

Karl-Heinz Krause

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6718273/publications.pdf>

Version: 2024-02-01

238
papers

28,754
citations

5558

82
h-index

5519

163
g-index

249
all docs

249
docs citations

249
times ranked

32140
citing authors

#	ARTICLE	IF	CITATIONS
1	The NOX Family of ROS-Generating NADPH Oxidases: Physiology and Pathophysiology. <i>Physiological Reviews</i> , 2007, 87, 245-313.	13.1	5,781
2	Ageing and infection. <i>Lancet Infectious Diseases</i> , The, 2002, 2, 659-666.	4.6	837
3	Reactive oxygen species: from health to disease. <i>Swiss Medical Weekly</i> , 2012, 142, w13659.	0.8	611
4	NOX4 activity is determined by mRNA levels and reveals a unique pattern of ROS generation. <i>Biochemical Journal</i> , 2007, 406, 105-114.	1.7	553
5	A Ca ²⁺ -activated NADPH Oxidase in Testis, Spleen, and Lymph Nodes. <i>Journal of Biological Chemistry</i> , 2001, 276, 37594-37601.	1.6	526
6	Fibronectin-binding protein acts as <i>Staphylococcus aureus</i> invasin via fibronectin bridging to integrin alpha5beta1. <i>Cellular Microbiology</i> , 1999, 1, 101-117.	1.1	505
7	Calreticulin Is Essential for Cardiac Development. <i>Journal of Cell Biology</i> , 1999, 144, 857-868.	2.3	467
8	Chemokine receptors in the central nervous system: role in brain inflammation and neurodegenerative diseases. <i>Brain Research Reviews</i> , 2005, 48, 16-42.	9.1	455
9	Two Novel Proteins Activate Superoxide Generation by the NADPH Oxidase NOX1. <i>Journal of Biological Chemistry</i> , 2003, 278, 3510-3513.	1.6	430
10	"Calciosome," a cytoplasmic organelle: the inositol 1,4,5-trisphosphate-sensitive Ca ²⁺ store of nonmuscle cells?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 1091-1095.	3.3	424
11	NOX Enzymes in the Central Nervous System: From Signaling to Disease. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2481-2504.	2.5	408
12	Bcl-2 decreases the free Ca ²⁺ concentration within the endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 5723-5728.	3.3	402
13	Pneumonia in the very old. <i>Lancet Infectious Diseases</i> , The, 2004, 4, 112-124.	4.6	396
14	NOX3, a Superoxide-generating NADPH Oxidase of the Inner Ear. <i>Journal of Biological Chemistry</i> , 2004, 279, 46065-46072.	1.6	377
15	Mechanism of Ca ²⁺ Activation of the NADPH Oxidase 5 (NOX5). <i>Journal of Biological Chemistry</i> , 2004, 279, 18583-18591.	1.6	333
16	A Mammalian H ⁺ Channel Generated Through Alternative Splicing of the NADPH Oxidase Homolog NOH-1. <i>Science</i> , 2000, 287, 138-142.	6.0	276
17	Decreased blood pressure in NOX1-deficient mice. <i>FEBS Letters</i> , 2006, 580, 497-504.	1.3	273
18	NOX family NADPH oxidases: Not just in mammals. <i>Biochimie</i> , 2007, 89, 1107-1112.	1.3	269

#	ARTICLE	IF	CITATIONS
19	Functional specialization of calreticulin domains. <i>Journal of Cell Biology</i> , 2001, 154, 961-972.	2.3	265
20	Severe Life Stress and Oxidative Stress in the Brain: From Animal Models to Human Pathology. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1475-1490.	2.5	264
21	The NADPH Oxidase NOX4 Drives Cardiac Differentiation: Role in Regulating Cardiac Transcription Factors and MAP Kinase Activation. <i>Molecular Biology of the Cell</i> , 2006, 17, 3978-3988.	0.9	254
22	A Key Role for NOX4 in Epithelial Cell Death During Development of Lung Fibrosis. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 607-619.	2.5	249
23	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). <i>Redox Biology</i> , 2017, 13, 94-162.	3.9	242
24	Overexpression of Calreticulin Increases Intracellular Ca ²⁺ Storage and Decreases Store-operated Ca ²⁺ Influx. <i>Journal of Biological Chemistry</i> , 1996, 271, 9332-9339.	1.6	238
25	New Insights on NOX Enzymes in the Central Nervous System. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 2815-2837.	2.5	234
26	Small-Molecule NOX Inhibitors: ROS-Generating NADPH Oxidases as Therapeutic Targets. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2535-2552.	2.5	233
27	Human embryonic stem cell-derived test systems for developmental neurotoxicity: a transcriptomics approach. <i>Archives of Toxicology</i> , 2013, 87, 123-143.	1.9	222
28	Heterologously Expressed Staphylococcus aureus Fibronectin-Binding Proteins Are Sufficient for Invasion of Host Cells. <i>Infection and Immunity</i> , 2000, 68, 6871-6878.	1.0	220
29	Mechanisms of Vascular Smooth Muscle NADPH Oxidase 1 (Nox1) Contribution to Injury-Induced Neointimal Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 480-487.	1.1	211
30	Neurotoxic Activation of Microglia Is Promoted by a Nox1-Dependent NADPH Oxidase. <i>Journal of Neuroscience</i> , 2008, 28, 12039-12051.	1.7	191
31	Involvement of NOX2 in the Development of Behavioral and Pathologic Alterations in Isolated Rats. <i>Biological Psychiatry</i> , 2009, 66, 384-392.	0.7	190
32	NOX enzymes as novel targets for drug development. <i>Seminars in Immunopathology</i> , 2008, 30, 339-363.	2.8	187
33	Ca ²⁺ Regulation of Interactions between Endoplasmic Reticulum Chaperones. <i>Journal of Biological Chemistry</i> , 1999, 274, 6203-6211.	1.6	186
34	Electron currents generated by the human phagocyte NADPH oxidase. <i>Nature</i> , 1998, 392, 734-737.	13.7	184
35	Chemotactic peptide activation of human neutrophils and HL-60 cells. Pertussis toxin reveals correlation between inositol trisphosphate generation, calcium ion transients, and cellular activation.. <i>Journal of Clinical Investigation</i> , 1985, 76, 1348-1354.	3.9	177
36	NADPH Oxidase 1 Modulates WNT and NOTCH1 Signaling To Control the Fate of Proliferative Progenitor Cells in the Colon. <i>Molecular and Cellular Biology</i> , 2010, 30, 2636-2650.	1.1	175

