

# Ruben Zamora

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,612  
citations

331670

21  
h-index

330143

37  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1436  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dynamic View of Trauma/Hemorrhage-Induced Inflammation in Mice: Principal Drivers and Networks. PLoS ONE, 2011, 6, e19424.	2.5	102
2	Central Role for MCP-1/CCL2 in Injury-Induced Inflammation Revealed by In Vitro, In Silico, and Clinical Studies. PLoS ONE, 2013, 8, e79804.	2.5	91
3	Insights into the Role of Chemokines, Damage-Associated Molecular Patterns, and Lymphocyte-Derived Mediators from Computational Models of Trauma-Induced Inflammation. Antioxidants and Redox Signaling, 2015, 23, 1370-1387.	5.4	82
4	Translational Systems Approaches to the Biology of Inflammation and Healing. Immunopharmacology and Immunotoxicology, 2010, 32, 181-195.	2.4	78
5	Computational Analysis Supports an Early, Type 17 Cell-Associated Divergence of Blunt Trauma Survival and Mortality*. Critical Care Medicine, 2016, 44, e1074-e1081.	0.9	76
6	A two-compartment mathematical model of endotoxin-induced inflammatory and physiologic alterations in swine*. Critical Care Medicine, 2012, 40, 1052-1063.	0.9	72
7	Trauma in silico: Individual-specific mathematical models and virtual clinical populations. Science Translational Medicine, 2015, 7, 285ra61.	12.4	66
8	Impact of Injury Severity on Dynamic Inflammation Networks Following Blunt Trauma. Shock, 2015, 44, 101-109.	2.1	61
9	A DNA microarray study of nitric oxide-induced genes in mouse hepatocytes: implications for hepatic heme oxygenase-1 expression in ischemia/reperfusion. Nitric Oxide - Biology and Chemistry, 2002, 7, 165-186.	2.7	60
10	Inducible Protein-10, a Potential Driver of Neurally Controlled Interleukin-10 and Morbidity in Human Blunt Trauma*. Critical Care Medicine, 2014, 42, 1487-1497.	0.9	57
11	Prehospital Hypotension Is Associated With Altered Inflammation Dynamics and Worse Outcomes Following Blunt Trauma in Humans*. Critical Care Medicine, 2015, 43, 1395-1404.	0.9	57
12	Individual-specific principal component analysis of circulating inflammatory mediators predicts early organ dysfunction in trauma patients. Journal of Critical Care, 2016, 36, 146-153.	2.2	55
13	Hemoabsorption Reprograms Inflammation in Experimental Gram-negative Septic Peritonitis: Insights from In Vivo and In Silico Studies. Molecular Medicine, 2012, 18, 1366-1374.	4.4	52
14	MATHEMATICAL MODELING OF POSTHEMORRHAGE INFLAMMATION IN MICE. Shock, 2009, 32, 172-178.	2.1	49
15	Injury-induced MRP8/MRP14 stimulates IP-10/CXCL10 in monocytes/macrophages. FASEB Journal, 2015, 29, 250-262.	0.5	48
16	Data-Driven Modeling for Precision Medicine in Pediatric Acute Liver Failure. Molecular Medicine, 2016, 22, 821-829.	4.4	45
17	Expression and subcellular localization of BNIP3 in hypoxic hepatocytes and liver stress. American Journal of Physiology - Renal Physiology, 2009, 296, G499-G509.	3.4	36
18	Nitrosative stress in an animal model of necrotizing enterocolitis. Free Radical Biology and Medicine, 2005, 39, 1428-1437.	2.9	28

