

Douglas R Boreham

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

908
citations

516561

16
h-index

552653

26
g-index

61
all docs

61
docs citations

61
times ranked

1269
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of degraded <sc>DNA</sc> on restriction enzyme associated <sc>DNA</sc> sequencing (<sc>RADS</sc>eq). <i>Molecular Ecology Resources</i> , 2015, 15, 1304-1315.	2.2	114
2	Low-Dose Ionizing Radiation Exposure, Oxidative Stress and Epigenetic Programming of Health and Disease. <i>Radiation Research</i> , 2017, 188, 525-538.	0.7	62
3	Re-evaluation of the linear no-threshold (LNT) model using new paradigms and modern molecular studies. <i>Chemico-Biological Interactions</i> , 2019, 301, 54-67.	1.7	45
4	Ionizing Radiation Exposure During Pregnancy: Effects on Postnatal Development and Life. <i>Radiation Research</i> , 2017, 187, 647-658.	0.7	40
5	Biological Effects and Adaptive Response from Single and Repeated Computed Tomography Scans in Reticulocytes and Bone Marrow of C57BL/6 Mice. <i>Radiation Research</i> , 2012, 177, 164-175.	0.7	36
6	Thermal stress and the heat shock response in embryonic and young of the year juvenile lake whitefish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2016, 193, 1-10.	0.8	31
7	Development and validation of probe-based multiplex real-time PCR assays for the rapid and accurate detection of freshwater fish species. <i>PLoS ONE</i> , 2019, 14, e0210165.	1.1	29
8	Impact of Ionizing Radiation on the Cardiovascular System: A Review. <i>Radiation Research</i> , 2017, 188, 539-546.	0.7	28
9	A Self-Contained, Controlled Hatchery System for Rearing Lake Whitefish Embryos for Experimental Aquaculture. <i>North American Journal of Aquaculture</i> , 2014, 76, 179-184.	0.7	24
10	Development of the embryonic heat shock response and the impact of repeated thermal stress in early stage lake whitefish (<i>Coregonus clupeaformis</i>) embryos. <i>Journal of Thermal Biology</i> , 2017, 69, 294-301.	1.1	23
11	The REPAIR Project: Examining the Biological Impacts of Sub-Background Radiation Exposure within SNOLAB, a Deep Underground Laboratory. <i>Radiation Research</i> , 2017, 188, 470-474.	0.7	23
12	Radiation-induced apoptosis in mouse lymphocytes is modified by a complex dietary supplement: the effect of genotype and gender. <i>Mutagenesis</i> , 2008, 23, 465-472.	1.0	22
13	The effects of fluctuating temperature regimes on the embryonic development of lake whitefish (<i>Coregonus clupeaformis</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 214, 19-29.	0.8	21
14	How “simple” methodological decisions affect interpretation of population structure based on reduced representation library DNA sequencing: A case study using the lake whitefish. <i>PLoS ONE</i> , 2020, 15, e0226608.	1.1	20
15	BEIR VI radon: The rest of the story. <i>Chemico-Biological Interactions</i> , 2019, 301, 81-87.	1.7	19
16	Radiation-induced DNA damage and the relative biological effectiveness of 18F-FDG in wild-type mice. <i>Mutagenesis</i> , 2014, 29, 279-287.	1.0	18
17	Multiple CT Scans Extend Lifespan by Delaying Cancer Progression in Cancer-Prone Mice. <i>Radiation Research</i> , 2017, 188, 495-504.	0.7	18
18	Single CT Scan Prolongs Survival by Extending Cancer Latency in <i>Trp53</i> Heterozygous Mice. <i>Radiation Research</i> , 2017, 188, 505-511.	0.7	18