#	ARTICLE	IF	CITATIONS
37	Demented versus non-demented very old inpatients: the same comorbidities but poorer functional and nutritional status. <i>Age and Ageing</i> , 2008, 37, 83-89.	0.7	168
38	Aging and Infectious Diseases in the Developing World. <i>Clinical Infectious Diseases</i> , 2004, 39, 83-91.	2.9	167
39	Nicotinamide Adenine Dinucleotide Phosphate Reduced Oxidase 5 (Nox5) Regulation by Angiotensin II and Endothelin-1 Is Mediated via Calcium/Calmodulin-Dependent, Rac-1-Independent Pathways in Human Endothelial Cells. <i>Circulation Research</i> , 2010, 106, 1363-1373.	2.0	167
40	The miR 302-367 cluster drastically affects self-renewal and infiltration properties of glioma-initiating cells through CXCR4 repression and consequent disruption of the SHH-GLI-NANOG network. <i>Cell Death and Differentiation</i> , 2012, 19, 232-244.	5.0	165
41	Aging: A revisited theory based on free radicals generated by NOX family NADPH oxidases. <i>Experimental Gerontology</i> , 2007, 42, 256-262.	1.2	164
42	Activation of TRPC6 channels is essential for lung ischaemia-induced reperfusion induced oedema in mice. <i>Nature Communications</i> , 2012, 3, 649.	5.8	162
43	The calcium-binding protein calreticulin is a major constituent of lytic granules in cytolytic T lymphocytes. <i>Journal of Experimental Medicine</i> , 1993, 177, 1-7.	4.2	152
44	Hyperinflammation in chronic granulomatous disease and anti-inflammatory role of the phagocyte NADPH oxidase. <i>Seminars in Immunopathology</i> , 2008, 30, 255-271.	2.8	148
45	Tissue distribution and putative physiological function of NOX family NADPH oxidases. <i>Japanese Journal of Infectious Diseases</i> , 2004, 57, S28-9.	0.5	142
46	Redistribution of intracellular Ca ²⁺ stores during phagocytosis in human neutrophils. <i>Science</i> , 1994, 265, 1439-1441.	6.0	141
47	Pharmacological characterization of the seven human NOX isoforms and their inhibitors. <i>Redox Biology</i> , 2019, 26, 101272.	3.9	136
48	Nox1 Mediates Basic Fibroblast Growth Factor-Induced Migration of Vascular Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1736-1743.	1.1	134
49	NADPH Oxidase-1 Plays a Crucial Role in Hyperoxia-induced Acute Lung Injury in Mice. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 972-981.	2.5	134
50	NOX5 is expressed at the plasma membrane and generates superoxide in response to protein kinase C activation. <i>Biochimie</i> , 2007, 89, 1159-1167.	1.3	132
51	NADPH-Oxidase 4 Protects against Kidney Fibrosis during Chronic Renal Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2012, 23, 1967-1976.	3.0	131
52	Detection of reactive oxygen species derived from the family of NOX NADPH oxidases. <i>Free Radical Biology and Medicine</i> , 2012, 53, 1903-1918.	1.3	130
53	Early Termination of a Prospective, Randomized Trial Comparing Teicoplanin and Flucloxacillin for Treating Severe Staphylococcal Infections. <i>Journal of Infectious Diseases</i> , 1987, 155, 187-191.	1.9	129
54	Role of NADPH oxidase isoforms NOX1, NOX2 and NOX4 in myocardial ischemia/reperfusion injury. <i>Journal of Molecular and Cellular Cardiology</i> , 2013, 64, 99-107.	0.9	129

