

Holger K Eltzschig

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

16,561
citations

25034

57
h-index

17105

122
g-index

128
all docs

128
docs citations

128
times ranked

20674
citing authors

#	ARTICLE	IF	CITATIONS
1	Ischemia and reperfusionâ€”from mechanism to translation. <i>Nature Medicine</i> , 2011, 17, 1391-1401.	30.7	2,524
2	Hypoxia and Inflammation. <i>New England Journal of Medicine</i> , 2011, 364, 656-665.	27.0	1,692
3	Nucleotide signalling during inflammation. <i>Nature</i> , 2014, 509, 310-317.	27.8	750
4	Purinergic Signaling during Inflammation. <i>New England Journal of Medicine</i> , 2012, 367, 2322-2333.	27.0	579
5	Ecto-5â€²-nucleotidase (CD73) regulation by hypoxia-inducible factor-1 mediates permeability changes in intestinal epithelia. <i>Journal of Clinical Investigation</i> , 2002, 110, 993-1002.	8.2	569
6	Ecto-5â€²-nucleotidase (CD73) regulation by hypoxia-inducible factor-1 mediates permeability changes in intestinal epithelia. <i>Journal of Clinical Investigation</i> , 2002, 110, 993-1002.	8.2	429
7	Cardioprotection by Ecto-5â€²-Nucleotidase (CD73) and A2B Adenosine Receptors. <i>Circulation</i> , 2007, 115, 1581-1590.	1.6	412
8	Hypoxia-Inducible Factor-1 Is Central to Cardioprotection. <i>Circulation</i> , 2008, 118, 166-175.	1.6	372
9	Hypoxia-inducible factorâ€”dependent induction of netrin-1 dampens inflammation caused by hypoxia. <i>Nature Immunology</i> , 2009, 10, 195-202.	14.5	369
10	ATP Release From Activated Neutrophils Occurs via Connexin 43 and Modulates Adenosine-Dependent Endothelial Cell Function. <i>Circulation Research</i> , 2006, 99, 1100-1108.	4.5	314
11	Targeting hypoxia signalling for the treatment of ischaemic and inflammatory diseases. <i>Nature Reviews Drug Discovery</i> , 2014, 13, 852-869.	46.4	291
12	Myeloid-derived miR-223 regulates intestinal inflammation via repression of the NLRP3 inflammasome. <i>Journal of Experimental Medicine</i> , 2017, 214, 1737-1752.	8.5	289
13	Adora2b-elicited Per2 stabilization promotes a HIF-dependent metabolic switch crucial for myocardial adaptation to ischemia. <i>Nature Medicine</i> , 2012, 18, 774-782.	30.7	278
14	A2B adenosine receptor dampens hypoxia-induced vascular leak. <i>Blood</i> , 2008, 111, 2024-2035.	1.4	265
15	A2B adenosine receptor signaling attenuates acute lung injury by enhancing alveolar fluid clearance in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 3301-15.	8.2	259
16	Subchondral bone osteoclasts induce sensory innervation and osteoarthritis pain. <i>Journal of Clinical Investigation</i> , 2019, 129, 1076-1093.	8.2	239
17	The polymeric mucin Muc5ac is required for allergic airway hyperreactivity. <i>Nature Communications</i> , 2015, 6, 6281.	12.8	223
18	Hypoxia signaling in human diseases and therapeutic targets. <i>Experimental and Molecular Medicine</i> , 2019, 51, 1-13.	7.7	218

