsis. <i>PLoS ONE</i> , 2015, 10, e0143583.	2.5	39
12	Ribonuclease 1 attenuates septic cardiomyopathy and cardiac apoptosis in a murine model of polymicrobial sepsis. <i>JCI Insight</i> , 2020, 5, .	5.0	34
13	Soluble Heparan Sulfate in Serum of Septic Shock Patients Induces Mitochondrial Dysfunction in Murine Cardiomyocytes. <i>Shock</i> , 2015, 44, 569-577.	2.1	32
14	Bruton's Tyrosine Kinase Inhibition Attenuates the Cardiac Dysfunction Caused by Cecal Ligation and Puncture in Mice. <i>Frontiers in Immunology</i> , 2019, 10, 2129.	4.8	31
15	Peptide 19-2.5 Inhibits Heparan Sulfate-Triggered Inflammation in Murine Cardiomyocytes Stimulated with Human Sepsis Serum. <i>PLoS ONE</i> , 2015, 10, e0127584.	2.5	31
16	Linagliptin Attenuates the Cardiac Dysfunction Associated With Experimental Sepsis in Mice With Pre-existing Type 2 Diabetes by Inhibiting NF- $\kappa$ B. <i>Frontiers in Immunology</i> , 2018, 9, 2996.	4.8	30
17	The synthetic antimicrobial peptide 19-2.5 attenuates septic cardiomyopathy and prevents down-regulation of SERCA2 in polymicrobial sepsis. <i>Scientific Reports</i> , 2016, 6, 37277.	3.3	29
18	Plasma adrenomedullin in critically ill patients with sepsis after major surgery: A pilot study. <i>Journal of Critical Care</i> , 2017, 38, 68-72.	2.2	25

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19	RvE1 Attenuates Polymicrobial Sepsis-Induced Cardiac Dysfunction and Enhances Bacterial Clearance. <i>Frontiers in Immunology</i> , 2020, 11, 2080.	4.8	23
20	The Human Host Defense Ribonucleases 1, 3 and 7 Are Elevated in Patients with Sepsis after Major Surgeryâ€”A Pilot Study. <i>International Journal of Molecular Sciences</i> , 2016, 17, 294.	4.1	20
21	Novel Synthetic, Host-defense Peptide Protects Against Organ Injury/Dysfunction in a Rat Model of Severe Hemorrhagic Shock. <i>Annals of Surgery</i> , 2018, 268, 348-356.	4.2	18
22	Coupling killing to neutralization: combined therapy with ceftriaxone/Pep19-2.5 counteracts sepsis in rabbits. <i>Experimental and Molecular Medicine</i> , 2017, 49, e345-e345.	7.7	17
23	The Antimalarial Drug Artesunate Attenuates Cardiac Injury in A Rodent Model of Myocardial Infarction. <i>Shock</i> , 2018, 49, 675-681.	2.1	17
24	Biomechanical assessment of remote and postinfarction scar remodeling following myocardial infarction. <i>Scientific Reports</i> , 2019, 9, 16744.	3.3	17
25	SLPI - a Biomarker of Acute Kidney Injury after Open and Endovascular Thoracoabdominal Aortic Aneurysm (TAAA) Repair. <i>Scientific Reports</i> , 2020, 10, 3453.	3.3	17
26	Prognostic Value of Bioactive Adrenomedullin in Critically Ill Patients with COVID-19 in Germany: An Observational Cohort Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 1667.	2.4	15
27	A Novel NLP-FUZZY System Prototype for Information Extraction from Medical Guidelines. , 2019, , .		14
28	The Î²-d-Endoglucuronidase Heparanase Is a Danger Molecule That Drives Systemic Inflammation and Correlates with Clinical Course after Open and Endovascular Thoracoabdominal Aortic Aneurysm Repair: Lessons Learnt from Mice and Men. <i>Frontiers in Immunology</i> , 2017, 8, 681.	4.8	13
29	Short Exposure to Ethanol Diminishes Caspase-1 and ASC Activation in Human HepG2 Cells In Vitro. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3196.	4.1	12
30	Theranostic Triggerâ€”Responsive Carbon Monoxideâ€”Generating Microbubbles. <i>Small</i> , 2022, 18, e2200924.	10.0	11
31	The synthetic antimicrobial peptide 19-2.5 attenuates mitochondrial dysfunction in cardiomyocytes stimulated with human sepsis serum. <i>Innate Immunity</i> , 2016, 22, 612-619.	2.4	10
32	Reduced post-operative DPP4 activity associated with worse patient outcome after cardiac surgery. <i>Scientific Reports</i> , 2018, 8, 11820.	3.3	10
33	Urine neutrophil gelatinaseâ€”associated lipocalin predicts outcome and renal failure in open and endovascular thoracic abdominal aortic aneurysm surgery. <i>Scientific Reports</i> , 2018, 8, 12676.	3.3	10
34	Evo-RL. , 2021, , .		10
35	Heparan Sulfate Induces Necroptosis in Murine Cardiomyocytes: A Medical-In silico Approach Combining In vitro Experiments and Machine Learning. <i>Frontiers in Immunology</i> , 2018, 9, 393.	4.8	8
36	A Deep Learning Approach for Managing Medical Consumable Materials in Intensive Care Units via Convolutional Neural Networks: Technical Proof-of-Concept Study. <i>JMIR Medical Informatics</i> , 2019, 7, e14806.	2.6	8