#	ARTICLE	IF	CITATIONS
55	Targeting Vascular NADPH Oxidase 1 Blocks Tumor Angiogenesis through a PPAR α Mediated Mechanism. PLoS ONE, 2011, 6, e14665.	1.1	128
56	Microcebus murinus: a useful primate model for human cerebral aging and Alzheimer's disease?. Genes, Brain and Behavior, 2006, 5, 120-130.	1.1	123
57	A Novel H ⁺ Conductance in Eosinophils. Journal of Experimental Medicine, 1999, 190, 183-194.	4.2	122
58	A 3D printed microfluidic device for production of functionalized hydrogel microcapsules for culture and differentiation of human Neuronal Stem Cells (hNSC). Lab on A Chip, 2016, 16, 1593-1604.	3.1	121
59	Glut3 Addiction Is a Druggable Vulnerability for a Molecularly Defined Subpopulation of Glioblastoma. Cancer Cell, 2017, 32, 856-868.e5.	7.7	121
60	s-cyclophilin is retained intracellularly via a unique COOH-terminal sequence and colocalizes with the calcium storage protein calreticulin.. Journal of Cell Biology, 1992, 116, 113-125.	2.3	120
61	Reactive Oxygen-Related Diseases: Therapeutic Targets and Emerging Clinical Indications. Antioxidants and Redox Signaling, 2015, 23, 1171-1185.	2.5	120
62	NOX1 Deficiency Protects From Aortic Dissection in Response to Angiotensin II. Hypertension, 2007, 50, 189-196.	1.3	119
63	NOX family NADPH oxidases in liver and in pancreatic islets: a role in the metabolic syndrome and diabetes?. Biochemical Society Transactions, 2008, 36, 920-929.	1.6	117
64	Identification of BARD1 as Mediator between Proapoptotic Stress and p53-Dependent Apoptosis. Molecular Cell, 2001, 8, 1255-1266.	4.5	110
65	The PDZ-interacting domain of TRPC4 controls its localization and surface expression in HEK293 cells. Journal of Cell Science, 2002, 115, 3497-3508.	1.2	109
66	Expression and Activity of NOX5 in the Circulating Malignant B Cells of Hairy Cell Leukemia. Journal of Immunology, 2005, 175, 8424-8430.	0.4	107
67	NADPH oxidase (NOX) isoforms are inhibited by celastrol with a dual mode of action. British Journal of Pharmacology, 2011, 164, 507-520.	2.7	105
68	A Role for NOX NADPH Oxidases in Alzheimer's Disease and Other Types of Dementia?. IUBMB Life, 2003, 55, 307-313.	1.5	103
69	Nef-mediated Clathrin-coated Pit Formation. Journal of Cell Biology, 1997, 139, 37-47.	2.3	102
70	NOX5: from basic biology to signaling and disease. Free Radical Biology and Medicine, 2012, 52, 725-734.	1.3	102
71	Rapid Generation of Stable Transgenic Embryonic Stem Cell Lines Using Modular Lentivectors. Stem Cells, 2006, 24, 615-623.	1.4	101
72	Phagocyte NADPH oxidase, chronic granulomatous disease and mycobacterial infections. Cellular Microbiology, 2014, 16, 1168-1178.	1.1	101

#	ARTICLE	IF	CITATIONS
73	NADPH Oxidase NOX2 Defines a New Antagonistic Role for Reactive Oxygen Species and cAMP/PKA in the Regulation of Insulin Secretion. <i>Diabetes</i> , 2012, 61, 2842-2850.	0.3	100
74	The PDZ-interacting domain of TRPC4 controls its localization and surface expression in HEK293 cells. <i>Journal of Cell Science</i> , 2002, 115, 3497-508.	1.2	100
75	Nox Activator 1. <i>Circulation</i> , 2010, 121, 549-559.	1.6	99
76	Does dementia predict adverse hospitalization outcomes? A prospective study in aged inpatients. <i>International Journal of Geriatric Psychiatry</i> , 2009, 24, 283-291.	1.3	98
77	Engineering of Midbrain Organoids Containing Long-Lived Dopaminergic Neurons. <i>Stem Cells and Development</i> , 2014, 23, 1535-1547.	1.1	95
78	Comparison of 2D and 3D neural induction methods for the generation of neural progenitor cells from human induced pluripotent stem cells. <i>Stem Cell Research</i> , 2017, 25, 139-151.	0.3	95
79	A Sox1 to Pax6 Switch Drives Neuroectoderm to Radial Glia Progression During Differentiation of Mouse Embryonic Stem Cells. <i>Stem Cells</i> , 2009, 27, 49-58.	1.4	94
80	A key role for the microglial NADPH oxidase in APP-dependent killing of neurons. <i>Neurobiology of Aging</i> , 2006, 27, 1577-1587.	1.5	90
81	NADPH oxidases as drug targets and biomarkers in neurodegenerative diseases: What is the evidence?. <i>Free Radical Biology and Medicine</i> , 2017, 112, 387-396.	1.3	88
82	The chemokine receptor CCR5 in the central nervous system. <i>Progress in Neurobiology</i> , 2011, 93, 297-311.	2.8	86
83	Mammalian NADPH Oxidases. <i>Methods in Molecular Biology</i> , 2019, 1982, 17-36.	0.4	86
84	The NADPH Oxidase NOX2 Controls Glutamate Release: A Novel Mechanism Involved in Psychosis-Like Ketamine Responses. <i>Journal of Neuroscience</i> , 2010, 30, 11317-11325.	1.7	85
85	Production of the plasma-cell survival factor a proliferation-inducing ligand (APRIL) peaks in myeloid precursor cells from human bone marrow. <i>Blood</i> , 2011, 118, 1838-1844.	0.6	85
86	Expression of an $\alpha 7$ duplicate nicotinic acetylcholine receptor-related protein in human leukocytes. <i>Journal of Neuroimmunology</i> , 2002, 126, 86-98.	1.1	84
87	Neuroendocrine Profile in a Rat Model of Psychosocial Stress: Relation to Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 1385-1399.	2.5	84
88	Calreticulin reveals a critical Ca ²⁺ checkpoint in cardiac myofibrillogenesis. <i>Journal of Cell Biology</i> , 2002, 158, 103-113.	2.3	83
89	Markers of murine embryonic and neural stem cells, neurons and astrocytes: reference points for developmental neurotoxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2010, 27, 17-42.	0.9	83
90	The HIV-1 Nef Protein and Phagocyte NADPH Oxidase Activation. <i>Journal of Biological Chemistry</i> , 2002, 277, 42136-42143.	1.6	81