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19	Adenosine: An Old Drug Newly Discovered. <i>Anesthesiology</i> , 2009, 111, 904-915.	2.5	214
20	Central role of Sp1-regulated CD39 in hypoxia/ischemia protection. <i>Blood</i> , 2009, 113, 224-232.	1.4	196
21	CD39/Ectonucleoside Triphosphate Diphosphohydrolase 1 Provides Myocardial Protection During Cardiac Ischemia/Reperfusion Injury. <i>Circulation</i> , 2007, 116, 1784-1794.	1.6	192
22	HIF-1 α -dependent repression of adenosine kinase attenuates hypoxia-induced vascular leak. <i>Blood</i> , 2008, 111, 5571-5580.	1.4	186
23	Circadian rhythm as a therapeutic target. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 287-307.	46.4	177
24	Hypoxia and inflammation are two sides of the same coin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18351-18352.	7.1	168
25	Adventitial Fibroblasts Induce a Distinct Proinflammatory/Profibrotic Macrophage Phenotype in Pulmonary Hypertension. <i>Journal of Immunology</i> , 2014, 193, 597-609.	0.8	162
26	Neutrophil transfer of <i>miR-223</i> to lung epithelial cells dampens acute lung injury in mice. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	162
27	Signaling through the A2B Adenosine Receptor Dampens Endotoxin-Induced Acute Lung Injury. <i>Journal of Immunology</i> , 2010, 184, 5271-5279.	0.8	154
28	Netrin1 Produced by Neural Progenitors, Not Floor Plate Cells, Is Required for Axon Guidance in the Spinal Cord. <i>Neuron</i> , 2017, 94, 790-799.e3.	8.1	146
29	HIF1A Reduces Acute Lung Injury by Optimizing Carbohydrate Metabolism in the Alveolar Epithelium. <i>PLoS Biology</i> , 2013, 11, e1001665.	5.6	138
30	MicroRNA miR-223 as regulator of innate immunity. <i>Journal of Leukocyte Biology</i> , 2018, 104, 515-524.	3.3	127
31	Systematic evaluation of a novel model for cardiac ischemic preconditioning in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H2533-H2540.	3.2	123
32	Extracellular nucleotide and nucleoside signaling in vascular and blood disease. <i>Blood</i> , 2014, 124, 1029-1037.	1.4	119
33	Beneficial Role of Erythrocyte Adenosine A2B Receptor-Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia. <i>Circulation</i> , 2016, 134, 405-421.	1.6	115
34	Neutrophils as Sources of Extracellular Nucleotides: Functional Consequences at the Vascular Interface. <i>Trends in Cardiovascular Medicine</i> , 2008, 18, 103-107.	4.9	110
35	Macrophage-derived netrin-1 promotes abdominal aortic aneurysm formation by activating MMP3 in vascular smooth muscle cells. <i>Nature Communications</i> , 2018, 9, 5022.	12.8	109
36	Selective induction of endothelial P2Y6 nucleotide receptor promotes vascular inflammation. <i>Blood</i> , 2011, 117, 2548-2555.	1.4	106

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37	Neuronal guidance molecule netrin-1 attenuates inflammatory cell trafficking during acute experimental colitis. <i>Gut</i> , 2012, 61, 695-705.	12.1	106
38	Hypoxia-inducible factors as molecular targets for liver diseases. <i>Journal of Molecular Medicine</i> , 2016, 94, 613-627.	3.9	104
39	Eosinophil-mediated signalling attenuates inflammatory responses in experimental colitis. <i>Gut</i> , 2015, 64, 1236-1247.	12.1	103
40	Identification of Hypoxia-Inducible Factor HIF-1A as Transcriptional Regulator of the A2B Adenosine Receptor during Acute Lung Injury. <i>Journal of Immunology</i> , 2014, 192, 1249-1256.	0.8	101
41	Transcriptional control of adenosine signaling by hypoxia-inducible transcription factors during ischemic or inflammatory disease. <i>Journal of Molecular Medicine</i> , 2013, 91, 183-193.	3.9	100
42	Attenuating myocardial ischemia by targeting A2B adenosine receptors. <i>Trends in Molecular Medicine</i> , 2013, 19, 345-354.	6.7	100
43	Hypoxia-inducible factor 2-alpha-dependent induction of amphiregulin dampens myocardial ischemia-reperfusion injury. <i>Nature Communications</i> , 2018, 9, 816.	12.8	100
44	CD73 ⁺ regulatory T cells contribute to adenosine-mediated resolution of acute lung injury. <i>FASEB Journal</i> , 2013, 27, 2207-2219.	0.5	99
45	Tissue-Resident NK Cells Mediate Ischemic Kidney Injury and Are Not Depleted by Anti-Asialo-GM1 Antibody. <i>Journal of Immunology</i> , 2015, 195, 4973-4985.	0.8	97
46	Adora2b Adenosine Receptor Engagement Enhances Regulatory T Cell Abundance during Endotoxin-Induced Pulmonary Inflammation. <i>PLoS ONE</i> , 2012, 7, e32416.	2.5	95
47	Crosstalk between the equilibrative nucleoside transporter ENT2 and alveolar Adora2b adenosine receptors dampens acute lung injury. <i>FASEB Journal</i> , 2013, 27, 3078-3089.	0.5	95
48	Nucleotide Metabolism and Cell-Cell Interactions. , 2006, 341, 73-88.		93
49	The hypoxia-adenosine link during inflammation. <i>Journal of Applied Physiology</i> , 2017, 123, 1303-1320.	2.5	90
50	Selective Deletion of the A1 Adenosine Receptor Abolishes Heart-Rate Slowing Effects of Intravascular Adenosine In Vivo. <i>PLoS ONE</i> , 2009, 4, e6784.	2.5	89
51	Extracellular Adenosine: A Safety Signal That Dampens Hypoxia-Induced Inflammation During Ischemia. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 2221-2234.	5.4	83
52	Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. <i>Nature Communications</i> , 2017, 8, 14108.	12.8	81
53	Purinergic Signaling in Pulmonary Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 1633.	4.8	81
54	Alveolar Epithelial A2B Adenosine Receptors in Pulmonary Protection during Acute Lung Injury. <i>Journal of Immunology</i> , 2015, 195, 1815-1824.	0.8	80

