John G Baust

List of Publications by Year in Descending Order

96 papers	3,791 citations	35 h-index	59 g-index
96 ext. papers	4,089 ext. citations	3 avg, IF	5.07 L-index

#	Paper	IF	Citations
96	Assessment of the Impact of Post-Thaw Stress Pathway Modulation on Cell Recovery following Cryopreservation in a Hematopoietic Progenitor Cell Model.. *Cells*, **2022**, 11,	7.9	1
95	An In Vitro Investigation into Cryoablation and Adjunctive Cryoablation/Chemotherapy Combination Therapy for the Treatment of Pancreatic Cancer Using the PANC-1 Cell Line.. *Biomedicines*, **2022**, 10,	4.8	2
94	Evaluation of a Novel Cystoscopic Compatible Cryocatheter for the Treatment of Bladder Cancer. *Bladder Cancer*, **2020**, 6, 303-318	1	1
93	Investigation of Bladder Cancer Cell Response to Cryoablation and Adjunctive Cisplatin Based Cryo/Chemotherapy. **2020**, 6,		2
92	Breast Cancer Cryoablation: Assessment of the Impact of Fundamental Procedural Variables in an In Vitro Human Breast Cancer Model. *Breast Cancer: Basic and Clinical Research*, **2020**, 14, 1178223420972363	2.2	3
91	Cryoablation: physical and molecular basis with putative immunological consequences. *International Journal of Hyperthermia*, **2019**, 36, 10-16	3.7	10
90	Models and Mechanisms of Tissue Injury in Cryosurgery **2018**, 591-617		1
89	Dose Escalation of Vitamin D Yields Similar Cryosurgical Outcome to Single Dose Exposure in a Prostate Cancer Model. *Cancer Control*, **2018**, 25, 1073274818757418	2.2	7
88	Defeating CancersSAdaptive Defensive Strategies Using Thermal Therapies: Examining CancersS Therapeutic Resistance, Ablative, and Computational Modeling Strategies as a means for Improving Therapeutic Outcome. *Technology in Cancer Research and Treatment*, **2018**, 17, 1533033818762207	2.7	10
87	Assessment of a novel cryoablation device for the endovascular treatment of cardiac tachyarrhythmias. *SAGE Open Medicine*, **2018**, 6, 2050312118769797	2.4	7
86	Characterization of Pancreatic Cancer Cell Thermal Response to Heat Ablation or Cryoablation. *Technology in Cancer Research and Treatment*, **2017**, 16, 393-405	2.7	12
85	The promise of organ and tissue preservation to transform medicine. *Nature Biotechnology*, **2017**, 35, 530-542	44.5	246
84	Integrating Molecular Control to Improve Cryopreservation Outcome. *Biopreservation and Biobanking*, **2017**, 15, 134-141	2.1	19
83	Assessment of Cryosurgical Device Performance Using a 3D Tissue-Engineered Cancer Model. *Technology in Cancer Research and Treatment*, **2017**, 16, 900-909	2.7	10
82	The Story of Adjuvants to Boost the Performance of Cryoablation. *Current Clinical Urology*, **2017**, 385-397		
81	Cryopreservation: Evolution of Molecular Based Strategies. *Advances in Experimental Medicine and Biology*, **2016**, 951, 13-29	3.6	19
80	Enhanced Cryoablative Methodologies. *Frontiers in Nanobiomedical Research*, **2016**, 3-24		