#	ARTICLE	IF	CITATIONS
91	Distinct Roles of BARD1 Isoforms in Mitosis: Full-Length BARD1 Mediates Aurora B Degradation, Cancer-Associated BARD1 ^{Δ2} Scaffolds Aurora B and BRCA2. <i>Cancer Research</i> , 2009, 69, 1125-1134.	0.4	79
92	Procalcitonin and Infection in Elderly Patients. <i>Journal of the American Geriatrics Society</i> , 2005, 53, 1392-1395.	1.3	78
93	Voltage-dependent and Ca ²⁺ -activated ion channels in human neutrophils.. <i>Journal of Clinical Investigation</i> , 1990, 85, 491-498.	3.9	78
94	Selective Inhibition of IgG-Mediated Phagocytosis in Gelsolin-Deficient Murine Neutrophils. <i>Journal of Immunology</i> , 2000, 165, 2451-2457.	0.4	76
95	Phagocyte NADPH oxidase and specific immunity. <i>Clinical Science</i> , 2015, 128, 635-648.	1.8	76
96	Expression and function of $\hat{1}\pm$ -smooth muscle actin during embryonic-stem-cell-derived cardiomyocyte differentiation. <i>Journal of Cell Science</i> , 2007, 120, 229-238.	1.2	75
97	The calcium signal and neutrophil activation. <i>Clinical Biochemistry</i> , 1990, 23, 159-166.	0.8	72
98	BARD1 induces apoptosis by catalysing phosphorylation of p53 by DNA-damage response kinase. <i>Oncogene</i> , 2005, 24, 3726-3736.	2.6	72
99	Aerolysin Induces G-protein Activation and Ca ²⁺ Release from Intracellular Stores in Human Granulocytes. <i>Journal of Biological Chemistry</i> , 1998, 273, 18122-18129.	1.6	71
100	Deficiency in the NADPH oxidase 4 predisposes towards diet-induced obesity. <i>International Journal of Obesity</i> , 2012, 36, 1503-1513.	1.6	70
101	Transcription factor NRF2 controls the fate of neural stem cells in the subgranular zone of the hippocampus. <i>Redox Biology</i> , 2017, 13, 393-401.	3.9	69
102	Alternative splice variants of hTrp4 differentially interact with the C-terminal portion of the inositol 1,4,5-trisphosphate receptors. <i>FEBS Letters</i> , 2001, 487, 377-383.	1.3	68
103	Targeting NOX enzymes in the central nervous system: therapeutic opportunities. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2387-2407.	2.4	68
104	Evolution of the Ferric Reductase Domain (FRD) Superfamily: Modularity, Functional Diversification, and Signature Motifs. <i>PLoS ONE</i> , 2013, 8, e58126.	1.1	68
105	Leukotriene B4 stimulation of phagocytes results in the formation of inositol 1,4,5-trisphosphate A second messenger for Ca ²⁺ mobilization. <i>Biochemical Journal</i> , 1986, 240, 333-340.	1.7	66
106	Chemoattractant-induced respiratory burst: increases in cytosolic Ca ²⁺ concentrations are essential and synergize with a kinetically distinct second signal. <i>Biochemical Journal</i> , 1997, 322, 709-718.	1.7	66
107	A Pure Population of Ectodermal Cells Derived from Human Embryonic Stem Cells. <i>Stem Cells</i> , 2008, 26, 440-444.	1.4	66
108	NADPH oxidase elevations in pyramidal neurons drive psychosocial stress-induced neuropathology. <i>Translational Psychiatry</i> , 2012, 2, e111-e111.	2.4	64

#	ARTICLE	IF	CITATIONS
109	Prospective Comparison of 6 Comorbidity Indices as Predictors of 1-Year Post-Hospital Discharge Institutionalization, Readmission, and Mortality in Elderly Individuals. <i>Journal of the American Medical Directors Association</i> , 2012, 13, 272-278.	1.2	64
110	Aberrant expression of BARD1 in breast and ovarian cancers with poor prognosis. <i>International Journal of Cancer</i> , 2006, 118, 1215-1226.	2.3	63
111	Fetal bovine serum enables cardiac differentiation of human embryonic stem cells. <i>Differentiation</i> , 2007, 75, 669-681.	1.0	62
112	Calnexin Deficiency Leads to Dysmyelination. <i>Journal of Biological Chemistry</i> , 2010, 285, 18928-18938.	1.6	62
113	Profiling of drugs and environmental chemicals for functional impairment of neural crest migration in a novel stem cell-based test battery. <i>Archives of Toxicology</i> , 2014, 88, 1109-26.	1.9	62
114	Calciosome, a sarcoplasmic reticulum-like organelle involved in intracellular Ca ²⁺ -handling by non-muscle cells: Studies in human neutrophils and HL-60 cells. <i>Cell Calcium</i> , 1989, 10, 351-361.	1.1	61
115	Neural progenitors derived from human embryonic stem cells are targeted by allogeneic T and natural killer cells. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3556-3569.	1.6	61
116	NOX4 Expression in Human Microglia Leads to Constitutive Generation of Reactive Oxygen Species and to Constitutive IL-6 Expression. <i>Journal of Innate Immunity</i> , 2009, 1, 570-581.	1.8	60
117	Geriatrics index of comorbidity was the most accurate predictor of death in geriatric hospital among six comorbidity scores. <i>Journal of Clinical Epidemiology</i> , 2010, 63, 1036-1044.	2.4	60
118	Haplotype-Based Banking of Human Pluripotent Stem Cells for Transplantation: Potential and Limitations. <i>Stem Cells and Development</i> , 2012, 21, 2364-2373.	1.1	60
119	Induction and circumvention of nitrate tolerance applying different dosage intervals. <i>American Journal of Medicine</i> , 1987, 83, 860-870.	0.6	58
120	Increased brain damage after ischaemic stroke in mice lacking the chemokine receptor CCR5. <i>British Journal of Pharmacology</i> , 2010, 160, 311-321.	2.7	58
121	Hyperinflammation of chronic granulomatous disease is abolished by NOX2 reconstitution in macrophages and dendritic cells. <i>Journal of Pathology</i> , 2012, 228, 341-350.	2.1	57
122	Subcellular distribution of Ca ²⁺ pumping sites in human neutrophils. <i>Journal of Clinical Investigation</i> , 1987, 80, 107-116.	3.9	57
123	<i>Staphylococcus aureus</i> , phagocyte NADPH oxidase and chronic granulomatous disease. <i>FEMS Microbiology Reviews</i> , 2017, 41, fuv042.	3.9	56
124	Ca ²⁺ -induced exocytosis in individual human neutrophils: high- and low-affinity granule populations and submaximal responses. <i>EMBO Journal</i> , 1998, 17, 1279-1288.	3.5	55
125	Heme Histidine Ligands within gp91 Modulate Proton Conduction by the Phagocyte NADPH Oxidase. <i>Journal of Biological Chemistry</i> , 2001, 276, 30277-30284.	1.6	55
126	Nuclear cytoplasmic translocation of BARD1 is linked to its apoptotic activity. <i>Oncogene</i> , 2004, 23, 3509-3520.	2.6	54

