

Ursula Rauen

List of Publications by Year in descending order

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77
papers

3,430
citations

126708

33
h-index

143772

57
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77
all docs

77
docs citations

77
times ranked

2925
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold-induced apoptosis in cultured hepatocytes and liver endothelial cells: mediation by reactive oxygen species. <i>FASEB Journal</i> , 1999, 13, 155-168.	0.2	292
2	Hypothermia injury/cold-induced apoptosis—evidence of an increase in chelatable iron causing oxidative injury in spite of low O_2 and H_2O_2 formation. <i>FASEB Journal</i> , 2000, 14, 1953-1964.	0.2	186
3	The Chelatable Iron Pool in Living Cells: A Methodically Defined Quantity. <i>Biological Chemistry</i> , 2002, 383, 489-502.	1.2	184
4	Determination of the chelatable iron pool of isolated rat hepatocytes by digital fluorescence microscopy using the fluorescent probe, phen green SK. <i>Hepatology</i> , 1999, 29, 1171-1179.	3.6	180
5	Subcellular distribution of chelatable iron: a laser scanning microscopic study in isolated hepatocytes and liver endothelial cells. <i>Biochemical Journal</i> , 2001, 356, 61-69.	1.7	175
6	New Insights into the Cellular and Molecular Mechanisms of Cold Storage Injury. <i>Journal of Investigative Medicine</i> , 2004, 52, 299-309.	0.7	116
7	Selective determination of mitochondrial chelatable iron in viable cells with a new fluorescent sensor. <i>Biochemical Journal</i> , 2002, 362, 137-147.	1.7	115
8	Controlled Oxygenated Rewarming of Cold Stored Livers Prior to Transplantation. <i>Transplantation</i> , 2016, 100, 147-152.	0.5	115
9	Determination of the Chelatable Iron Pool of Single Intact Cells by Laser Scanning Microscopy. <i>Archives of Biochemistry and Biophysics</i> , 2000, 376, 74-81.	1.4	102
10	Iron-induced mitochondrial permeability transition in cultured hepatocytes. <i>Journal of Hepatology</i> , 2004, 40, 607-615.	1.8	98
11	Assessment of Chelatable Mitochondrial Iron by Using Mitochondrion-Selective Fluorescent Iron Indicators with Different Iron-Binding Affinities. <i>ChemBioChem</i> , 2007, 8, 341-352.	1.3	93
12	Protection by glycine against hypoxic injury of rat hepatocytes: inhibition of ion fluxes through nonspecific leaks. <i>Journal of Hepatology</i> , 2000, 32, 58-66.	1.8	92
13	Cold-induced apoptosis of rat liver cells in University of Wisconsin solution: The central role of chelatable iron. <i>Hepatology</i> , 2002, 35, 560-567.	3.6	89
14	Cold-Induced Release of Reactive Oxygen Species as a Decisive Mediator of Hypothermia Injury to Cultured Liver Cells. <i>Free Radical Biology and Medicine</i> , 1998, 24, 1316-1323.	1.3	78
15	Mammalian Cell Injury Induced by Hypothermia the Emerging Role for Reactive Oxygen Species. <i>Biological Chemistry</i> , 2002, 383, 477-88.	1.2	72
16	Friedreich's Ataxia, No Changes in Mitochondrial Labile Iron in Human Lymphoblasts and Fibroblasts. <i>Journal of Biological Chemistry</i> , 2005, 280, 6701-6708.	1.6	68
17	Cold-induced apoptosis of hepatocytes: mitochondrial permeability transition triggered by nonmitochondrial chelatable iron. <i>Free Radical Biology and Medicine</i> , 2003, 35, 1664-1678.	1.3	67
18	Iron-dependent vs. iron-independent cold-induced injury to cultured rat hepatocytes: A comparative study in physiological media and organ preservation solutions. <i>Cryobiology</i> , 2007, 54, 77-86.	0.3	66

