

# John G Baust

## List of Publications by Year in descending order

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95  
papers

4,581  
citations

101535

36  
h-index

106340

65  
g-index

96  
all docs

96  
docs citations

96  
times ranked

2809  
citing authors

#	ARTICLE	IF	CITATIONS
1	The promise of organ and tissue preservation to transform medicine. <i>Nature Biotechnology</i> , 2017, 35, 530-542.	17.5	371
2	The molecular basis of cryosurgery. <i>BJU International</i> , 2005, 95, 1187-1191.	2.5	314
3	Best Practice Statement on Cryosurgery for the Treatment of Localized Prostate Cancer. <i>Journal of Urology</i> , 2008, 180, 1993-2004.	0.4	219
4	Cryopreservation. <i>Organogenesis</i> , 2009, 5, 90-96.	1.2	180
5	CELL VIABILITY IMPROVES FOLLOWING INHIBITION OF CRYOPRESERVATION-INDUCED APOPTOSIS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2000, 36, 262.	1.5	161
6	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> , 1981, 144, 183-190.	1.5	134
7	A Molecular Basis of Cryopreservation Failure and its Modulation to Improve Cell Survival. <i>Cell Transplantation</i> , 2001, 10, 561-571.	2.5	134
8	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> , 1970, 16, 979-990.	2.0	120
9	CELL VIABILITY IMPROVES FOLLOWING INHIBITION OF CRYOPRESERVATION-INDUCED APOPTOSIS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2000, 36, 262-270.	1.5	115
10	Cryosurgery—a putative approach to molecular-based optimization. <i>Cryobiology</i> , 2004, 48, 190-204.	0.7	112
11	Cryosurgery for Tumors. <i>Journal of the American College of Surgeons</i> , 2007, 205, 342-356.	0.5	109
12	Chemo-Cryo Combination Therapy: An Adjunctive Model for the Treatment of Prostate Cancer. <i>Cryobiology</i> , 2001, 42, 274-285.	0.7	107
13	Mechanisms of cryoprotection in freezing tolerant animal systems. <i>Cryobiology</i> , 1973, 10, 197-205.	0.7	99
14	Mechanisms of freezing tolerance in an Antarctic midge, <i>Belgica antarctica</i> . <i>Physiological Entomology</i> , 1979, 4, 1-5.	1.5	93
15	A method for quantitative determination of ice nucleating agents in insect hemolymph. <i>Cryobiology</i> , 1982, 19, 180-184.	0.7	93
16	Divergent mechanisms of frost-hardiness in two populations of the gall fly, <i>Eurosta solidaginis</i> . <i>Journal of Insect Physiology</i> , 1981, 27, 485-490.	2.0	84
17	Cold-Hardiness in the Antarctic Tick, <i>Ixodes uriae</i> . <i>Physiological Zoology</i> , 1987, 60, 499-506.	1.5	78
18	Addition of anticancer agents enhances freezing-induced prostate cancer cell death: implications of mitochondrial involvement. <i>Cryobiology</i> , 2004, 49, 45-61.	0.7	71

