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 g-index
77 all docs	77 docs citations	77 times ranked	2925 citing authors

#	Article	IF	Citations
1	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
2	Characterisation of cold-induced mitochondrial fission in porcine aortic endothelial cells. Molecular Medicine, 2022, 28, 13.	1.9	5
3	Use of the new preservation solution Custodiolâ€MP for ex vivo reconditioning of kidney grafts. Artificial Organs, 2021, 45, 1117-1123.	1.0	2
4	Inhaled sphingosine has no adverse side effects in isolated ventilated and perfused pig lungs. Scientific Reports, 2021, 11, 18607.	1.6	2
5	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
6	A novel histidineâ€“tryptophanâ€“ketoglutarate formulation ameliorates intestinal injury in a cold storage and ex vivo warm oxygenated reperfusion model in rats. Bioscience Reports, 2020, 40, .	1.1	5
7	Use of modified Custodiol-N as perfusion solution in ex vivo lung perfusion. American Journal of Translational Research (discontinued), 2020, 12, 153-161.	0.0	2
8	Preservation of Cell Structure, Metabolism, and Biotransformation Activity of Liverâ€Onâ€Chip Organ Models by Hypothermic Storage. Advanced Healthcare Materials, 2018, 7, 1700616.	3.9	24
9	Cold Storage Injury to Rat Small-bowel Transplantsâ€”Beneficial Effect of a Modified HTK Solution. Transplantation, 2018, 102, 1666-1673.	0.5	14
10	Serum-Free Cryopreservation of Primary Rat Hepatocytes in a Modified Cold Storage Solution: Improvement of Cell Attachment and Function. Biopreservation and Biobanking, 2018, 16, 285-295.	0.5	2
11	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
12	Serum- and albumin-free cryopreservation of endothelial monolayers with a new solution. Organogenesis, 2018, 14, 107-121.	0.4	8
13	Resveratrol Does Not Protect from Ischemia-Induced Acute Kidney Injury in an in Vivo Rat Model. Kidney and Blood Pressure Research, 2017, 42, 1090-1103.	0.9	15
14	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
15	Characterization of injury in isolated rat proximal tubules during cold incubation and rewarming. PLoS ONE, 2017, 12, e0180553.	1.1	10
16	Controlled Oxygenated Rewarming of Cold Stored Livers Prior to Transplantation. Transplantation, 2016, 100, 147-152.	0.5	115
17	Kidney transplantation after oxygenated machine perfusion preservation with Custodiol-N solution. Transplant International, 2015, 28, 1102-1108.	0.8	22
18	Subnormothermic machine perfusion for preservation of porcine kidneys in a donation after circulatory death model. Transplant International, 2014, 27, 1097-1106.	0.8	41

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19	Use of the new preservation solution Custodiol-N supplemented with dextran for hypothermic machine perfusion of the kidney. Cryobiology, 2013, 66, 131-135.	0.3	26
20	Improvement of the Cold Storage of Isolated Human Hepatocytes. Cell Transplantation, 2012, 21, 23-37.	1.2	62
21	A new preservation solution for lung transplantation: Evaluation in a porcine transplantation model. Journal of Heart and Lung Transplantation, 2012, 31, 310-317.	0.3	28
22	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
23	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
24	HTK-N, a modified HTK solution, decreases preservation injury in a model of microsteatotic rat liver transplantation. Langenbeck's Archives of Surgery, 2012, 397, 1323-1331.	0.8	19
25	Cold Storage of Rat Hepatocyte Suspensions for One Week in a Customized Cold Storage Solution â€“ Preservation of Cell Attachment and Metabolism. PLoS ONE, 2012, 7, e40444.	1.1	17
26	Preservation of human artery function following prolonged cold storage with a new solution. Journal of Vascular Surgery, 2011, 53, 1063-1070.	0.6	27
27	Prolonged cold storage using a new histidine-tryptophan-ketoglutarate-based preservation solution in isogeneic cardiac mouse grafts. European Heart Journal, 2011, 32, 509-516.	1.0	36
28	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
29	Cold-induced injury to lung epithelial cells can be inhibited by iron chelators â€” implications for lung preservationâ˜†. European Journal of Cardio-thoracic Surgery, 2011, 40, 948-55.	0.6	19
30	Glycine Pretreatment Ameliorates Liver Injury After Partial Hepatectomy in the Rat. Journal of Investigative Surgery, 2010, 23, 12-20.	0.6	6
31	Use of a New Modified HTK Solution for Machine Preservation of Marginal Liver Grafts. Journal of Surgical Research, 2010, 160, 155-162.	0.8	36
32	No evidence for protective erythropoietin alpha signalling in rat hepatocytes. BMC Gastroenterology, 2009, 9, 26.	0.8	9
33	Conversion of the Synthetic Catalase Mimic Precursor TAAâ€¡ into the Active Catalase Mimic in Isolated Hepatocytes. Chemical Biology and Drug Design, 2009, 73, 494-501.	1.5	3
34	Gaseous oxygen persufflation or oxygenated machine perfusion with Custodiol-N for long-term preservation of ischemic rat livers?. Cryobiology, 2009, 58, 45-51.	0.3	22
35	Improved vessel preservation after 4 days of cold storage: Experimental study in rat arteries. Journal of Vascular Surgery, 2009, 50, 397-406.	0.6	39
36	Evaluation of a Modified HTK Solution Containing the New Iron Chelator LK 614 in an Isolated Rat Liver Perfusion Model. Journal of Investigative Surgery, 2009, 22, 340-347.	0.6	21