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19	Improvement of the Cold Storage of Isolated Human Hepatocytes. <i>Cell Transplantation</i> , 2012, 21, 23-37.	1.2	62
20	Improvement of the cold storage of blood vessels with a vascular preservation solution. Study in porcine aortic segments. <i>Journal of Vascular Surgery</i> , 2008, 47, 422-431.	0.6	54
21	ENERGY-DEPENDENT INJURY TO CULTURED SINUSOIDAL ENDOTHELIAL CELLS OF THE RAT LIVER IN UW SOLUTION. <i>Transplantation</i> , 1993, 55, 469-473.	0.5	52
22	Cold-Induced Injury to Porcine Corneal Endothelial Cells and Its Mediation by Chelatable Iron. <i>Cornea</i> , 2006, 25, 68-77.	0.9	45
23	COLD PRESERVATION OF ISOLATED RABBIT PROXIMAL TUBULES INDUCES RADICAL-MEDIATED CELL INJURY1. <i>Transplantation</i> , 1998, 65, 625-632.	0.5	42
24	Subnormothermic machine perfusion for preservation of porcine kidneys in a donation after circulatory death model. <i>Transplant International</i> , 2014, 27, 1097-1106.	0.8	41
25	Hypothermia causes a marked injury to rat proximal tubular cells that is aggravated by all currently used preservation solutions. <i>Cryobiology</i> , 2003, 47, 82-91.	0.3	40
26	Improved vessel preservation after 4 days of cold storage: Experimental study in rat arteries. <i>Journal of Vascular Surgery</i> , 2009, 50, 397-406.	0.6	39
27	Protection against hydrogen peroxide cytotoxicity in Rat-1 fibroblasts provided by the oncoprotein Bcl-2: maintenance of calcium homeostasis is secondary to the effect of Bcl-2 on cellular glutathione. <i>Biochemical Journal</i> , 1999, 340, 291-297.	1.7	38
28	Cold-induced apoptosis of rat liver endothelial cells: contribution of mitochondrial alterations. <i>Transplantation</i> , 2003, 76, 501-508.	0.5	37
29	Endothelial Dysfunction After Long-term Cold Storage in HTK Organ Preservation Solutions: Effects of Iron Chelators and N- α -acetyl-L-histidine. <i>Journal of Heart and Lung Transplantation</i> , 2008, 27, 208-216.	0.3	37
30	Auxiliary liver transplantation with arterialization of the portal vein for acute hepatic failure. <i>Transplant International</i> , 1998, 11, 266-271.	0.8	36
31	Use of a New Modified HTK Solution for Machine Preservation of Marginal Liver Grafts. <i>Journal of Surgical Research</i> , 2010, 160, 155-162.	0.8	36
32	Prolonged cold storage using a new histidine-tryptophan-ketoglutarate-based preservation solution in isogenic cardiac mouse grafts. <i>European Heart Journal</i> , 2011, 32, 509-516.	1.0	36
33	New Insights into the Cellular and Molecular Mechanisms of Cold Storage Injury. <i>Journal of Investigative Medicine</i> , 2004, 52, 299.	0.7	35
34	Enhancement of iron toxicity in L929 cells by d-glucose: accelerated(re-)reduction. <i>Biochemical Journal</i> , 2002, 368, 517-526.	1.7	29
35	Preclinical evaluation of coronary vascular function after cardioplegia with HTK and different antioxidant additives. <i>European Journal of Cardio-thoracic Surgery</i> , 2007, 31, 821-826.	0.6	29
36	A new preservation solution for lung transplantation: Evaluation in a porcine transplantation model. <i>Journal of Heart and Lung Transplantation</i> , 2012, 31, 310-317.	0.3	28