#	ARTICLE	IF	CITATIONS
127	Three common polymorphisms in the <i>CYBA</i> gene form a haplotype associated with decreased ROS generation. <i>Human Mutation</i> , 2009, 30, 1123-1133.	1.1	54
128	Nanoscale liquid chromatography and capillary electrophoresis coupled to electrospray mass spectrometry for the detection of amyloid- β peptide related to Alzheimer's disease. <i>Journal of Chromatography A</i> , 2002, 974, 135-142.	1.8	51
129	Telomere length is not predictive of dementia or MCI conversion in the oldest old. <i>Neurobiology of Aging</i> , 2010, 31, 719-720.	1.5	51
130	Macrophage-specific NOX2 contributes to the development of lung emphysema through modulation of SIRT1/MMP-9 pathways. <i>Journal of Pathology</i> , 2015, 235, 65-78.	2.1	51
131	Telomere length and ApoE polymorphism in mild cognitive impairment, degenerative and vascular dementia. <i>Journal of the Neurological Sciences</i> , 2010, 299, 108-111.	0.3	50
132	Voltage-Gated Proton Channels as Novel Drug Targets: From NADPH Oxidase Regulation to Sperm Biology. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 490-513.	2.5	49
133	Dissemination of intraperitoneal ovarian cancer: Discussion of mechanisms and demonstration of lymphatic spreading in ovarian cancer model. <i>Critical Reviews in Oncology/Hematology</i> , 2009, 72, 1-9.	2.0	48
134	Evaluation of NADPH oxidases as drug targets in a mouse model of familial amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2016, 97, 95-108.	1.3	47
135	Concurrent mutations in RNA-dependent RNA polymerase and spike protein emerged as the epidemiologically most successful SARS-CoV-2 variant. <i>Scientific Reports</i> , 2021, 11, 13705.	1.6	45
136	Store-operated Ca ²⁺ Influx and Stimulation of Exocytosis in HL-60 Granulocytes. <i>Journal of Biological Chemistry</i> , 1997, 272, 28360-28367.	1.6	44
137	Ca ²⁺ -storage organelles. <i>FEBS Letters</i> , 1991, 285, 225-229.	1.3	42
138	Highly Supralinear Feedback Inhibition of Ca ²⁺ Uptake by the Ca ²⁺ Load of Intracellular Stores. <i>Journal of Biological Chemistry</i> , 1996, 271, 14925-14930.	1.6	42
139	The NADPH oxidase Nox2 regulates VEGFR1/CSF-1R-mediated microglial chemotaxis and promotes early postnatal infiltration of phagocytes in the subventricular zone of the mouse cerebral cortex. <i>Glia</i> , 2013, 61, 1542-1555.	2.5	41
140	Regulation of Ca ²⁺ influx in myeloid cells. Role of plasma membrane potential, inositol phosphates, cytosolic free [Ca ²⁺], and filling state of intracellular Ca ²⁺ stores. <i>Journal of Clinical Investigation</i> , 1992, 90, 830-839.	3.9	41
141	HIV-1 Tat C modulates NOX2 and NOX4 expressions through miR-17 in a human microglial cell line. <i>Journal of Neurochemistry</i> , 2014, 131, 803-815.	2.1	40
142	Redox activation of excitatory pathways in auditory neurons as mechanism of age-related hearing loss. <i>Redox Biology</i> , 2020, 30, 101434.	3.9	40
143	A subset of N-substituted phenothiazines inhibits NADPH oxidases. <i>Free Radical Biology and Medicine</i> , 2015, 86, 239-249.	1.3	38
144	Fate of systemically and locally administered adipose-derived mesenchymal stromal cells and their effect on wound healing. <i>Stem Cells Translational Medicine</i> , 2020, 9, 131-144.	1.6	38

