

# John G Baust

## List of Publications by Citations

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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	The molecular basis of cryosurgery. <i>BJU International</i> , <b>2005</b> , 95, 1187-91	5.6	261
95	The promise of organ and tissue preservation to transform medicine. <i>Nature Biotechnology</i> , <b>2017</b> , 35, 530-542	44.5	246
94	Best practice statement on cryosurgery for the treatment of localized prostate cancer. <i>Journal of Urology</i> , <b>2008</b> , 180, 1993-2004	2.5	188
93	Cell viability improves following inhibition of cryopreservation-induced apoptosis. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2000</b> , 36, 262-70	2.6	145
92	Cryopreservation: An emerging paradigm change. <i>Organogenesis</i> , <b>2009</b> , 5, 90-6	1.7	130
91	Intermediary metabolism during low temperature acclimation in the overwintering gall fly larva, <i>Eurosta solidaginis</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>1981</b> , 144, 183-190	2.2	123
90	A Molecular Basis of Cryopreservation Failure and its Modulation to Improve Cell Survival. <i>Cell Transplantation</i> , <b>2001</b> , 10, 561-571	4	120
89	Variations in glycerol content and its influence on cold hardiness in the Alaskan carabid beetle, <i>Pterostichus brevicornis</i> . <i>Journal of Insect Physiology</i> , <b>1970</b> , 16, 979-90	2.4	111
88	Cryosurgery--a putative approach to molecular-based optimization. <i>Cryobiology</i> , <b>2004</b> , 48, 190-204	2.7	103
87	Chemo-cryo combination therapy: an adjunctive model for the treatment of prostate cancer. <i>Cryobiology</i> , <b>2001</b> , 42, 274-85	2.7	101
86	Cryosurgery for tumors. <i>Journal of the American College of Surgeons</i> , <b>2007</b> , 205, 342-56	4.4	95
85	Mechanisms of cryoprotection in freezing tolerant animal systems. <i>Cryobiology</i> , <b>1973</b> , 10, 197-205	2.7	91
84	A method for quantitative determination of ice nucleating agents in insect hemolymph. <i>Cryobiology</i> , <b>1982</b> , 19, 180-4	2.7	88
83	Mechanisms of freezing tolerance in an Antarctic midge, <i>Belgica antarctica</i> . <i>Physiological Entomology</i> , <b>1979</b> , 4, 1-5	1.9	84
82	Divergent mechanisms of frost-hardiness in two populations of the gall fly, <i>Eurosta solidaginis</i> . <i>Journal of Insect Physiology</i> , <b>1981</b> , 27, 485-490	2.4	76
81	Addition of anticancer agents enhances freezing-induced prostate cancer cell death: implications of mitochondrial involvement. <i>Cryobiology</i> , <b>2004</b> , 49, 45-61	2.7	68
80	Cold-Hardiness in the Antarctic Tick, <i>Ixodes uriae</i> . <i>Physiological Zoology</i> , <b>1987</b> , 60, 499-506		68