79	Investigation of the Impact of Cell Cycle Stage on Freeze Response Sensitivity of Androgen-Insensitive Prostate Cancer. *Technology in Cancer Research and Treatment*, **2016**, 15, 609-17	2.7	1
78	Principles of Cryoablation **2016**, 9-16		2
77	Biobanking: The Future of Cell Preservation Strategies. *Advances in Experimental Medicine and Biology*, **2015**, 864, 37-53	3.6	16
76	Characterization and modulation of human mesenchymal stem cell stress pathway response following hypothermic storage. *Cryobiology*, **2014**, 68, 215-26	2.7	19
75	Vitamin D(3) cryosensitization increases prostate cancer susceptibility to cryoablation via mitochondrial-mediated apoptosis and necrosis. *BJU International*, **2012**, 109, 949-58	5.6	22
74	The unfolded protein response in human corneal endothelial cells following hypothermic storage: implications of a novel stress pathway. *Cryobiology*, **2011**, 63, 46-55	2.7	26
73	Mechanisms of Cryoablation **2011**, 13-21		2
72	Cell Preservation Technology **2011**, 154-165		
71	Morphology of hypoxia following cryoablation in a prostate cancer murine model: its relationship to necrosis, apoptosis and, microvessel density. *Cryobiology*, **2010**, 61, 148-54	2.7	15
70	Role of vitamin D(3) as a sensitizer to cryoablation in a murine prostate cancer model: preliminary in vivo study. *Urology*, **2010**, 76, 764.e14-20	1.6	17
69	In Vitro Assessment of Apoptosis and Necrosis Following Cold Storage in a Human Airway Cell Model. *Biopreservation and Biobanking*, **2009**, 7, 19-27	2.1	9
68	Changing paradigms in biopreservation. *Biopreservation and Biobanking*, **2009**, 7, 3-12	2.1	22
67	Cryopreservation: An emerging paradigm change. *Organogenesis*, **2009**, 5, 90-6	1.7	130
66	The pathophysiology of thermoablation: optimizing cryoablation. *Current Opinion in Urology*, **2009**, 19, 127-32	2.8	48
65	Cryoablative response of prostate cancer cells is influenced by androgen receptor expression. *BJU International*, **2008**, 101, 1310-6	5.6	30
64	Best practice statement on cryosurgery for the treatment of localized prostate cancer. *Journal of Urology*, **2008**, 180, 1993-2004	2.5	188
63	Cryosurgery for tumors. *Journal of the American College of Surgeons*, **2007**, 205, 342-56	4.4	95
62	Development of a tissue engineered human prostate tumor equivalent for use in the evaluation of cryoablative techniques. *Technology in Cancer Research and Treatment*, **2007**, 6, 81-9	2.7	18

61	Cryoablation of renal cancer: variables involved in freezing-induced cell death. *Technology in Cancer Research and Treatment*, **2007**, 6, 69-79	2.7	48
60	Cryoablation induces necrosis and apoptosis in lung adenocarcinoma in mice. *Technology in Cancer Research and Treatment*, **2007**, 6, 635-40	2.7	15
59	Cryosurgical technique: assessment of the fundamental variables using human prostate cancer model systems. *Cryobiology*, **2007**, 55, 189-99	2.7	57
58	Enhanced Hypothermic Storage of Neonatal Cardiomyocytes. *Cell Preservation Technology*, **2005**, 3, 61-74		10
57	The molecular basis of cryosurgery. *BJU International*, **2005**, 95, 1187-91	5.6	261
56	Cell preservation in reparative and regenerative medicine: evolution of individualized solution composition. *Tissue Engineering*, **2004**, 10, 1662-71		44
55	Cryosurgery for tumors - a clinical overview. *Technology in Cancer Research and Treatment*, **2004**, 3, 187-99	2.7	54
54	Cryosurgery--a putative approach to molecular-based optimization. *Cryobiology*, **2004**, 48, 190-204	2.7	103
53	Addition of anticancer agents enhances freezing-induced prostate cancer cell death: implications of mitochondrial involvement. *Cryobiology*, **2004**, 49, 45-61	2.7	68
52	Improved Hypothermic Preservation of Human Renal Cells Through Suppression of Both Apoptosis and Necrosis. *Cell Preservation Technology*, **2002**, 1, 239-253		27
51	Gene Activation of the Apoptotic Caspase Cascade Following Cryogenic Storage. *Cell Preservation Technology*, **2002**, 1, 63-80		46
50	Cellular Components of the Coronary Vasculature Exhibit Differential Sensitivity to Low Temperature Insult. *Cell Preservation Technology*, **2002**, 1, 269-280		10
49	Modulation of the cryopreservation cap: elevated survival with reduced dimethyl sulfoxide concentration. *Cryobiology*, **2002**, 45, 97-108	2.7	40
48	Cryosurgery - a review of recent advances and current issues. *Cryo-Letters*, **2002**, 23, 69-78	0.3	37
47	A Molecular Basis of Cryopreservation Failure and its Modulation to Improve Cell Survival. *Cell Transplantation*, **2001**, 10, 561-571	4	120
46	Chemo-cryo combination therapy: an adjunctive model for the treatment of prostate cancer. *Cryobiology*, **2001**, 42, 274-85	2.7	101
45	Cell viability improves following inhibition of cryopreservation-induced apoptosis. *In Vitro Cellular and Developmental Biology - Animal*, **2000**, 36, 262-70	2.6	145
44	CELL VIABILITY IMPROVES FOLLOWING INHIBITION OF CRYOPRESERVATION-INDUCED APOPTOSIS. *In Vitro Cellular and Developmental Biology - Animal*, **2000**, 36, 262-270	2.6	12