#	ARTICLE	IF	CITATIONS
145	Store-operated Ca ²⁺ influx: What is the message from the stores to the membrane?. <i>Translational Research</i> , 1996, 128, 19-26.	2.4	37
146	Molecular Imaging Reveals Rapid Reduction of Endothelial Activation in Early Atherosclerosis With Apocynin Independent of Antioxidative Properties. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 2187-2192.	1.1	37
147	Expression of mRNA for ROS-generating NADPH oxidases in the aging stomach. <i>Experimental Gerontology</i> , 2005, 40, 353-357.	1.2	36
148	NADPH Oxidase 1 Deficiency Alters Caveolin Phosphorylation and Angiotensin II Receptor Localization in Vascular Smooth Muscle. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2371-2384.	2.5	36
149	NADPH oxidase 4 deficiency leads to impaired wound repair and reduced dityrosine-crosslinking, but does not affect myofibroblast formation. <i>Free Radical Biology and Medicine</i> , 2016, 96, 374-384.	1.3	36
150	NOX enzymes in immuno-inflammatory pathologies. <i>Seminars in Immunopathology</i> , 2008, 30, 193-194.	2.8	35
151	The NADPH oxidase NOX2 plays a role in periodontal pathologies. <i>Seminars in Immunopathology</i> , 2008, 30, 273-8.	2.8	35
152	Prospective Comparison of Six Co-Morbidity Indices As Predictors of 5 Years Post Hospital Discharge Survival in the Elderly. <i>Rejuvenation Research</i> , 2010, 13, 675-682.	0.9	35
153	Comprehensive metagenomic analysis of glioblastoma reveals absence of known virus despite antiviral-like type I interferon gene response. <i>International Journal of Cancer</i> , 2014, 135, 1381-1389.	2.3	35
154	Vitronectin Interaction with Glycosaminoglycans. <i>Journal of Biological Chemistry</i> , 1999, 274, 37611-37619.	1.6	34
155	NOX-4 is expressed in thickened pulmonary arteries in idiopathic pulmonary fibrosis. <i>Nature Medicine</i> , 2011, 17, 31-32.	15.2	34
156	Development of Human Nervous Tissue upon Differentiation of Embryonic Stem Cells in Three-Dimensional Culture. <i>Stem Cells</i> , 2009, 27, 509-520.	1.4	34
157	NOX3-TARGETED THERAPIES FOR INNER EAR PATHOLOGIES. <i>Current Pharmaceutical Design</i> , 2015, 21, 5977-5987.	0.9	34
158	The HIV Nef Protein Alters Ca ²⁺ Signaling in Myelomonocytic Cells through SH3-mediated Protein-Protein Interactions. <i>Journal of Biological Chemistry</i> , 1999, 274, 34765-34772.	1.6	33
159	Quinone compounds regulate the level of ROS production by the NADPH oxidase Nox4. <i>Biochemical Pharmacology</i> , 2013, 85, 1644-1654.	2.0	32
160	BARD1 Expression During Spermatogenesis Is Associated with Apoptosis and Hormonally Regulated. <i>Biology of Reproduction</i> , 2004, 71, 1614-1624.	1.2	31
161	Regulation of NOX1 expression by GATA, HNF-1 α , and Cdx transcription factors. <i>Free Radical Biology and Medicine</i> , 2008, 44, 430-443.	1.3	31
162	Monocrotophos in Gandaman village: India school lunch deaths and need for improved toxicity testing. <i>Archives of Toxicology</i> , 2013, 87, 1877-1881.	1.9	30

#	ARTICLE	IF	CITATIONS
163	Optimized Generation of Functional Neutrophils and Macrophages from Patient-Specific Induced Pluripotent Stem Cells: <i>Ex Vivo</i> Models of X ⁰ -Linked, AR22 ⁰ - and AR47 ⁰ - Chronic Granulomatous Diseases. <i>BioResearch Open Access</i> , 2014, 3, 311-326.	2.6	30
164	Lentivector Knockdown of CCR5 in Hematopoietic Stem and Progenitor Cells Confers Functional and Persistent HIV-1 Resistance in Humanized Mice. <i>Journal of Virology</i> , 2015, 89, 6761-6772.	1.5	30
165	Viral chimeras decrypt the role of enterovirus capsid proteins in viral tropism, acid sensitivity and optimal growth temperature. <i>PLoS Pathogens</i> , 2018, 14, e1006962.	2.1	30
166	Evolutionary Forces Shape the Human RFPL1,2,3 Genes toward a Role in Neocortex Development. <i>American Journal of Human Genetics</i> , 2008, 83, 208-218.	2.6	29
167	Test systems of developmental toxicity: state-of-the art and future perspectives. <i>Archives of Toxicology</i> , 2013, 87, 2037-2042.	1.9	29
168	Inositol 1,4,5-trisphosphate binding sites copurify with the putative Ca-storage protein calreticulin in rat liver. <i>Cell Calcium</i> , 1993, 14, 485-492.	1.1	28
169	Stem cell sources for regenerative medicine: the immunological point of view. <i>Seminars in Immunopathology</i> , 2011, 33, 519-524.	2.8	28
170	Dual NADPH oxidases DUOX1 and DUOX2 synthesize NAADP and are necessary for Ca ²⁺ signaling during T cell activation. <i>Science Signaling</i> , 2021, 14, eabe3800.	1.6	28
171	NOX Family NADPH Oxidases. <i>Journal of General Physiology</i> , 2002, 120, 781-786.	0.9	27
172	Pax6-induced alteration of cell fate: Shape changes, expression of neuronal β -tubulin, postmitotic phenotype, and cell migration. <i>Journal of Neurobiology</i> , 2006, 66, 421-436.	3.7	27
173	Proton channels, plasma membrane potential, and respiratory burst in human neutrophils. <i>European Journal of Haematology</i> , 1993, 51, 309-312.	1.1	27
174	Bacillus Calmette-Guerin Infection in NADPH Oxidase Deficiency: Defective Mycobacterial Sequestration and Granuloma Formation. <i>PLoS Pathogens</i> , 2014, 10, e1004325.	2.1	27
175	The biological and ethical basis of the use of human embryonic stem cells for in vitro test systems or cell therapy. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2008, 25, 163-90.	0.9	27
176	Chemokine-induced cell death in CCR5-expressing neuroblastoma cells. <i>Journal of Neuroimmunology</i> , 2003, 145, 27-39.	1.1	25
177	Decreased neural precursor cell pool in NADPH oxidase 2-deficiency: From mouse brain to neural differentiation of patient derived iPSC. <i>Redox Biology</i> , 2017, 13, 82-93.	3.9	25
178	NADPH Oxidase 4 Regulates Inflammation in Ischemic Heart Failure: Role of Soluble Epoxide Hydrolase. <i>Antioxidants and Redox Signaling</i> , 2019, 31, 39-58.	2.5	24
179	Decreased NOX2 expression in the brain of patients with bipolar disorder: association with valproic acid prescription and substance abuse. <i>Translational Psychiatry</i> , 2017, 7, e1206-e1206.	2.4	23
180	Highly co-operative Ca ²⁺ activation of intermediate-conductance K ⁺ channels in granulocytes from a human cell line.. <i>Journal of Physiology</i> , 1993, 472, 373-390.	1.3	22

