Shannon N Tessier

List of Publications by Year
in descending order

67	1,411	331259 21	377514 34
papers	citations	h-index	g-index

72	72	72	1698
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced Isolation and Release of Circulating Tumor Cells Using Nanoparticle Binding and Ligand Exchange in a Microfluidic Chip. Journal of the American Chemical Society, 2017, 139, 2741-2749.	6.6	226
2	Supercooling extends preservation time of human livers. Nature Biotechnology, 2019, 37, 1131-1136.	9.4	113
3	Anti-apoptotic signaling as a cytoprotective mechanism in mammalian hibernation. PeerJ, 2013, 1, e29.	0.9	69
4	Whole blood stabilization for the microfluidic isolation and molecular characterization of circulating tumor cells. Nature Communications, 2017, 8, 1733.	5.8	53
5	Expression of myocyte enhancer factor-2 and downstream genes in ground squirrel skeletal muscle during hibernation. Molecular and Cellular Biochemistry, 2010, 344, 151-162.	1.4	50
6	Metabolic suppression during protracted exposure to hypoxia in the jumbo squid,Dosidicus gigas, living in an oxygen minimum zone. Journal of Experimental Biology, 2014, 217, 2555-68.	0.8	45
7	The effects of hibernation on the contractile and biochemical properties of skeletal muscles in the thirteen-lined ground squirrel, Ictidomys tridecemlineatus. Journal of Experimental Biology, 2013, 216, 2587-94.	0.8	39
8	Characterization of adipocyte stress response pathways during hibernation in thirteen-lined ground squirrels. Molecular and Cellular Biochemistry, 2014, 393, 271-282.	1.4	38
9	Induction of Antioxidant and Heat Shock Protein Responses During Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 119-126.	3.0	36
10	Subzero non-frozen preservation of human livers in the supercooled state. Nature Protocols, 2020, 15, 2024-2040.	5.5	31
11	Myocyte enhancer factor-2 and cardiac muscle gene expression during hibernation in thirteen-lined ground squirrels. Gene, 2012, 501, 8-16.	1.0	30
12	Primate Torpor: Regulation of Stress-activated Protein Kinases During Daily Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 81-90.	3.0	30
13	Regulation of the PI3K/AKT Pathway and Fuel Utilization During Primate Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 91-102.	3.0	29
14	Bacterial Ice Nucleation in Monodisperse D₂O and H₂O-in-Oil Emulsions. Langmuir, 2016, 32, 9229-9236.	1.6	27
15	Controlled ice nucleation using freeze-dried Pseudomonas syringae encapsulated in alginate beads. Cryobiology, 2017, 75, 1-6.	0.3	27
16	Advances in machine perfusion, organ preservation, and cryobiology: potential impact on vascularized composite allotransplantation. Current Opinion in Organ Transplantation, 2018, 23, 561-567.	0.8	26
17	Regulation of pyruvate dehydrogenase (PDH) in the hibernating ground squirrel, (Ictidomys) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	25
18	Bulk Droplet Vitrification: An Approach to Improve Large-Scale Hepatocyte Cryopreservation Outcome. Langmuir, 2019, 35, 7354-7363.	1.6	25

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19	The efficacy of HBOCâ€201 in ex situ gradual rewarming kidney perfusion in a rat model. Artificial Organs, 2020, 44, 81-90.	1.0	25
20	Metabolic suppression in the pelagic crab, Pleuroncodes planipes, in oxygen minimum zones. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 88-97.	0.7	23
21	Stress-induced antioxidant defense and protein chaperone response in the freeze-tolerant wood frog Rana sylvatica. Cell Stress and Chaperones, 2018, 23, 1205-1217.	1.2	23
22	Regulation of Torpor in the Gray Mouse Lemur: Transcriptional and Translational Controls and Role of AMPK Signaling. Genomics, Proteomics and Bioinformatics, 2015, 13, 103-110.	3.0	22
23	The role of global histone post-translational modifications during mammalian hibernation. Cryobiology, 2017, 75, 28-36.	0.3	22
24	The Regulation of Troponins I, C and ANP by GATA4 and Nkx2-5 in Heart of Hibernating Thirteen-Lined Ground Squirrels, Ictidomys tridecemlineatus. PLoS ONE, 2015, 10, e0117747.	1.1	21
25	To be or not to be: the regulation of mRNA fate as a survival strategy during mammalian hibernation. Cell Stress and Chaperones, 2014, 19, 763-776.	1.2	18
26	Modulation of Gene Expression in Key Survival Pathways During Daily Torpor in the Gray Mouse Lemur, Microcebus murinus. Genomics, Proteomics and Bioinformatics, 2015, 13, 111-118.	3.0	18
27	Effect of Ice Nucleation and Cryoprotectants during High Subzero-Preservation in Endothelialized Microchannels. ACS Biomaterials Science and Engineering, 2018, 4, 3006-3015.	2.6	18
28	Partial freezing of rat livers extends preservation time by 5-fold. Nature Communications, 2022, 13, .	5.8	18
29	Lessons from mammalian hibernators: molecular insights into striated muscle plasticity and remodeling. Biomolecular Concepts, 2016, 7, 69-92.	1.0	17
30	Response of the JAK-STAT pathway to mammalian hibernation in 13-lined ground squirrel striated muscle. Molecular and Cellular Biochemistry, 2016, 414, 115-127.	1.4	17
31	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. Scientific Reports, 2020, 10, 4621.	1.6	17
32	The heart of a hibernator: EGFR and MAPK signaling in cardiac muscle during the hibernation of thirteen-lined ground squirrels,Ictidomys tridecemlineatus. PeerJ, 2019, 7, e7587.	0.9	16
33	Inhibition of skeletal muscle atrophy during torpor in ground squirrels occurs through downregulation of MyoG and inactivation of Foxo4. Cryobiology, 2016, 73, 112-119.	0.3	15
34	Strategies of biochemical adaptation for hibernation in a South American marsupial, Dromiciops gliroides: 2. Control of the Akt pathway and protein translation machinery. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 19-25.	0.7	14
35	The involvement of mRNA processing factors TIA-1, TIAR, and PABP-1 during mammalian hibernation. Cell Stress and Chaperones, 2014, 19, 813-825.	1.2	13
36	Strategies of biochemical adaptation for hibernation in a South American marsupial Dromiciops gliroides: 1. Mitogen-activated protein kinases and the cell stress response. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 12-18.	0.7	12