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19	Cryosurgery for Tumors – A Clinical Overview. <i>Technology in Cancer Research and Treatment</i> , 2004, 3, 187-199.	1.9	70
20	Determination of water –bound– by soluble subcellular components during low-temperature acclimation in the gall fly larva, <i>Eurosta solidaginis</i> . <i>Cryobiology</i> , 1981, 18, 315-321.	0.7	69
21	Biochemical correlates to cold hardening in insects. <i>Cryobiology</i> , 1981, 18, 186-198.	0.7	68
22	Cryosurgical technique: Assessment of the fundamental variables using human prostate cancer model systems. <i>Cryobiology</i> , 2007, 55, 189-199.	0.7	66
23	Environmental triggers to cold hardening. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1982, 73, 563-570.	0.6	65
24	Cryoablation of Renal Cancer: Variables Involved in Freezing-Induced Cell Death. <i>Technology in Cancer Research and Treatment</i> , 2007, 6, 69-79.	1.9	62
25	Environmental triggers to cryoprotectant modulation in separate populations of the gall fly, <i>Eurosta solidaginis</i> (Fitch). <i>Journal of Insect Physiology</i> , 1982, 28, 431-436.	2.0	57
26	The pathophysiology of thermoablation: optimizing cryoablation. <i>Current Opinion in Urology</i> , 2009, 19, 127-132.	1.8	56
27	The Diversity of Overwintering Strategies Utilized by Separate Populations of Gall Insects. <i>Physiological Zoology</i> , 1979, 52, 572-580.	1.5	55
28	Cell Preservation in Reparative and Regenerative Medicine: Evolution of Individualized Solution Composition. <i>Tissue Engineering</i> , 2004, 10, 1662-1671.	4.6	54
29	Ice nucleating activity in the blood of the freeze-tolerant frog, <i>Rana sylvatica</i> . <i>Cryobiology</i> , 1990, 27, 328-335.	0.7	52
30	Gene Activation of the Apoptotic Caspase Cascade Following Cryogenic Storage. <i>Cell Preservation Technology</i> , 2002, 1, 63-80.	0.6	51
31	Differential scanning calorimetric analysis of antifreeze protein activity in the common mealworm, <i>Tenebrio molitor</i> . <i>BBA - Proteins and Proteomics</i> , 1988, 957, 217-221.	2.1	45
32	Modulation of the cryopreservation cap: elevated survival with reduced dimethyl sulfoxide concentration. <i>Cryobiology</i> , 2002, 45, 97-108.	0.7	44
33	Cryosurgery - a review of recent advances and current issues. <i>Cryo-Letters</i> , 2002, 23, 69-78.	0.3	44
34	Supercooling phenomenon and water content independence in the overwintering beetle, <i>Coleomegilla maculata</i> . <i>Journal of Insect Physiology</i> , 1975, 21, 1751-1754.	2.0	42
35	Temperature dependence-independence of antifreeze turnover in <i>Eurosta solidaginis</i> (Fitch). <i>Journal of Insect Physiology</i> , 1983, 29, 865-869.	2.0	40
36	Absence of metabolic cold adaptation and compensatory acclimation in the Antarctic fly, <i>Belgica antarctica</i> . <i>Journal of Insect Physiology</i> , 1982, 28, 725-729.	2.0	38