#	ARTICLE	IF	CITATIONS
181	TNF- β blockade in chronic granulomatous disease-induced hyperinflammation: Patient analysis and murine model. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 675-677.e4.	1.5	21
182	NOX enzymes as drug targets. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2279-2282.	2.4	21
183	Phenazopyridine induces and synchronizes neuronal differentiation of embryonic stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3517-3527.	1.6	20
184	Pluripotent stem cells as new drugs? The example of Parkinson's disease. <i>International Journal of Pharmaceutics</i> , 2009, 381, 113-121.	2.6	20
185	The relationship between brain tumor cell invasion of engineered neural tissues and in vivo features of glioblastoma. <i>Biomaterials</i> , 2013, 34, 8279-8290.	5.7	20
186	Regulation of Calreticulin Expression during Induction of Differentiation in Human Myeloid Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 32369-32378.	1.6	19
187	Elimination of proliferating cells from CNS grafts using a Ki67 promoter-driven thymidine kinase. <i>Molecular Therapy - Methods and Clinical Development</i> , 2016, 3, 16069.	1.8	19
188	Human three-dimensional engineered neural tissue reveals cellular and molecular events following cytomegalovirus infection. <i>Biomaterials</i> , 2015, 53, 296-308.	5.7	18
189	Altered Humoral Immune Responses and IgG Subtypes in NOX2-Deficient Mice and Patients: A Key Role for NOX2 in Antigen-Presenting Cells. <i>Frontiers in Immunology</i> , 2018, 9, 1555.	2.2	18
190	Optimization of Critical Hairpin Features Allows miRNA-based Gene Knockdown Upon Single-copy Transduction. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e207.	2.3	17
191	Diabetes, comorbidities and increased long-term mortality in older patients admitted for geriatric inpatient care. <i>Diabetes and Metabolism</i> , 2012, 38, 149-155.	1.4	16
192	Cellular diversity within embryonic stem cells: pluripotent clonal sublines show distinct differentiation potential. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 456-467.	1.6	16
193	Fingerprinting of neurotoxic compounds using a mouse embryonic stem cell dual luminescence reporter assay. <i>Archives of Toxicology</i> , 2017, 91, 365-391.	1.9	16
194	Organization of Ca ²⁺ stores in myeloid cells: association of SERCA2b and the type-1 inositol-1,4,5-trisphosphate receptor. <i>Biochemical Journal</i> , 1996, 316, 137-142.	1.7	15
195	Isoform- and dose-sensitive feedback interactions between paired box 6 gene and β -catenin in cell differentiation and death. <i>Experimental Cell Research</i> , 2010, 316, 1070-1081.	1.2	15
196	High Levels of Comorbidity and Disability Cancel Out the Dementia Effect in Predictions of Long-Term Mortality after Discharge in the Very Old. <i>Dementia and Geriatric Cognitive Disorders</i> , 2011, 32, 103-110.	0.7	15
197	Embryonic Stem Cell-Based Screen for Small Molecules: Cluster Analysis Reveals Four Response Patterns in Developing Neural Cells. <i>Current Medicinal Chemistry</i> , 2013, 20, 710-723.	1.2	15
198	Generation and Applications of Human Pluripotent Stem Cells Induced into Neural Lineages and Neural Tissues. <i>Frontiers in Physiology</i> , 2012, 3, 47.	1.3	14

#	ARTICLE	IF	CITATIONS
199	Macropinocytosis requires Gal-3 in a subset of patient-derived glioblastoma stem cells. <i>Communications Biology</i> , 2021, 4, 718.	2.0	14
200	Phenazopyridine induces and synchronizes neuronal differentiation of embryonic stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 0, 13, 3517-3527.	1.6	14
201	Mild cognitive impairment, degenerative and vascular dementia as predictors of intra-hospital, short- and long-term mortality in the oldest old. <i>Aging Clinical and Experimental Research</i> , 2011, 23, 60-66.	1.4	13
202	Primate-specific RFPL1 gene controls cell-cycle progression through cyclin B1/Cdc2 degradation. <i>Cell Death and Differentiation</i> , 2011, 18, 293-303.	5.0	13
203	Cerebrospinal fluid tau and A β ²⁴² concentrations in healthy subjects: delineation of reference intervals and their limitations. <i>Clinical Chemistry and Laboratory Medicine</i> , 2004, 42, 396-407.	1.4	12
204	Neurothreads: Development of supportive carriers for mature dopaminergic neuron differentiation and implantation. <i>Biomaterials</i> , 2021, 270, 120707.	5.7	12
205	NOX1 is responsible for cell death through STAT3 activation in hyperoxia and is associated with the pathogenesis of acute respiratory distress syndrome. <i>International Journal of Clinical and Experimental Pathology</i> , 2014, 7, 537-51.	0.5	12
206	Transcriptomic Analysis of E. coli after Exposure to a Sublethal Concentration of Hydrogen Peroxide Revealed a Coordinated Up-Regulation of the Cysteine Biosynthesis Pathway. <i>Antioxidants</i> , 2022, 11, 655.	2.2	12
207	Is Staphylococcus aureus an intracellular pathogen? Response. <i>Trends in Microbiology</i> , 2000, 8, 343-344.	3.5	11
208	Invasive microsporidiosis in allogeneic haematopoietic SCT recipients. <i>Bone Marrow Transplantation</i> , 2010, 45, 1249-1251.	1.3	11
209	Differential effects on neutrophil activation of staurosporin and its protein kinase C-selective derivative cgp 41231. <i>European Journal of Pharmacology</i> , 1992, 227, 221-224.	2.7	10
210	Highly cooperative Ca ²⁺ elevations in response to Ins(1,4,5)P ₃ microperfusion through a patch-clamp pipette. <i>Biophysical Journal</i> , 1995, 69, 2378-2391.	0.2	10
211	Screening of Bioactive Peptides Using an Embryonic Stem Cell-Based Neurodifferentiation Assay. <i>AAPS Journal</i> , 2014, 16, 400-412.	2.2	10
212	Hydrogen Peroxide Affects Growth of S. aureus Through Downregulation of Genes Involved in Pyrimidine Biosynthesis. <i>Frontiers in Immunology</i> , 2021, 12, 673985.	2.2	10
213	Antibodies against the Calcium-Binding Protein. <i>Plant Physiology</i> , 1989, 91, 1259-1261.	2.3	9
214	NADPH Oxidase 3 Deficiency Protects From Noise-Induced Sensorineural Hearing Loss. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 832314.	1.8	9
215	Telomere length, comorbidity, functional, nutritional and cognitive status as predictors of 5 years post hospital discharge survival in the oldest old. <i>Journal of Nutrition, Health and Aging</i> , 2012, 16, 225-230.	1.5	8
216	Poly-Lactic Acid-Based Biopolymer Formulations Are Safe for Sustained Intratympanic Dexamethasone Delivery. <i>Otology and Neurotology</i> , 2019, 40, e739-e746.	0.7	8