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37	Improvement of the cold storage of blood vessels with a vascular preservation solution. Study in porcine aortic segments. Journal of Vascular Surgery, 2008, 47, 422-431.	0.6	54
38	Endothelial Dysfunction After Long-term Cold Storage in HTK Organ Preservation Solutions: Effects of Iron Chelators and N-Î±-acetyl-l-histidine. Journal of Heart and Lung Transplantation, 2008, 27, 208-216.	0.3	37
39	Attenuated Cold Storage Injury of Rat Livers Using a Modified HTK Solution. Journal of Surgical Research, 2008, 146, 49-56.	0.8	20
40	Inherent toxicity of organ preservation solutions to cultured hepatocytes. Cryobiology, 2008, 56, 88-92.	0.3	27
41	Little evidence for a major role of Ca2+ in cold-induced injury of liver cells. Cryobiology, 2008, 56, 103-113.	0.3	6
42	Nitric oxide increases toxicity of hydrogen peroxide against rat liver endothelial cells and hepatocytes by inhibition of hydrogen peroxide degradation. American Journal of Physiology - Cell Physiology, 2007, 292, C1440-C1449.	2.1	24
43	Inhibitory and enhancing effects of NO on H2O2toxicity: Dependence on the concentrations of NO and H2O2. Free Radical Research, 2007, 41, 402-412.	1.5	3
44	Preclinical evaluation of coronary vascular function after cardioplegia with HTK and different antioxidant additives. European Journal of Cardio-thoracic Surgery, 2007, 31, 821-826.	0.6	29
45	Iron-dependent vs. iron-independent cold-induced injury to cultured rat hepatocytes: A comparative study in physiological media and organ preservation solutions. Cryobiology, 2007, 54, 77-86.	0.3	66
46	Assessment of Chelatable Mitochondrial Iron by Using Mitochondrion-Selective Fluorescent Iron Indicators with Different Iron-Binding Affinities. ChemBioChem, 2007, 8, 341-352.	1.3	93
47	Sodium as the major mediator of NO-induced cell death in cultured hepatocytes. Life Sciences, 2006, 79, 1606-1615.	2.0	8
48	Cold-Induced Injury to Porcine Corneal Endothelial Cells and Its Mediation by Chelatable Iron. Cornea, 2006, 25, 68-77.	0.9	45
49	Friedreich's Ataxia, No Changes in Mitochondrial Labile Iron in Human Lymphoblasts and Fibroblasts. Journal of Biological Chemistry, 2005, 280, 6701-6708.	1.6	68
50	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
51	Protection against iron- and hydrogen peroxide-dependent cell injuries by a novel synthetic iron catalase mimic and its precursor, the iron-free ligand. Free Radical Biology and Medicine, 2004, 37, 1369-1383.	1.3	16
52	Iron-induced mitochondrial permeability transition in cultured hepatocytes. Journal of Hepatology, 2004, 40, 607-615.	1.8	98
53	New Insights into the Cellular and Molecular Mechanisms of Cold Storage Injury. Journal of Investigative Medicine, 2004, 52, 299-309.	0.7	116
54	New Insights into the Cellular and Molecular Mechanisms of Cold Storage Injury. Journal of Investigative Medicine, 2004, 52, 299.	0.7	35