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19	An Enrichment Strategy Yields Seven Novel Single Nucleotide Polymorphisms Associated With Mortality and Altered Th17 Responses Following Blunt Trauma. <i>Shock</i> , 2018, 49, 259-268.	2.1	27
20	Computational evidence for an early, amplified systemic inflammation program in polytrauma patients with severe extremity injuries. <i>PLoS ONE</i> , 2019, 14, e0217577.	2.5	26
21	Computational Analysis Supports IL-17A as a Central Driver of Neutrophil Extracellular Trap-Mediated Injury in Liver Ischemia Reperfusion. <i>Journal of Immunology</i> , 2019, 202, 268-277.	0.8	25
22	Intestinal and hepatic expression of BNIP3 in necrotizing enterocolitis: regulation by nitric oxide and peroxynitrite. <i>American Journal of Physiology - Renal Physiology</i> , 2005, 289, G822-G830.	3.4	23
23	Exercise Training Decreases Hepatic Injury and Metastases Through Changes in Immune Response to Liver Ischemia/Reperfusion in Mice. <i>Hepatology</i> , 2021, 73, 2494-2509.	7.3	19
24	A simple, rapid, and convenient Luminex <sup>®</sup> -compatible method of tissue isolation. <i>Journal of Clinical Laboratory Analysis</i> , 2008, 22, 278-281.	2.1	18
25	Combined In Silico, In Vivo, and In Vitro Studies Shed Insights into the Acute Inflammatory Response in Middle-Aged Mice. <i>PLoS ONE</i> , 2013, 8, e67419.	2.5	18
26	A computational analysis of dynamic, multi-organ inflammatory crosstalk induced by endotoxin in mice. <i>PLoS Computational Biology</i> , 2018, 14, e1006582.	3.2	18
27	Inflammation and disease: Modelling and modulation of the inflammatory response to alleviate critical illness. <i>Current Opinion in Systems Biology</i> , 2018, 12, 22-29.	2.6	18
28	HMGB1 is a Central Driver of Dynamic Pro-inflammatory Networks in Pediatric Acute Liver Failure induced by Acetaminophen. <i>Scientific Reports</i> , 2019, 9, 5971.	3.3	18
29	Analysis of the Plasma Metabolome after Trauma, Novel Circulating Sphingolipid Signatures, and In-Hospital Outcomes. <i>Journal of the American College of Surgeons</i> , 2021, 232, 276-287e1.	0.5	17
30	Impact of chemically-modified tetracycline 3 on intertwined physiological, biochemical, and inflammatory networks in porcine sepsis/ARDS. <i>International Journal of Burns and Trauma</i> , 2015, 5, 22-35.	0.2	17
31	Toll-Like Receptor 4 on both Myeloid Cells and Dendritic Cells Is Required for Systemic Inflammation and Organ Damage after Hemorrhagic Shock with Tissue Trauma in Mice. <i>Frontiers in Immunology</i> , 2017, 8, 1672.	4.8	15
32	Suppressed networks of inflammatory mediators characterize chronic venous insufficiency. <i>Journal of Vascular Surgery: Venous and Lymphatic Disorders</i> , 2018, 6, 358-366.	1.6	15
33	Hepatic Encephalopathy in Children With Acute Liver Failure. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2019, 69, 108-115.	1.8	14
34	Spatiotemporally specific roles of TLR4, TNF, and IL-17A in murine endotoxin-induced inflammation inferred from analysis of dynamic networks. <i>Molecular Medicine</i> , 2021, 27, 65.	4.4	14
35	Dynamic Profiling: Modeling the Dynamics of Inflammation and Predicting Outcomes in Traumatic Brain Injury Patients. <i>Frontiers in Pharmacology</i> , 2016, 7, 383.	3.5	13
36	Machine Perfusion of Porcine Livers with Oxygen-Carrying Solution Results in Reprogramming of Dynamic Inflammation Networks. <i>Frontiers in Pharmacology</i> , 2016, 7, 413.	3.5	12