43	Cold-Storage of Synthetic Human Epidermis in HypoThermosol. *Tissue Engineering*, **1995**, 1, 361-77		13
42	Asanguineous whole body perfusion with a new intracellular acellular solution and ultraprofound hypothermia provides cellular protection during 3.5 hours of cardiac arrest in a canine model. *ASAIO Journal*, **1994**, 40, M351-8	3.6	15
41	Loss of Ice-Nucleating Activity and Avoidance of Inoculative Freezing with Puparium Formation Induced by 20-Hydroxyecdysone in Eurosta solidaginis(Diptera:Tephritidae). *Applied Entomology and Zoology*, **1993**, 28, 547-555	1.5	1
40	Biochemical modification of plasma ice nucleating activity in a freeze-tolerant frog. *Cryobiology*, **1992**, 29, 374-84	2.7	26
39	Physical aging of the glassy state: sub-Tg ice nucleation in aqueous sorbitol systems. *Journal of Non-Crystalline Solids*, **1991**, 130, 198-203	3.9	15
38	Physical aging of glassy state: DSC study of vitrified glycerol systems. *Cryobiology*, **1991**, 28, 87-95	2.7	33
37	Further inquiry into the cryobehavior of aqueous solutions of glycerol. *Cryobiology*, **1991**, 28, 268-278	2.7	18
36	Freezing Tolerance in the Goldenrod Gall Fly (Eurosta solidaginis) **1991**, 260-275		12
35	Ice nucleating activity in the blood of the freeze-tolerant frog, Rana sylvatica. *Cryobiology*, **1990**, 27, 328-35	2.7	45
34	Differential scanning calorimetric analysis of antifreeze protein activity in the common mealworm, Tenebrio molitor. *BBA - Proteins and Proteomics*, **1988**, 957, 217-21		39
33	Partial glass formation: A novel mechanism of insect cryoprotection. *Cryobiology*, **1988**, 25, 451-458	2.7	28
32	Effects of temperature cycling on cryoprotectant profiles in the goldenrod gall fly, Eurosta solidaginis (Fitch). *Journal of Insect Physiology*, **1988**, 34, 767-771	2.4	26
31	Multiple stress tolerance in an antarctic terrestrial arthropod: Belgica antarctica. *Cryobiology*, **1987**, 24, 140-147	2.7	27
30	Cold-Hardiness in the Antarctic Tick, Ixodes uriae. *Physiological Zoology*, **1987**, 60, 499-506		68
29	The fate of [14C]glucose during cold-hardening in Eurosta solidaginis (Fitch). *Insect Biochemistry*, **1987**, 17, 347-352		24
28	An Evaluation of Eluent Recycling and Column Life for HPLC Analysis of Carbohydrates. *Journal of Liquid Chromatography and Related Technologies*, **1983**, 6, 1139-1151		17
27	Population Differences in Antifreeze/Cryoprotectant Accumulation Patterns in an Antarctic Insect. *Oikos*, **1983**, 40, 120	4	27
26	Temperature dependence-independence of antifreeze turnover in Eurosta solidaginis (Fitch). *Journal of Insect Physiology*, **1983**, 29, 865-869	2.4	39