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37	A Synthetic Peptide Designed to Neutralize Lipopolysaccharides Attenuates Metaflammation and Diet-Induced Metabolic Derangements in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 701275.	4.8	7
38	Club cell protein 16 in sera from trauma patients modulates neutrophil migration and functionality via CXCR1 and CXCR2. <i>Molecular Medicine</i> , 2019, 25, 45.	4.4	6
39	Comparison of urine and serum neutrophil gelatinase-associated lipocalin after open and endovascular thoraco-abdominal aortic surgery and their meaning as indicators of acute kidney injury. <i>Vasa - European Journal of Vascular Medicine</i> , 2019, 48, 79-87.	1.4	6
40	Effects of the Non-Neutralizing Humanized Monoclonal Anti-Adrenomedullin Antibody Adrecizumab on Hemodynamic and Renal Injury in a Porcine Two-Hit Model. <i>Shock</i> , 2020, 54, 810-818.	2.1	6
41	Macrophage Migration Inhibitory Factor Predicts Outcome in Complex Aortic Surgery. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2374.	4.1	5
42	Mitochondrial DNA in Acute Kidney Injury: Chicken or Egg?. <i>Shock</i> , 2018, 49, 352-353.	2.1	5
43	The Role of Ribonuclease 1 and Ribonuclease Inhibitor 1 in Acute Kidney Injury after Open and Endovascular Thoracoabdominal Aortic Aneurysm Repair. <i>Journal of Clinical Medicine</i> , 2020, 9, 3292.	2.4	5
44	Inhibition of Macrophage Migration Inhibitory Factor Activity Attenuates Haemorrhagic Shock-Induced Multiple Organ Dysfunction in Rats. <i>Frontiers in Immunology</i> , 2022, 13, 886421.	4.8	5
45	Geriatric Polytraumaâ€™ Cardiovascular and Immunologic Response in a Murine Two-Hit Model of Trauma. <i>Journal of Surgical Research</i> , 2019, 241, 87-94.	1.6	4
46	Editorial: Translational Insights Into Mechanisms and Therapy of Organ Dysfunction in Sepsis and Trauma. <i>Frontiers in Immunology</i> , 2020, 11, 1987.	4.8	4
47	An Adaptive Learning Approach To Parameter Estimation For Hybrid Petri Nets In Systems Biology. , 2018, , .		3
48	A Machine Learning Approach for the Classification of Disease Risks in Time Series. , 2020, , .		3
49	Analyzing Medical Data withâ€™Process Mining: A COVID-19 Case Study. <i>Lecture Notes in Business Information Processing</i> , 2022, , 39-44.	1.0	3
50	Effect of Long-Term Polytrauma on Ventilator-Induced Diaphragmatic Dysfunction in a Piglet Model. <i>Shock</i> , 2019, 52, 443-448.	2.1	2
51	Incremental Parameter Estimation of Stochastic State-Based Models. , 2021, , .		2
52	Increase of urinary TIMP-2 and IGFBP7 as potential predictor of acute kidney injury requiring renal replacement therapy and patientsâ€™ outcome following complex endovascular and open thoracic abdominal aortic aneurysm surgery â€™ a prospective observational study. <i>Vasa - European Journal of Vascular Medicine</i> , 2021, 50, 101-109.	1.4	2
53	Machine Learning in future intensive careâ€™Classification of stochastic Petri Nets via continuous-time Markov chains. , 2019, , 259-273.		1
54	Likelihood-Based Adaptive Learning in Stochastic State-Based Models. <i>IEEE Signal Processing Letters</i> , 2019, 26, 1031-1035.	3.6	1

#	ARTICLE	IF	CITATIONS
55	Response. Chest, 2019, 156, 636-637.	0.8	0
56	Response. Chest, 2019, 155, 647-648.	0.8	0