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55	Adenosine/A2B Receptor Signaling Ameliorates the Effects of Aging and Counteracts Obesity. <i>Cell Metabolism</i> , 2020, 32, 56-70.e7.	16.2	77
56	Netrin-1 controls sympathetic arterial innervation. <i>Journal of Clinical Investigation</i> , 2014, 124, 3230-3240.	8.2	74
57	Deletion of ADORA2B from myeloid cells dampens lung fibrosis and pulmonary hypertension. <i>FASEB Journal</i> , 2015, 29, 50-60.	0.5	66
58	Purinergic Signaling During Immune Cell Trafficking. <i>Trends in Immunology</i> , 2016, 37, 399-411.	6.8	64
59	Targeting Hypoxia Signaling for Perioperative Organ Injury. <i>Anesthesia and Analgesia</i> , 2018, 126, 308-321.	2.2	64
60	HIF1A upregulates the ADORA2B receptor on alternatively activated macrophages and contributes to pulmonary fibrosis. <i>FASEB Journal</i> , 2017, 31, 4745-4758.	0.5	63
61	Sustained Elevated Adenosine via ADORA2B Promotes Chronic Pain through Neuro-immune Interaction. <i>Cell Reports</i> , 2016, 16, 106-119.	6.4	61
62	A2B Adenosine Receptor Induces Protective Antihelminth Type 2 Immune Responses. <i>Cell Host and Microbe</i> , 2014, 15, 339-350.	11.0	59
63	Elevated Endothelial Hypoxia-Inducible Factor-1 α Contributes to Glomerular Injury and Promotes Hypertensive Chronic Kidney Disease. <i>Hypertension</i> , 2015, 66, 75-84.	2.7	59
64	Apoptotic brown adipocytes enhance energy expenditure via extracellular inosine. <i>Nature</i> , 2022, 609, 361-368.	27.8	53
65	Assessment of a multimodal analgesia protocol to allow the implementation of enhanced recovery after cardiac surgery: Retrospective analysis of patient outcomes. <i>Journal of Clinical Anesthesia</i> , 2019, 54, 76-80.	1.6	52
66	Targeting the A2B adenosine receptor during gastrointestinal ischemia and inflammation. <i>Expert Opinion on Therapeutic Targets</i> , 2009, 13, 1267-1277.	3.4	51
67	Coordination of ENT2-dependent adenosine transport and signaling dampens mucosal inflammation. <i>JCI Insight</i> , 2018, 3, .	5.0	51
68	Hypoxia-inducible Factor-1 α Reprograms Liver Macrophages to Protect Against Acute Liver Injury Through the Production of Interleukin-6. <i>Hepatology</i> , 2020, 71, 2105-2117.	7.3	50
69	Partial Netrin-1 Deficiency Aggravates Acute Kidney Injury. <i>PLoS ONE</i> , 2011, 6, e14812.	2.5	48
70	Hypoxia signaling during acute lung injury. <i>Journal of Applied Physiology</i> , 2015, 119, 1157-1163.	2.5	48
71	The Hypoxia-Adenosine Link during Intestinal Inflammation. <i>Journal of Immunology</i> , 2018, 200, 897-907.	0.8	48
72	Short-Term Hypoxia Dampens Inflammation in vivo via Enhanced Adenosine Release and Adenosine 2B Receptor Stimulation. <i>EBioMedicine</i> , 2018, 33, 144-156.	6.1	47