79	Biochemical correlates to cold hardening in insects. <i>Cryobiology</i> , <b>1981</b> , 18, 186-98	2.7	63
78	Determination of water "bound" by soluble subcellular components during low-temperature acclimation in the gall fly larva, <i>Eurosta solidaginis</i> . <i>Cryobiology</i> , <b>1981</b> , 18, 315-21	2.7	62
77	Environmental triggers to cold hardening. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1982</b> , 73, 563-570		58
76	Cryosurgical technique: assessment of the fundamental variables using human prostate cancer model systems. <i>Cryobiology</i> , <b>2007</b> , 55, 189-99	2.7	57
75	Environmental triggers to cryoprotectant modulation in separate populations of the gall fly, <i>Eurosta solidaginis</i> (Fitch). <i>Journal of Insect Physiology</i> , <b>1982</b> , 28, 431-436	2.4	55
74	Cryosurgery for tumors - a clinical overview. <i>Technology in Cancer Research and Treatment</i> , <b>2004</b> , 3, 187- <del>99</del> 7		54
73	The pathophysiology of thermoablation: optimizing cryoablation. <i>Current Opinion in Urology</i> , <b>2009</b> , 19, 127-32	2.8	48
72	Cryoablation of renal cancer: variables involved in freezing-induced cell death. <i>Technology in Cancer Research and Treatment</i> , <b>2007</b> , 6, 69-79	2.7	48
71	The Diversity of Overwintering Strategies Utilized by Separate Populations of Gall Insects. <i>Physiological Zoology</i> , <b>1979</b> , 52, 572-580		48
70	Gene Activation of the Apoptotic Caspase Cascade Following Cryogenic Storage. <i>Cell Preservation Technology</i> , <b>2002</b> , 1, 63-80		46
69	Ice nucleating activity in the blood of the freeze-tolerant frog, <i>Rana sylvatica</i> . <i>Cryobiology</i> , <b>1990</b> , 27, 328- <del>35</del> 35		45
68	Cell preservation in reparative and regenerative medicine: evolution of individualized solution composition. <i>Tissue Engineering</i> , <b>2004</b> , 10, 1662-71		44
67	Modulation of the cryopreservation cap: elevated survival with reduced dimethyl sulfoxide concentration. <i>Cryobiology</i> , <b>2002</b> , 45, 97-108	2.7	40
66	Differential scanning calorimetric analysis of antifreeze protein activity in the common mealworm, <i>Tenebrio molitor</i> . <i>BBA - Proteins and Proteomics</i> , <b>1988</b> , 957, 217-21		39
65	Temperature dependence-independence of antifreeze turnover in <i>Eurosta solidaginis</i> (Fitch). <i>Journal of Insect Physiology</i> , <b>1983</b> , 29, 865-869	2.4	39
64	Supercooling phenomenon and water content independence in the overwintering beetle, <i>Coleomegilla maculata</i> . <i>Journal of Insect Physiology</i> , <b>1975</b> , 21, 1751-1754	2.4	39
63	Cryosurgery - a review of recent advances and current issues. <i>Cryo-Letters</i> , <b>2002</b> , 23, 69-78	0.3	37
62	Absence of metabolic cold adaptation and compensatory acclimation in the Antarctic fly, <i>Belgica antarctica</i> . <i>Journal of Insect Physiology</i> , <b>1982</b> , 28, 725-729	2.4	36

61	Physical aging of glassy state: DSC study of vitrified glycerol systems. <i>Cryobiology</i> , <b>1991</b> , 28, 87-95	2.7	33
60	Cryoablative response of prostate cancer cells is influenced by androgen receptor expression. <i>BJU International</i> , <b>2008</b> , 101, 1310-6	5.6	30
59	Effect of cryoprotectants on the activity of hemolymph nucleating agents in physical solutions. <i>Cryobiology</i> , <b>1981</b> , 18, 511-4	2.7	30
58	Respiratory metabolism of the antarctic tick, <i>Ixodes uriae</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1982</b> , 72, 167-171		30
57	Partial glass formation: A novel mechanism of insect cryoprotection. <i>Cryobiology</i> , <b>1988</b> , 25, 451-458	2.7	28
56	Improved Hypothermic Preservation of Human Renal Cells Through Suppression of Both Apoptosis and Necrosis. <i>Cell Preservation Technology</i> , <b>2002</b> , 1, 239-253		27
55	Multiple stress tolerance in an antarctic terrestrial arthropod: <i>Belgica antarctica</i> . <i>Cryobiology</i> , <b>1987</b> , 24, 140-147	2.7	27
54	Population Differences in Antifreeze/Cryoprotectant Accumulation Patterns in an Antarctic Insect. <i>Oikos</i> , <b>1983</b> , 40, 120	4	27
53	The unfolded protein response in human corneal endothelial cells following hypothermic storage: implications of a novel stress pathway. <i>Cryobiology</i> , <b>2011</b> , 63, 46-55	2.7	26
52	Biochemical modification of plasma ice nucleating activity in a freeze-tolerant frog. <i>Cryobiology</i> , <b>1992</b> , 29, 374-84	2.7	26
51	Effects of temperature cycling on cryoprotectant profiles in the goldenrod gall fly, <i>Eurosta solidaginis</i> (Fitch). <i>Journal of Insect Physiology</i> , <b>1988</b> , 34, 767-771	2.4	26
50	The fate of [ <sup>14</sup> C]glucose during cold-hardening in <i>Eurosta solidaginis</i> (Fitch). <i>Insect Biochemistry</i> , <b>1987</b> , 17, 347-352		24
49	Vitamin D(3) cryosensitization increases prostate cancer susceptibility to cryoablation via mitochondrial-mediated apoptosis and necrosis. <i>BJU International</i> , <b>2012</b> , 109, 949-58	5.6	22
48	Changing paradigms in biopreservation. <i>Biopreservation and Biobanking</i> , <b>2009</b> , 7, 3-12	2.1	22
47	Protective agents: regulation of synthesis. <i>Cryobiology</i> , <b>1983</b> , 20, 357-64	2.7	22
46	Ecophysiological studies on arthropods from Spitsbergen. <i>Polar Research</i> , <b>1983</b> , 1, 235-240	2	20
45	Integrating Molecular Control to Improve Cryopreservation Outcome. <i>Biopreservation and Biobanking</i> , <b>2017</b> , 15, 134-141	2.1	19
44	Cryopreservation: Evolution of Molecular Based Strategies. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 951, 13-29	3.6	19