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37	Inherent toxicity of organ preservation solutions to cultured hepatocytes. <i>Cryobiology</i> , 2008, 56, 88-92.	0.3	27
38	Preservation of human artery function following prolonged cold storage with a new solution. <i>Journal of Vascular Surgery</i> , 2011, 53, 1063-1070.	0.6	27
39	Use of the new preservation solution Custodiol-N supplemented with dextran for hypothermic machine perfusion of the kidney. <i>Cryobiology</i> , 2013, 66, 131-135.	0.3	26
40	Nitric oxide increases toxicity of hydrogen peroxide against rat liver endothelial cells and hepatocytes by inhibition of hydrogen peroxide degradation. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C1440-C1449.	2.1	24
41	Preservation of Cell Structure, Metabolism, and Biotransformation Activity of Liver-on-a-Chip Organ Models by Hypothermic Storage. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700616.	3.9	24
42	Rapid decrease in cellular sodium and chloride content during cold incubation of cultured liver endothelial cells and hepatocytes. <i>Biochemical Journal</i> , 1997, 322, 693-699.	1.7	22
43	Gaseous oxygen persufflation or oxygenated machine perfusion with Custodiol-N for long-term preservation of ischemic rat livers?. <i>Cryobiology</i> , 2009, 58, 45-51.	0.3	22
44	Kidney transplantation after oxygenated machine perfusion preservation with Custodiol-N solution. <i>Transplant International</i> , 2015, 28, 1102-1108.	0.8	22
45	A ROLE FOR SODIUM IN HYPOXIC BUT NOT IN HYPOTHERMIC INJURY TO HEPATOCYTES AND LLC-PK 1 CELLS1. <i>Transplantation</i> , 2000, 70, 723-730.	0.5	21
46	Evaluation of a Modified HTK Solution Containing the New Iron Chelator LK 614 in an Isolated Rat Liver Perfusion Model. <i>Journal of Investigative Surgery</i> , 2009, 22, 340-347.	0.6	21
47	Protection against hydrogen peroxide cytotoxicity in Rat-1 fibroblasts provided by the oncoprotein Bcl-2: maintenance of calcium homeostasis is secondary to the effect of Bcl-2 on cellular glutathione. <i>Biochemical Journal</i> , 1999, 340, 291.	1.7	20
48	Attenuated Cold Storage Injury of Rat Livers Using a Modified HTK Solution. <i>Journal of Surgical Research</i> , 2008, 146, 49-56.	0.8	20
49	Endothelial Cell Toxicity of Preservation Solutions: Comparison of Endothelial Cells of Different Origin and Dependence on Growth State. <i>Cryobiology</i> , 1994, 31, 144-153.	0.3	19
50	Cold-induced injury to lung epithelial cells can be inhibited by iron chelators – implications for lung preservation†. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 40, 948-55.	0.6	19
51	HTK-N, a modified HTK solution, decreases preservation injury in a model of microsteatotic rat liver transplantation. <i>Langenbeck's Archives of Surgery</i> , 2012, 397, 1323-1331.	0.8	19
52	Cold Storage of Rat Hepatocyte Suspensions for One Week in a Customized Cold Storage Solution – Preservation of Cell Attachment and Metabolism. <i>PLoS ONE</i> , 2012, 7, e40444.	1.1	17
53	Protection against iron- and hydrogen peroxide-dependent cell injuries by a novel synthetic iron catalase mimic and its precursor, the iron-free ligand. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1369-1383.	1.3	16
54	Resveratrol Does Not Protect from Ischemia-Induced Acute Kidney Injury in an in Vivo Rat Model. <i>Kidney and Blood Pressure Research</i> , 2017, 42, 1090-1103.	0.9	15