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37	Differential inflammatory networks distinguish responses to bone marrow-derived versus adipose-derived mesenchymal stem cell therapies in vascularized composite allotransplantation. <i>Journal of Trauma and Acute Care Surgery</i> , 2017, 83, S50-S58.	2.1	12
38	Association Between Inflammatory Pathways and Phenotypes of Pulmonary Dysfunction Using Cluster Analysis in Persons Living With HIV and HIV-Uninfected Individuals. <i>Journal of Acquired Immune Deficiency Syndromes</i> (1999), 2020, 83, 189-196.	2.1	12
39	Computational Derivation of Core, Dynamic Human Blunt Trauma Inflammatory Endotypes. <i>Frontiers in Immunology</i> , 2020, 11, 589304.	4.8	12
40	A putative "chemokine switch" that regulates systemic acute inflammation in humans. <i>Scientific Reports</i> , 2021, 11, 9703.	3.3	12
41	A Biohybrid Device for the Systemic Control of Acute Inflammation. <i>Disruptive Science and Technology</i> , 2012, 1, 20-27.	1.0	11
42	MPPED2 Polymorphism Is Associated With Altered Systemic Inflammation and Adverse Trauma Outcomes. <i>Frontiers in Genetics</i> , 2019, 10, 1115.	2.3	11
43	Diurnal Variation in Systemic Acute Inflammation and Clinical Outcomes Following Severe Blunt Trauma. <i>Frontiers in Immunology</i> , 2019, 10, 2699.	4.8	10
44	IRF3 Signaling within the Mouse Stroma Influences Sepsis Pathogenesis. <i>Journal of Immunology</i> , 2021, 206, 398-409.	0.8	8
45	The Use of Multiplexing to Identify Cytokine and Chemokine Networks in the Immune-Inflammatory Response to Trauma. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 1393-1406.	5.4	8
46	Early dynamic orchestration of immunologic mediators identifies multiply injured patients who are tolerant or sensitive to hemorrhage. <i>Journal of Trauma and Acute Care Surgery</i> , 2021, 90, 441-450.	2.1	8
47	Inferring Tissue-Specific, TLR4-Dependent Type 17 Immune Interactions in Experimental Trauma/Hemorrhagic Shock and Resuscitation Using Computational Modeling. <i>Frontiers in Immunology</i> , 0, 13, .	4.8	8
48	Insights into the association between coagulopathy and inflammation: abnormal clot mechanics are a warning of immunologic dysregulation following major injury. <i>Annals of Translational Medicine</i> , 2020, 8, 1576-1576.	1.7	7
49	Transforming growth factor- $\beta^2$ in critical illness. <i>Critical Care Medicine</i> , 2005, 33, S478-S481.	0.9	6
50	Cardiac Arrest Disrupts Caspase-1 and Patterns of Inflammatory Mediators Differently in Skin and Muscle Following Localized Tissue Injury in Rats: Insights from Data-Driven Modeling. <i>Frontiers in Immunology</i> , 2015, 6, 587.	4.8	6
51	An Aging-Related Single-Nucleotide Polymorphism is Associated With Altered Clinical Outcomes and Distinct Inflammatory Profiles in Aged Blunt Trauma Patients. <i>Shock</i> , 2020, 53, 146-155.	2.1	6
52	Identification of a Novel Pathway of Transforming Growth Factor- $\beta^2$ Regulation by Extracellular NAD <sup>+</sup> in Mouse Macrophages. <i>Journal of Biological Chemistry</i> , 2012, 287, 31003-31014.	3.4	5
53	The Effects of Tacrolimus on Tissue-Specific, Protein-Level Inflammatory Networks in Vascularized Composite Allotransplantation. <i>Frontiers in Immunology</i> , 2021, 12, 591154.	4.8	5
54	"Thinking" vs. "Talking": Differential Autocrine Inflammatory Networks in Isolated Primary Hepatic Stellate Cells and Hepatocytes under Hypoxic Stress. <i>Frontiers in Physiology</i> , 2017, 8, 1104.	2.8	4

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55	Dynamics of Systemic Inflammation as a Function of Developmental Stage in Pediatric Acute Liver Failure. <i>Frontiers in Immunology</i> , 2020, 11, 610861.	4.8	4
56	Decoding the secreted inflammatory response of primary human hepatocytes to hypoxic stress in vitro. <i>Annals of Translational Medicine</i> , 2019, 7, 371-371.	1.7	3
57	Dynamic Data-Driven Modeling for Ex Vivo Data Analysis: Insights into Liver Transplantation and Pathobiology. <i>Computation</i> , 2017, 5, 46.	2.0	2
58	Machine learning and mechanistic computational modeling of inflammation as tools for designing immunomodulatory biomaterials. , 2021, , 251-272.		2
59	Inflammatory signals and network connections implicate cell-mediated immunity in chronic venous insufficiency. <i>Annals of Translational Medicine</i> , 2021, 9, 1643-1643.	1.7	1