43	Characterization and modulation of human mesenchymal stem cell stress pathway response following hypothermic storage. <i>Cryobiology</i> , <b>2014</b> , 68, 215-26	2.7	19
42	Development of a tissue engineered human prostate tumor equivalent for use in the evaluation of cryoablative techniques. <i>Technology in Cancer Research and Treatment</i> , <b>2007</b> , 6, 81-9	2.7	18
41	Further inquiry into the cryobehavior of aqueous solutions of glycerol. <i>Cryobiology</i> , <b>1991</b> , 28, 268-278	2.7	18
40	Role of vitamin D(3) as a sensitizer to cryoablation in a murine prostate cancer model: preliminary in vivo study. <i>Urology</i> , <b>2010</b> , 76, 764.e14-20	1.6	17
39	An Evaluation of Eluent Recycling and Column Life for HPLC Analysis of Carbohydrates. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1983</b> , 6, 1139-1151		17
38	Ecophysiological studies on arthropods from Spitsbergen. <i>Polar Research</i> , <b>1983</b> , 1, 235-240	2	17
37	Biobanking: The Future of Cell Preservation Strategies. <i>Advances in Experimental Medicine and Biology</i> , <b>2015</b> , 864, 37-53	3.6	16
36	Morphology of hypoxia following cryoablation in a prostate cancer murine model: its relationship to necrosis, apoptosis and, microvessel density. <i>Cryobiology</i> , <b>2010</b> , 61, 148-54	2.7	15
35	Cryoablation induces necrosis and apoptosis in lung adenocarcinoma in mice. <i>Technology in Cancer Research and Treatment</i> , <b>2007</b> , 6, 635-40	2.7	15
34	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. <i>ASAIO Journal</i> , <b>1994</b> , 40, M351-8	3.6	15
33	Physical aging of the glassy state: sub-T <sub>g</sub> ice nucleation in aqueous sorbitol systems. <i>Journal of Non-Crystalline Solids</i> , <b>1991</b> , 130, 198-203	3.9	15
32	Temperature Buffering in an Arctic Microhabitat <sup>1</sup> . <i>Annals of the Entomological Society of America</i> , <b>1976</b> , 69, 117-119	2	14
31	Cold-Storage of Synthetic Human Epidermis in HypoThermosol. <i>Tissue Engineering</i> , <b>1995</b> , 1, 361-77		13
30	Characterization of Pancreatic Cancer Cell Thermal Response to Heat Ablation or Cryoablation. <i>Technology in Cancer Research and Treatment</i> , <b>2017</b> , 16, 393-405	2.7	12
29	CELL VIABILITY IMPROVES FOLLOWING INHIBITION OF CRYOPRESERVATION-INDUCED APOPTOSIS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2000</b> , 36, 262-270	2.6	12
28	Freezing Tolerance in the Goldenrod Gall Fly ( <i>Eurosta solidaginis</i> ) <b>1991</b> , 260-275		12
27	Temperature-induced neural adaptations motoneuron discharge in the alaskan beetle <i>Pterostichus brevicornis</i> (Carabidae). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1972</b> , 41, 205-213		11
26	Defeating Cancers Adaptive Defensive Strategies Using Thermal Therapies: Examining Cancer's Therapeutic Resistance, Ablative, and Computational Modeling Strategies as a means for Improving Therapeutic Outcome. <i>Technology in Cancer Research and Treatment</i> , <b>2018</b> , 17, 1533033818762207	2.7	10