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55	Cold-induced apoptosis of hepatocytes: mitochondrial permeability transition triggered by nonmitochondrial chelatable iron. Free Radical Biology and Medicine, 2003, 35, 1664-1678.	1.3	67
56	Hypothermia causes a marked injury to rat proximal tubular cells that is aggravated by all currently used preservation solutions. Cryobiology, 2003, 47, 82-91.	0.3	40
57	Cold-induced apoptosis of rat liver endothelial cells: contribution of mitochondrial alterations. Transplantation, 2003, 76, 501-508.	0.5	37
58	Mammalian Cell Injury Induced by Hypothermia the Emerging Role for Reactive Oxygen Species. Biological Chemistry, 2002, 383, 477-88.	1.2	72
59	Selective determination of mitochondrial chelatable iron in viable cells with a new fluorescent sensor. Biochemical Journal, 2002, 362, 137-147.	1.7	115
60	The Chelatable Iron Pool in Living Cells: A Methodically Defined Quantity. Biological Chemistry, 2002, 383, 489-502.	1.2	184
61	Enhancement of iron toxicity in L929 cells by d-glucose: accelerated(re-)reduction. Biochemical Journal, 2002, 368, 517-526.	1.7	29
62	Cold-induced apoptosis of rat liver cells in University of Wisconsin solution: The central role of chelatable iron. Hepatology, 2002, 35, 560-567.	3.6	89
63	Subcellular distribution of chelatable iron: a laser scanning microscopic study in isolated hepatocytes and liver endothelial cells. Biochemical Journal, 2001, 356, 61-69.	1.7	175
64	A ROLE FOR SODIUM IN HYPOXIC BUT NOT IN HYPOTHERMIC INJURY TO HEPATOCYTES AND LLC-PK 1 CELLS1. Transplantation, 2000, 70, 723-730.	0.5	21
65	Hypothermia injury/coldâ€induced apoptosisâ€"evidence of an increase in chelatable iron causing oxidative injury in spite of low O 2 â˜ /H 2 O 2 formation. FASEB Journal, 2000, 14, 1953-1964.	0.2	186
66	Determination of the Chelatable Iron Pool of Single Intact Cells by Laser Scanning Microscopy. Archives of Biochemistry and Biophysics, 2000, 376, 74-81.	1.4	102
67	Protection by glycine against hypoxic injury of rat hepatocytes: inhibition of ion fluxes through nonspecific leaks. Journal of Hepatology, 2000, 32, 58-66.	1.8	92
68	Coldâ€induced apoptosis in cultured hepatocytes and liver endothelial cells: mediation by reactive oxygen species. FASEB Journal, 1999, 13, 155-168.	0.2	292
69	Determination of the chelatable iron pool of isolated rat hepatocytes by digital fluorescence microscopy using the fluorescent probe, phen green SK. Hepatology, 1999, 29, 1171-1179.	3.6	180
70	Protection against hydrogen peroxide cytotoxicity in Rat-1 fibroblasts provided by the oncoprotein Bcl-2: maintenance of calcium homoeostasis is secondary to the effect of Bcl-2 on cellular glutathione. Biochemical Journal, 1999, 340, 291-297.	1.7	38
71	Protection against hydrogen peroxide cytotoxicity in Rat-1 fibroblasts provided by the oncoprotein Bcl-2: maintenance of calcium homoeostasis is secondary to the effect of Bcl-2 on cellular glutathione. Biochemical Journal, 1999, 340, 291.	1.7	20
72	Auxiliary liver transplantation with arterialization of the portal vein for acute hepatic failure. Transplant International, 1998, 11, 266-271.	0.8	36

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73	Cold-Induced Release of Reactive Oxygen Species as a Decisive Mediator of Hypothermia Injury to Cultured Liver Cells. Free Radical Biology and Medicine, 1998, 24, 1316-1323.	1.3	78
74	COLD PRESERVATION OF ISOLATED RABBIT PROXIMAL TUBULES INDUCES RADICAL-MEDIATED CELL INJURY1. Transplantation, 1998, 65, 625-632.	0.5	42
75	Rapid decrease in cellular sodium and chloride content during cold incubation of cultured liver endothelial cells and hepatocytes. Biochemical Journal, 1997, 322, 693-699.	1.7	22
76	Endothelial Cell Toxicity of Preservation Solutions: Comparison of Endothelial Cells of Different Origin and Dependence on Growth State. Cryobiology, 1994, 31, 144-153.	0.3	19
77	ENERGY-DEPENDENT INJURY TO CULTURED SINUSOIDAL ENDOTHELIAL CELLS OF THE RAT LIVER IN UW SOLUTION. Transplantation, 1993, 55, 469-473.	0.5	52