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37	Effect of cryoprotectants on the activity of hemolymph nucleating agents in physical solutions. <i>Cryobiology</i> , 1981, 18, 511-514.	0.7	36
38	Cryoablation: physical and molecular basis with putative immunological consequences. <i>International Journal of Hyperthermia</i> , 2019, 36, 10-16.	2.5	36
39	Respiratory metabolism of the antarctic tick, <i>Ixodes uriae</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1982, 72, 167-171.	0.6	35
40	Physical aging of glassy state: DSC study of vitrified glycerol systems. <i>Cryobiology</i> , 1991, 28, 87-95.	0.7	35
41	Cryoablative response of prostate cancer cells is influenced by androgen receptor expression. <i>BJU International</i> , 2008, 101, 1310-1316.	2.5	35
42	Population Differences in Antifreeze/Cryoprotectant Accumulation Patterns in an Antarctic Insect. <i>Oikos</i> , 1983, 40, 120.	2.7	32
43	Multiple stress tolerance in an antarctic terrestrial arthropod: <i>Belgica antarctica</i> . <i>Cryobiology</i> , 1987, 24, 140-147.	0.7	31
44	Partial glass formation: A novel mechanism of insect cryoprotection. <i>Cryobiology</i> , 1988, 25, 451-458.	0.7	31
45	Improved Hypothermic Preservation of Human Renal Cells Through Suppression of Both Apoptosis and Necrosis. <i>Cell Preservation Technology</i> , 2002, 1, 239-253.	0.6	31
46	The unfolded protein response in human corneal endothelial cells following hypothermic storage: Implications of a novel stress pathway. <i>Cryobiology</i> , 2011, 63, 46-55.	0.7	30
47	Vitamin D <sub>3</sub> cryosensitization increases prostate cancer susceptibility to cryoablation via mitochondrial-mediated apoptosis and necrosis. <i>BJU International</i> , 2012, 109, 949-958.	2.5	29
48	The fate of [ <sup>14</sup> C]glucose during cold-hardening in <i>Eurosta solidaginis</i> (Fitch). <i>Insect Biochemistry</i> , 1987, 17, 347-352.	1.8	26
49	Effects of temperature cycling on cryoprotectant profiles in the goldenrod gall fly, <i>Eurosta solidaginis</i> (Fitch). <i>Journal of Insect Physiology</i> , 1988, 34, 767-771.	2.0	26
50	Biochemical modification of plasma ice nucleating activity in a freeze-tolerant frog. <i>Cryobiology</i> , 1992, 29, 374-384.	0.7	26
51	Changing Paradigms in Biopreservation. <i>Biopreservation and Biobanking</i> , 2009, 7, 3-12.	1.0	26
52	Integrating Molecular Control to Improve Cryopreservation Outcome. <i>Biopreservation and Biobanking</i> , 2017, 15, 134-141.	1.0	26
53	Cryopreservation: Evolution of Molecular Based Strategies. <i>Advances in Experimental Medicine and Biology</i> , 2016, 951, 13-29.	1.6	25
54	Protective agents: Regulation of synthesis. <i>Cryobiology</i> , 1983, 20, 357-364.	0.7	23

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55	Role of Vitamin D3 as a Sensitizer to Cryoablation in a Murine Prostate Cancer Model: Preliminary In Vivo Study. <i>Urology</i> , 2010, 76, 764.e14-764.e20.	1.0	23
56	Characterization and modulation of human mesenchymal stem cell stress pathway response following hypothermic storage. <i>Cryobiology</i> , 2014, 68, 215-226.	0.7	22
57	Ecophysiological studies on arthropods from Spitsbergen. <i>Polar Research</i> , 1983, 1, 235-240.	1.6	21
58	Ecophysiological studies on arthropods from Spitsbergen. <i>Polar Research</i> , 1983, 1, 235-240.	1.6	21
59	Cryoablation Induces Necrosis and Apoptosis in Lung Adenocarcinoma in Mice. <i>Technology in Cancer Research and Treatment</i> , 2007, 6, 635-640.	1.9	20
60	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> , 2007, 6, 81-89.	1.9	19
61	An Evaluation of Eluent Recycling and Column Life for HPLC Analysis of Carbohydrates. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1983, 6, 1139-1151.	1.0	18
62	Further inquiry into the cryobehavior of aqueous solutions of glycerol. <i>Cryobiology</i> , 1991, 28, 268-278.	0.7	18
63	Biobanking: The Future of Cell Preservation Strategies. <i>Advances in Experimental Medicine and Biology</i> , 2015, 864, 37-53.	1.6	18
64	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> , 2018, 17, 153303381876220.	1.9	18
65	Morphology of hypoxia following cryoablation in a prostate cancer murine model: Its relationship to necrosis, apoptosis and, microvessel density. <i>Cryobiology</i> , 2010, 61, 148-154.	0.7	17
66	Characterization of Pancreatic Cancer Cell Thermal Response to Heat Ablation or Cryoablation. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 393-405.	1.9	17
67	Temperature Buffering in an Arctic Microhabitat <sup>1</sup> . <i>Annals of the Entomological Society of America</i> , 1976, 69, 117-119.	2.5	15
68	Physical aging of the glassy state: sub-T <sub>g</sub> ice nucleation in aqueous sorbitol systems. <i>Journal of Non-Crystalline Solids</i> , 1991, 130, 198-203.	3.1	15
69	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> , 1994, 40, M351-M358.	1.6	15
70	Cold-Storage of Synthetic Human Epidermis in HypoThermosol. <i>Tissue Engineering</i> , 1995, 1, 361-377.	4.6	15
71	Freezing Tolerance in the Goldenrod Gall Fly ( <i>Eurosta solidaginis</i> ). , 1991, , 260-275.		15
72	Assessment of the Impact of Post-Thaw Stress Pathway Modulation on Cell Recovery following Cryopreservation in a Hematopoietic Progenitor Cell Model. <i>Cells</i> , 2022, 11, 278.	4.1	15