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37	Regulation of the insulinâ€“Akt signaling pathway and glycolysis during dehydration stress in the African clawed frogXenopus laevis. Biochemistry and Cell Biology, 2017, 95, 663-671.	0.9	11
38	Strategies of biochemical adaptation for hibernation in a South American marsupial, Dromiciops gliroides: 4. Regulation of pyruvate dehydrogenase complex and metabolic fuel selection. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 32-37.	0.7	11
39	Extending the Human Liver Preservation Time for Transplantation by Supercooling. Transplantation, 2018, 102, S396.	0.5	11
40	Cell release during perfusion reflects cold ischemic injury in rat livers. Scientific Reports, 2020, 10, 1102.	1.6	11
41	Molecular control of protein synthesis, glucose metabolism, and apoptosis in the brain of hibernating thirteen-lined ground squirrels. Biochemistry and Cell Biology, 2019, 97, 536-544.	0.9	10
42	Ex vivo perfusion-based engraftment of genetically engineered cell sensors into transplantable organs. PLoS ONE, 2019, 14, e0225222.	1.1	10
43	Ultra-fast vitrification of patient-derived circulating tumor cell lines. PLoS ONE, 2018, 13, e0192734.	1.1	9
44	MAP kinase signaling and Elk1 transcriptional activity in hibernating thirteen-lined ground squirrels. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2811-2821.	1.1	8
45	Anti-thrombotic strategies for microfluidic blood processing. Lab on A Chip, 2018, 18, 2146-2155.	3.1	8
46	Optimization of Ex Vivo Machine Perfusion and Transplantation of Vascularized Composite Allografts. Journal of Surgical Research, 2022, 270, 151-161.	0.8	8
47	Strategies of biochemical adaptation for hibernation in a South American marsupial, Dromiciops gliroides: 3. Activation of pro-survival response pathways. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2018, 224, 26-31.	0.7	7
48	Isolation of intact extracellular vesicles from cryopreserved samples. PLoS ONE, 2021, 16, e0251290.	1.1	7
49	Cytokine and Antioxidant Regulation in the Intestine of the Gray Mouse Lemur (Microcebus murinus) During Torpor. Genomics, Proteomics and Bioinformatics, 2015, 13, 127-135.	3.0	6
50	Epigenetic regulation by DNA methyltransferases during torpor in the thirteen-lined ground squirrel Ictidomys tridecemlineatus. Molecular and Cellular Biochemistry, 2021, 476, 3975-3985.	1.4	6
51	Exceeding the Limits of Static Cold Storage in Limb Transplantation Using Subnormothermic Machine Perfusion. Journal of Reconstructive Microsurgery, 2023, 39, 350-360.	1.0	6
52	Leveraging the zebrafish to model organ transplantation. Current Opinion in Organ Transplantation, 2019, 24, 613-619.	0.8	4
53	Dehydration stress alters the mitogen-activated-protein kinase signaling and chaperone stress response in Xenopus laevis. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2020, 246-247, 110461.	0.7	4
54	Modulating Nrf2 transcription factor activity: Revealing the regulatory mechanisms of antioxidant defenses during hibernation in 13â€lined ground squirrels. Cell Biochemistry and Function, 2021, 39, 623-635.	1.4	4

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55	Zebrafish as a New Tool in Heart Preservation Research. Journal of Cardiovascular Development and Disease, 2021, 8, 39.	0.8	4
56	Transitioning between entry and exit from mammalian torpor. Temperature, 2014, 1, 92-93.	1.7	2
57	Bulk Droplet Vitrification for Primary Hepatocyte Preservation. Journal of Visualized Experiments, 2019, , .	0.2	2
58	Non-invasive quantification of the mitochondrial redox state in livers during machine perfusion. PLoS ONE, 2021, 16, e0258833.	1.1	2
59	The effect of blood cells retained in rat livers during static cold storage on viability outcomes during normothermic machine perfusion. Scientific Reports, 2021, 11, 23128.	1.6	1
60	REAL-TIME VIABILITY ASSESSMENT DURING NORMOTHERMIC MACHINE PERFUSION WITH RAMAN SPECTROSCOPY. Transplantation, 2020, 104, S252-S252.	0.5	0
61	Extending preservation duration of hearts and livers with partial freezing. Cryobiology, 2020, 97, 268.	0.3	0
62	Organ repair and regeneration: Preserving organs in the regenerative medicine eraOrlandoGiuseppeKeshavjeeShaf (Eds). Elsevier, 2021, 304 pages. American Journal of Transplantation, 0, , .	2.6	0
63	New Methods to Extend Perfusion Duration of Rat Cardiac Grafts. Journal of Heart and Lung Transplantation, 2022, 41, S300.	0.3	0
64	Title is missing!. , 2019, 14, e0225222.		0
65	Title is missing!. , 2019, 14, e0225222.		0
66	Title is missing!. , 2019, 14, e0225222.		0
67	Title is missing!. , 2019, 14, e0225222.		0