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73	MicroRNAs in mucosal inflammation. <i>Journal of Molecular Medicine</i> , 2017, 95, 935-949.	3.9	45
74	Strategies to Modulate MicroRNA Functions for the Treatment of Cancer or Organ Injury. <i>Pharmacological Reviews</i> , 2020, 72, 639-667.	16.0	45
75	C1P Attenuates Lipopolysaccharide-Induced Acute Lung Injury by Preventing NF- κ B Activation in Neutrophils. <i>Journal of Immunology</i> , 2016, 196, 2319-2326.	0.8	43
76	Altered Hypoxic-Adenosine Axis and Metabolism in Group III Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 54, 574-583.	2.9	41
77	Extracellular adenosine levels are associated with the progression and exacerbation of pulmonary fibrosis. <i>FASEB Journal</i> , 2016, 30, 874-883.	0.5	38
78	Differential Tissue-Specific Function of Adora2b in Cardioprotection. <i>Journal of Immunology</i> , 2015, 195, 1732-1743.	0.8	34
79	A model-specific role of microRNA-223 as a mediator of kidney injury during experimental sepsis. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F553-F559.	2.7	34
80	Hypoxia-inducible factor-1 α -dependent induction of miR122 enhances hepatic ischemia tolerance. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	33
81	Rescue transoesophageal echocardiography for refractory haemodynamic instability during transvenous lead extraction. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 926-932.	1.2	32
82	Adenosine at the Interphase of Hypoxia and Inflammation in Lung Injury. <i>Frontiers in Immunology</i> , 2020, 11, 604944.	4.8	32
83	The Role of MicroRNAs in Acute Respiratory Distress Syndrome and Sepsis, From Targets to Therapies: A Narrative Review. <i>Anesthesia and Analgesia</i> , 2020, 131, 1471-1484.	2.2	31
84	Eosinophils attenuate hepatic ischemia-reperfusion injury in mice through ST2-dependent IL-13 production. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	31
85	PMN-derived netrin-1 attenuates cardiac ischemia-reperfusion injury via myeloid ADORA2B signaling. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	30
86	MicroRNAs Modulate the Purinergic Signaling Network. <i>Trends in Molecular Medicine</i> , 2016, 22, 905-918.	6.7	29
87	Netrin-1 guides inflammatory cell migration to control mucosal immune responses during intestinal inflammation. <i>Tissue Barriers</i> , 2013, 1, e24957.	3.2	27
88	Stimulation of A2B adenosine receptors protects against trauma-induced hemorrhagic shock-induced lung injury. <i>Purinergic Signalling</i> , 2013, 9, 427-432.	2.2	26
89	Transcription-independent Induction of ERBB1 through Hypoxia-inducible Factor 2A Provides Cardioprotection during Ischemia and Reperfusion. <i>Anesthesiology</i> , 2020, 132, 763-780.	2.5	26
90	Erythrocyte purinergic signaling components underlie hypoxia adaptation. <i>Journal of Applied Physiology</i> , 2017, 123, 951-956.	2.5	25

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91	NK cells regulate CXCR2+ neutrophil recruitment during acute lung injury. <i>Journal of Leukocyte Biology</i> , 2017, 101, 471-480.	3.3	24
92	Capturing the multifactorial nature of ARDS - "Two-hit" approach to model murine acute lung injury. <i>Physiological Reports</i> , 2018, 6, e13648.	1.7	24
93	Hypoxia-inducible factor 1 α (HIF1 α) is a major determinant in the enhanced function of muscle-derived progenitors from MRL/Mpj mice. <i>FASEB Journal</i> , 2019, 33, 8321-8334.	0.5	24
94	Cigarette smoke-induced reduction of C1q promotes emphysema. <i>JCI Insight</i> , 2019, 4, .	5.0	23
95	Use of a Hanging Weight System for Coronary Artery Occlusion in Mice. <i>Journal of Visualized Experiments</i> , 2011, .	0.3	21
96	HIF-2 α in Resting Macrophages Tempers Mitochondrial Reactive Oxygen Species To Selectively Repress MARCO-Dependent Phagocytosis. <i>Journal of Immunology</i> , 2016, 197, 3639-3649.	0.8	21
97	Switching-Off Adora2b in Vascular Smooth Muscle Cells Halts the Development of Pulmonary Hypertension. <i>Frontiers in Physiology</i> , 2018, 9, 555.	2.8	21
98	Characterization of articular cartilage homeostasis and the mechanism of superior cartilage regeneration of MRL/Mpj mice. <i>FASEB Journal</i> , 2019, 33, 8809-8821.	0.5	20
99	Targeting alveolar-specific succinate dehydrogenase A attenuates pulmonary inflammation during acute lung injury. <i>FASEB Journal</i> , 2021, 35, e21468.	0.5	20
100	<p>Impact of serratus plane block on pain scores and incentive spirometry volumes after chest trauma</p>. <i>Local and Regional Anesthesia</i> , 2019, Volume 12, 59-66.	1.3	18
101	Enhancing Extracellular Adenosine Levels Restores Barrier Function in Acute Lung Injury Through Expression of Focal Adhesion Proteins. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 636678.	3.5	17
102	Disease Mechanisms of Perioperative Organ Injury. <i>Anesthesia and Analgesia</i> , 2020, 131, 1730-1750.	2.2	16
103	Detrimental ELAVL-1/HuR-dependent GSK3 β mRNA stabilization impairs resolution in acute respiratory distress syndrome. <i>PLoS ONE</i> , 2017, 12, e0172116.	2.5	16
104	SARS-CoV-2 Infection: Host Response, Immunity, and Therapeutic Targets. <i>Inflammation</i> , 2022, 45, 1430-1449.	3.8	16
105	Hypoxia-inducible factor-dependent induction of myeloid-derived netrin-1 attenuates natural killer cell infiltration during endotoxin-induced lung injury. <i>FASEB Journal</i> , 2021, 35, e21334.	0.5	15
106	Diversity and Inclusion in Anesthesiology. <i>Anesthesia and Analgesia</i> , 2022, 134, 1166-1174.	2.2	15
107	Restoration of Megalin-Mediated Clearance of Alveolar Protein as a Novel Therapeutic Approach for Acute Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 589-602.	2.9	14
108	Elevated ecto-5 β -nucleotidase: a missing pathogenic factor and new therapeutic target for sickle cell disease. <i>Blood Advances</i> , 2018, 2, 1957-1968.	5.2	14