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73	Temperature-induced neural adaptations motoneuron discharge in the alaskan beetle <i>Pterostichus brevicornis</i> (Carabidae). <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1972, 41, 205-213.	0.6	14
74	Assessment of Cryosurgical Device Performance Using a 3D Tissue-Engineered Cancer Model. <i>Technology in Cancer Research and Treatment</i> , 2017, 16, 900-909.	1.9	14
75	Heterothermy and cold acclimation in the arctic ground squirrel, <i>Citellus undulatus</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1980, 67, 447-452.	0.6	11
76	Differential Binding of Sugars and Polyhydric Alcohols to Ion Exchange Resins: Inappropriateness for Quantitative HPLC. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1982, 5, 767-779.	1.0	11
77	Cellular Components of the Coronary Vasculature Exhibit Differential Sensitivity to Low Temperature Insult. <i>Cell Preservation Technology</i> , 2002, 1, 269-280.	0.6	11
78	Enhanced Hypothermic Storage of Neonatal Cardiomyocytes. <i>Cell Preservation Technology</i> , 2005, 3, 61-74.	0.6	11
79	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> , 2022, 10, 450.	3.2	11
80	Insect Freezing Protection in <i>Pterostichus brevicornis</i> (Carabidae). <i>Nature: New Biology</i> , 1972, 236, 219-221.	4.5	10
81	<i>In Vitro</i> Assessment of Apoptosis and Necrosis Following Cold Storage in a Human Airway Cell Model. <i>Biopreservation and Biobanking</i> , 2009, 7, 19-27.	1.0	9
82	Assessment of a novel cryoablation device for the endovascular treatment of cardiac tachyarrhythmias. <i>SAGE Open Medicine</i> , 2018, 6, 205031211876979.	1.8	9
83	Dose Escalation of Vitamin D3 Yields Similar Cryosurgical Outcome to Single Dose Exposure in a Prostate Cancer Model. <i>Cancer Control</i> , 2018, 25, 107327481875741.	1.8	8
84	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> , 2020, 14, 117822342097236.	1.1	7
85	Ontogenetic variability of chill tolerance in larval <i>Artemia salina</i> . <i>Aquaculture</i> , 1980, 20, 305-311.	3.5	4
86	Investigation of Bladder Cancer Cell Response to Cryoablation and Adjunctive Cisplatin Based Cryo/Chemotherapy. <i>Clinical Research Open Access</i> , 2020, 6, .	0.0	4
87	Evaluation of a Novel Cystoscopic Compatible Cryocatheter for the Treatment of Bladder Cancer. <i>Bladder Cancer</i> , 2020, 6, 303-318.	0.4	4
88	Mechanisms of Cryoablation. , 2011, , 13-21.		3
89	Principles of Cryoablation. , 2016, , 9-16.		3
90	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> , 2016, 15, 609-617.	1.9	2

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91	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> , 1993, 28, 547-555.	1.2	1
92	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> , 1979, 16, 166-170.	0.7	0
93	Enhanced Cryoablative Methodologies. <i>Frontiers in Nanobiomedical Research</i> , 2016, , 3-24.	0.1	0
94	Cell Preservation Technology. , 2011, , 154-165.		0
95	The Story of Adjuvants to Boost the Performance of Cryoablation. <i>Current Clinical Urology</i> , 2017, , 385-397.	0.0	0