25	Assessment of Cryosurgical Device Performance Using a 3D Tissue-Engineered Cancer Model. <i>Technology in Cancer Research and Treatment</i> , <b>2017</b> , 16, 900-909	2.7	10
24	Enhanced Hypothermic Storage of Neonatal Cardiomyocytes. <i>Cell Preservation Technology</i> , <b>2005</b> , 3, 61-74		10
23	Cellular Components of the Coronary Vasculature Exhibit Differential Sensitivity to Low Temperature Insult. <i>Cell Preservation Technology</i> , <b>2002</b> , 1, 269-280		10
22	Heterothermy and cold acclimation in the arctic ground squirrel, <i>Citellus undulatus</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , <b>1980</b> , 67, 447-452		10
21	Differential Binding of Sugars and Polyhydric Alcohols to Ion Exchange Resins: Inappropriateness for Quantitative HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , <b>1982</b> , 5, 767-779		10
20	Cryoablation: physical and molecular basis with putative immunological consequences. <i>International Journal of Hyperthermia</i> , <b>2019</b> , 36, 10-16	3.7	10
19	In Vitro Assessment of Apoptosis and Necrosis Following Cold Storage in a Human Airway Cell Model. <i>Biopreservation and Biobanking</i> , <b>2009</b> , 7, 19-27	2.1	9
18	Insect freezing protection in <i>Pterostichus brevicornis</i> (Carabidae). <i>Nature: New Biology</i> , <b>1972</b> , 236, 219-21		9
17	Dose Escalation of Vitamin D Yields Similar Cryosurgical Outcome to Single Dose Exposure in a Prostate Cancer Model. <i>Cancer Control</i> , <b>2018</b> , 25, 1073274818757418	2.2	7
16	Assessment of a novel cryoablation device for the endovascular treatment of cardiac tachyarrhythmias. <i>SAGE Open Medicine</i> , <b>2018</b> , 6, 2050312118769797	2.4	7
15	Ontogenetic variability of chill tolerance in larval <i>Artemia salina</i> . <i>Aquaculture</i> , <b>1980</b> , 20, 305-311	4.4	3
14	Breast Cancer Cryoablation: Assessment of the Impact of Fundamental Procedural Variables in an In Vitro Human Breast Cancer Model. <i>Breast Cancer: Basic and Clinical Research</i> , <b>2020</b> , 14, 1178223420972363	2.2	3
13	Mechanisms of Cryoablation <b>2011</b> , 13-21		2
12	Investigation of Bladder Cancer Cell Response to Cryoablation and Adjunctive Cisplatin Based Cryo/Chemotherapy. <b>2020</b> , 6,		2
11	Principles of Cryoablation <b>2016</b> , 9-16		2
10	An In Vitro Investigation into Cryoablation and Adjunctive Cryoablation/Chemotherapy Combination Therapy for the Treatment of Pancreatic Cancer Using the PANC-1 Cell Line.. <i>Biomedicines</i> , <b>2022</b> , 10,	4.8	2
9	Models and Mechanisms of Tissue Injury in Cryosurgery <b>2018</b> , 591-617		1
8	Assessment of the Impact of Post-Thaw Stress Pathway Modulation on Cell Recovery following Cryopreservation in a Hematopoietic Progenitor Cell Model.. <i>Cells</i> , <b>2022</b> , 11,	7.9	1

7	Loss of Ice-Nucleating Activity and Avoidance of Inoculative Freezing with Puparium Formation Induced by 20-Hydroxyecdysone in <i>Eurosta solidaginis</i> (Diptera:Tephritidae). <i>Applied Entomology and Zoology</i> , <b>1993</b> , 28, 547-555	1.5	1
6	Evaluation of a Novel Cystoscopic Compatible Cryocatheter for the Treatment of Bladder Cancer. <i>Bladder Cancer</i> , <b>2020</b> , 6, 303-318	1	1
5	Investigation of the Impact of Cell Cycle Stage on Freeze Response Sensitivity of Androgen-Insensitive Prostate Cancer. <i>Technology in Cancer Research and Treatment</i> , <b>2016</b> , 15, 609-17	2.7	1
4	Enhanced Cryoablative Methodologies. <i>Frontiers in Nanobiomedical Research</i> , <b>2016</b> , 3-24		
3	Variations in myocardial CPK and Na <sup>+</sup> -K <sup>+</sup> ATPase following normo- and hypothermic exposure to dimethyl sulfoxide and glycerol. <i>Cryobiology</i> , <b>1979</b> , 16, 166-70	2.7	
2	The Story of Adjuvants to Boost the Performance of Cryoablation. <i>Current Clinical Urology</i> , <b>2017</b> , 385-397		
1	Cell Preservation Technology <b>2011</b> , 154-165		