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55	Cold Storage Injury to Rat Small-bowel Transplantsâ€”Beneficial Effect of a Modified HTK Solution. Transplantation, 2018, 102, 1666-1673.	0.5	14
56	Aggravation of cold-induced injury in Vero-B4 cells by RPMI 1640 medium â€” Identification of the responsible medium components. BMC Biotechnology, 2012, 12, 73.	1.7	10
57	Methylene Blue Treatment of Grafts During Cold Ischemia Time Reduces the Risk of Hepatitis C Virus Transmission. Journal of Infectious Diseases, 2018, 218, 1711-1721.	1.9	10
58	Characterization of injury in isolated rat proximal tubules during cold incubation and rewarming. PLoS ONE, 2017, 12, e0180553.	1.1	10
59	Critical O2 and NO concentrations in NO-induced cell death in a rat liver sinusoidal endothelial cell line. Biological Chemistry, 2004, 385, 341-9.	1.2	9
60	No evidence for protective erythropoietin alpha signalling in rat hepatocytes. BMC Gastroenterology, 2009, 9, 26.	0.8	9
61	Sodium as the major mediator of NO-induced cell death in cultured hepatocytes. Life Sciences, 2006, 79, 1606-1615.	2.0	8
62	Reduction of chronic graft injury with a new HTK-based preservation solution in a murine heart transplantation model. Cryobiology, 2012, 64, 273-278.	0.3	8
63	Serum- and albumin-free cryopreservation of endothelial monolayers with a new solution. Organogenesis, 2018, 14, 107-121.	0.4	8
64	Assessment of a chloride-poor versus a chloride-containing version of a modified histidine-tryptophan-ketoglutarate solution in a rat liver transplantation model. Liver Transplantation, 2011, 17, 650-660.	1.3	7
65	Optimization of long-term cold storage of rat precision-cut lung slices with a tissue preservation solution. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L1023-L1035.	1.3	7
66	Little evidence for a major role of Ca2+ in cold-induced injury of liver cells. Cryobiology, 2008, 56, 103-113.	0.3	6
67	Glycine Pretreatment Ameliorates Liver Injury After Partial Hepatectomy in the Rat. Journal of Investigative Surgery, 2010, 23, 12-20.	0.6	6
68	Mitochondrial Impairment as a Key Factor for the Lack of Attachment after Cold Storage of Hepatocyte Suspensions. Cell Transplantation, 2017, 26, 1855-1867.	1.2	5
69	A novel histidineâ€”tryptophanâ€”ketoglutarate formulation ameliorates intestinal injury in a cold storage and <i>ex vivo</i> warm oxygenated reperfusion model in rats. Bioscience Reports, 2020, 40, .	1.1	5
70	Characterisation of cold-induced mitochondrial fission in porcine aortic endothelial cells. Molecular Medicine, 2022, 28, 13.	1.9	5
71	Custodiol-MP for ex vivo lung perfusion â€” A comparison in a porcine model of donation after circulatory determination of death. International Journal of Artificial Organs, 2022, 45, 162-173.	0.7	4
72	Inhibitory and enhancing effects of NO on H2O2 toxicity: Dependence on the concentrations of NO and H2O2. Free Radical Research, 2007, 41, 402-412.	1.5	3

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73	Conversion of the Synthetic Catalase Mimic Precursor TAA into the Active Catalase Mimic in Isolated Hepatocytes. <i>Chemical Biology and Drug Design</i> , 2009, 73, 494-501.	1.5	3
74	Serum-Free Cryopreservation of Primary Rat Hepatocytes in a Modified Cold Storage Solution: Improvement of Cell Attachment and Function. <i>Biopreservation and Biobanking</i> , 2018, 16, 285-295.	0.5	2
75	Use of the new preservation solution Custodiol-AMP for ex vivo reconditioning of kidney grafts. <i>Artificial Organs</i> , 2021, 45, 1117-1123.	1.0	2
76	Inhaled sphingosine has no adverse side effects in isolated ventilated and perfused pig lungs. <i>Scientific Reports</i> , 2021, 11, 18607.	1.6	2
77	Use of modified Custodiol-N as perfusion solution in ex vivo lung perfusion. <i>American Journal of Translational Research (discontinued)</i> , 2020, 12, 153-161.	0.0	2