#	ARTICLE	IF	CITATIONS
217	Intrinsically Self-renewing Neuroprogenitors From the A/J Mouse Spiral Ganglion as Virtually Unlimited Source of Mature Auditory Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 395.	1.8	8
218	Technology for the prevention of antimicrobial resistance and healthcare-associated infections; 2017 Geneva IPC-Think Tank (Part 2). <i>Antimicrobial Resistance and Infection Control</i> , 2019, 8, 83.	1.5	7
219	Adipose-derived stem cell spheroids are superior to single-cell suspensions to improve fat autograft long-term survival. <i>Journal of Cellular and Molecular Medicine</i> , 2022, 26, 1421-1433.	1.6	6
220	Generation of human induced pluripotent stem cell line UNIGEi001-A from a 2-years old patient with Mucopolysaccharidosis type IH disease. <i>Stem Cell Research</i> , 2019, 41, 101604.	0.3	5
221	Novel Mechanism for an Old Drug: Phenazopyridine is a Kinase Inhibitor Affecting Autophagy and Cellular Differentiation. <i>Frontiers in Pharmacology</i> , 2021, 12, 664608.	1.6	5
222	Extensive Natural Variation for Cellular Hydrogen Peroxide Release Is Genetically Controlled. <i>PLoS ONE</i> , 2012, 7, e43566.	1.1	5
223	[26] Combination of microfluorimetric monitoring of cytosolic calcium and pH with patch clamp electrophysiological recordings in neutrophil granulocytes. <i>Methods in Enzymology</i> , 1994, 238, 308-320.	0.4	4
224	Successful Treatment of Disseminated Tuberculosis and Acquired Immunodeficiency Syndrome in an 81-y-old Woman. <i>Scandinavian Journal of Infectious Diseases</i> , 2003, 35, 419-421.	1.5	4
225	Induced Pluripotent Stem Cells to Understand Mucopolysaccharidosis. I: Demonstration of a Migration Defect in Neural Precursors. <i>Cells</i> , 2020, 9, 2593.	1.8	4
226	Local Cisplatin Delivery in Mouse Reliably Models Sensorineural Ototoxicity Without Systemic Adverse Effects. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 701783.	1.8	4
227	Optimization of Thymidine Kinase-Based Safety Switch for Neural Cell Therapy. <i>Cells</i> , 2022, 11, 502.	1.8	4
228	Generation of human induced pluripotent stem cell line UNIGEi003-A from skin fibroblasts of an apparently healthy male donor. <i>Stem Cell Research</i> , 2020, 48, 101928.	0.3	3
229	Di-Tyrosine Crosslinking and NOX4 Expression as Oxidative Pathological Markers in the Lungs of Patients with Idiopathic Pulmonary Fibrosis. <i>Antioxidants</i> , 2021, 10, 1833.	2.2	3
230	Alpha-1 Antitrypsin Reduces Disease Progression in a Mouse Model of Charcot-Marie-Tooth Type 1A: A Role for Decreased Inflammation and ADAM-17 Inhibition. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7405.	1.8	3
231	Effect of cyclic adenosine monophosphate elevations on functional responses of polymorphonuclear leukocytes from patients with cystic fibrosis. <i>Pediatric Pulmonology</i> , 1989, 6, 237-241.	1.0	2
232	Calreticulin and Ca ²⁺ Storage. <i>Molecular Biology Intelligence Unit</i> , 1996, , 59-76.	0.2	2
233	Navigating in vitro bioactivity data by investigating available resources using model compounds. <i>Scientific Data</i> , 2019, 6, 45.	2.4	1
234	Fetal bovine serum is essential for cardiac differentiation of human embryonic stem cells. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, S91.	0.9	0

#	ARTICLE	IF	CITATIONS
235	Optimization of X-linked chronic granulomatous disease modelization by using patient-specific induced pluripotent stem cells. <i>Experimental Hematology</i> , 2013, 41, S28.	0.2	0
236	Modeling Poliovirus Infection Using Human Engineered Neural Tissue Enriched With Motor Neuron Derived From Embryonic Stem Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 593106.	1.8	0
237	Pneumonies chez les patients Ã¢gÃ©s en fin de vie. <i>Revue Internationale De Soins Palliatifs</i> , 2004, Vol. 19, 149-153.	0.1	0
238	Infektionskrankheiten im Alter. , 2008, , 1017-1029.		0