25	Protective agents: regulation of synthesis. *Cryobiology*, **1983**, 20, 357-64	2.7	22
24	Ecophysiological studies on arthropods from Spitsbergen. *Polar Research*, **1983**, 1, 235-240	2	17
23	Ecophysiological studies on arthropods from Spitsbergen. *Polar Research*, **1983**, 1, 235-240	2	20
22	Differential Binding of Sugars and Polyhydric Alcohols to Ion Exchange Resins: Inappropriateness for Quantitative HPLC. *Journal of Liquid Chromatography and Related Technologies*, **1982**, 5, 767-779		10
21	Environmental triggers to cold hardening. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1982**, 73, 563-570		58
20	Environmental triggers to cryoprotectant modulation in separate populations of the gall fly, Eurost a solidaginis (Fitch). *Journal of Insect Physiology*, **1982**, 28, 431-436	2.4	55
19	Absence of metabolic cold adaptation and compensatory acclimation in the Antarctic fly, Belgica antarctica. *Journal of Insect Physiology*, **1982**, 28, 725-729	2.4	36
18	A method for quantitative determination of ice nucleating agents in insect hemolymph. *Cryobiology* , **1982**, 19, 180-4	2.7	88
17	Respiratory metabolism of the antarctic tick, Ixodes uriae. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1982**, 72, 167-171		30
16	Biochemical correlates to cold hardening in insects. *Cryobiology*, **1981**, 18, 186-98	2.7	63
15	Determination of water "bound" by soluble subcellular components during low-temperature acclimation in the gall fly larva, Eurosta solidagensis. *Cryobiology*, **1981**, 18, 315-21	2.7	62
14	Divergent mechanisms of frost-hardiness in two populations of the gall fly, Eurosta solidaginsis. *Journal of Insect Physiology*, **1981**, 27, 485-490	2.4	76
13	Effect of cryoprotectants on the activity of hemolymph nucleating agents in physical solutions. *Cryobiology*, **1981**, 18, 511-4	2.7	30
12	Intermediary metabolism during low temperature acclimation in the overwintering gall fly larva,Eurosta solidaginis. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **1981**, 144, 183-190	2.2	123
11	Ontogenetic variability of chill tolerance in larval Artemia salina. *Aquaculture*, **1980**, 20, 305-311	4.4	3
10	Heterothermy and cold acclimation in the arctic ground squirrel, Citellus undulatus. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1980**, 67, 447-452		10
9	Variations in myocardial CPK and Na+-K+ ATPase following normo- and hypothermic exposure to dimethyl sulfoxide and glycerol. *Cryobiology*, **1979**, 16, 166-70	2.7	
8	The Diversity of Overwintering Strategies Utilized by Separate Populations of Gall Insects. *Physiological Zoology*, **1979**, 52, 572-580		48

7	Mechanisms of freezing tolerance in an Antarctic midge, Belgica antarctica. *Physiological Entomology*, **1979**, 4, 1-5	1.9	84
6	Temperature Buffering in an Arctic Microhabitat1. *Annals of the Entomological Society of America*, **1976**, 69, 117-119	2	14
5	Supercooling phenomenon and water content independence in the overwintering beetle, Coleomegilla maculata. *Journal of Insect Physiology*, **1975**, 21, 1751-1754	2.4	39
4	Mechanisms of cryoprotection in freezing tolerant animal systems. *Cryobiology*, **1973**, 10, 197-205	2.7	91
3	Insect freezing protection in Pterostichus brevicornis (Carabidae). *Nature: New Biology*, **1972**, 236, 219-21		9
2	Temperature-induced neural adaptations motoneuron discharge in the alaskan beetle Pterostichus brevicornis (Carabidae). *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1972**, 41, 205-213		11
1	Variations in glycerol content and its influence on cold hardiness in the Alaskan carabid beetle, Pterostichus brevicornis. *Journal of Insect Physiology*, **1970**, 16, 979-90	2.4	111