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109	Markers of Accelerated Skeletal Muscle Regenerative Response in Murphy Roths Large Mice: Characteristics of Muscle Progenitor Cells and Circulating Factors. <i>Stem Cells</i> , 2019, 37, 357-367.	3.2	14
110	Mst1/2 kinases restrain transformation in a novel transgenic model of Ras driven non-small cell lung cancer. <i>Oncogene</i> , 2020, 39, 1152-1164.	5.9	12
111	Sphingosine-1-phosphate receptor signaling during acute kidney injury: the tissue is the issue. <i>Kidney International</i> , 2014, 85, 733-735.	5.2	10
112	Role of Micro-RNA for Pain After Surgery. <i>Anesthesia and Analgesia</i> , 2020, 130, 1638-1652.	2.2	9
113	Patient-derived iPSCs link elevated mitochondrial respiratory complex I function to osteosarcoma in Rothmund-Thomson syndrome. <i>PLoS Genetics</i> , 2021, 17, e1009971.	3.5	9
114	Alternative adenosine Receptor activation: The netrin-Adora2b link. <i>Frontiers in Pharmacology</i> , 0, 13, .	3.5	9
115	The Devil Is in the Detail. <i>Anesthesiology</i> , 2017, 126, 763-765.	2.5	8
116	Novel therapeutic concepts for inflammatory bowel diseaseâ€”from bench to bedside. <i>Journal of Molecular Medicine</i> , 2017, 95, 899-903.	3.9	7
117	Purinergic and Adenosinergic Signaling in Pancreatobiliary Diseases. <i>Frontiers in Physiology</i> , 2022, 13, 849258.	2.8	7
118	Hydroxylation-independent HIF-1 α stabilization through PKA: A new paradigm for hypoxia signaling. <i>Science Signaling</i> , 2016, 9, fs11.	3.6	6
119	Characterization of a Murine Model System to Study MicroRNA-147 During Inflammatory Organ Injury. <i>Inflammation</i> , 2021, 44, 1426-1440.	3.8	6
120	Neuronal modulation of hepatic lipid accumulation induced by binge-like drinking. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 318, E655-E666.	3.5	5
121	Incidence and predictive factors of acute kidney injury following off-pump lung transplantation. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2021, , .	1.3	3
122	Neutrophil Intercellular Communication in Acute Lung Injury: Emerging Roles of Microparticles and Gap Junctions. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 0, , .	2.9	2
123	Adenosine Is A Common Factor Regulating Erythrocyte 2,3-Bisphosphate Induction In Normal Individuals At High Altitude and In Patients With Sickle Cell Disease. <i>Blood</i> , 2013, 122, 952-952.	1.4	2
124	Leadership roles and initiatives for diversity and inclusion in academic anesthesiology departments. <i>Journal of the National Medical Association</i> , 2022, 114, 147-155.	0.8	2
125	A2B adenosine receptor signaling influences epithelial cell-leukocyte crosstalk to induce tissue protection in acute and chronic experimental colitis. <i>Inflammatory Bowel Diseases</i> , 2011, 17, S70.	1.9	1
126	Enhancement of purinergic signaling mediates protection during acute experimental colitis. <i>Inflammatory Bowel Diseases</i> , 2011, 17, S73.	1.9	0