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19	A radiation-induced adaptive response prolongs the survival of prion-infected mice. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1417-1421.	1.3	17
20	The effects of increased constant incubation temperature and cumulative acute heat shock exposures on morphology and survival of Lake Whitefish (<i>Coregonus clupeaformis</i>) embryos. <i>Journal of Thermal Biology</i> , 2016, 57, 11-20.	1.1	17
21	Secoisolariciresinol diglucoside attenuates cardiac hypertrophy and oxidative stress in monocrotaline-induced right heart dysfunction. <i>Molecular and Cellular Biochemistry</i> , 2017, 432, 33-39.	1.4	16
22	Cataract Formation and Low-Dose Radiation Exposure from Head Computed Tomography (CT) Scans in Ontario, Canada, 1994â€“2015. <i>Radiation Research</i> , 2020, 193, 322.	0.7	16
23	Thermal acclimation alters both basal heat shock protein gene expression and the heat shock response in juvenile lake whitefish (<i>Coregonus clupeaformis</i>). <i>Journal of Thermal Biology</i> , 2022, 104, 103185.	1.1	14
24	Non-radioactive 2-deoxy-2-fluoro-D-glucose inhibits glucose uptake in xenograft tumours and sensitizes HeLa cells to doxorubicin in vitro. <i>PLoS ONE</i> , 2017, 12, e0187584.	1.1	13
25	Space Radiation Protection Countermeasures in Microgravity and Planetary Exploration. <i>Life</i> , 2021, 11, 829.	1.1	13
26	Quantifying murine bone marrow and blood radiation dose response following 18F-FDG PET with DNA damage biomarkers. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 770, 29-36.	0.4	12
27	The Role of Radiation Induced Injury on Lung Cancer. <i>Cancers</i> , 2017, 9, 89.	1.7	12
28	Hormetic Effects of Early Juvenile Radiation Exposure on Adult Reproduction and Offspring Performance in the Cricket (<i>Acheta domesticus</i>). <i>Dose-Response</i> , 2018, 16, 155932581879749.	0.7	12
29	Daily, repeating fluctuations in embryonic incubation temperature alter metabolism and growth of Lake whitefish (<i>Coregonus clupeaformis</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2018, 226, 49-56.	0.8	11
30	Biological Response of Positron Emission Tomography Scan Exposure and Adaptive Response in Humans. <i>Dose-Response</i> , 2015, 13, 155932581561190.	0.7	10
31	Consistent differential resource use by sympatric lake (<i>Coregonus clupeaformis</i>) and round (<i>Prosopium cylindraceum</i>) whitefish in Lake Huron: a multi-time scale isotopic niche analysis. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 1072-1080.	0.7	10
32	The Relative Biological Effectiveness of Low-Dose Mammography Quality X Rays in the Human Breast MCF-10A Cell Line. <i>Radiation Research</i> , 2015, 183, 42-51.	0.7	9
33	Fine-Scale Ecological and Genetic Population Structure of Two Whitefish (<i>Coregoninae</i>) Species in the Vicinity of Industrial Thermal Emissions. <i>PLoS ONE</i> , 2016, 11, e0146656.	1.1	9
34	Initial Characterization of the Growth Stimulation and Heat-Shock-Induced Adaptive Response in Developing Lake Whitefish Embryos after Ionizing Radiation Exposure. <i>Radiation Research</i> , 2017, 188, 475-485.	0.7	8
35	The Influence of TRP53 in the Dose Response of Radiation-Induced Apoptosis, DNA Repair and Genomic Stability in Murine Haematopoietic Cells. <i>Dose-Response</i> , 2014, 12, dose-response.1.	0.7	7
36	Low-dose radiation from 18F-FDG PET does not increase cancer frequency or shorten latency but reduces kidney disease in cancer-prone Trp53+/ β^{γ} mice. <i>Mutagenesis</i> , 2014, 29, 289-294.	1.0	7

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37	Neoplastic human embryonic stem cells as a model of radiation resistance of human cancer stem cells. <i>Oncotarget</i> , 2015, 6, 22258-22269.	0.8	7
38	Isotopic Structure of Lake Whitefish in Lake Huron: Evidence for Regional and Local Populations Based on Resource Use. <i>North American Journal of Fisheries Management</i> , 2017, 37, 133-148.	0.5	7
39	Nerve growth factor inhibitor with novel binding domain demonstrates nanomolar efficacy in both cell-based and cell-free assay systems. <i>Pharmacology Research and Perspectives</i> , 2017, 5, e00339.	1.1	7
40	Transcriptomic profiling of gamma ray induced mutants from the CGL1 human hybrid cell system reveals novel insights into the mechanisms of radiation-induced carcinogenesis. <i>Free Radical Biology and Medicine</i> , 2019, 145, 300-311.	1.3	7
41	Acute pulmonary and splenic response in an <i>in vivo</i> model of whole-body low-dose X-radiation exposure. <i>International Journal of Radiation Biology</i> , 2019, 95, 1072-1084.	1.0	7
42	Cardiovascular and growth outcomes of C57Bl/6J mice offspring exposed to maternal stress and ionizing radiation during pregnancy. <i>International Journal of Radiation Biology</i> , 2019, 95, 1085-1093.	1.0	7
43	The heat shock response shows plasticity in embryonic lake whitefish (<i>Coregonus clupeaformis</i>) exposed to repeated thermal stress. <i>Journal of Thermal Biology</i> , 2021, 100, 103036.	1.1	7
44	Developmental effects of the industrial cooling water additives morpholine and sodium hypochlorite on lake whitefish (<i>Coregonus clupeaformis</i>). <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1955-1965.	2.2	6
45	Lipid content and fatty acid profile during lake whitefish embryonic development at different incubation temperatures. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 203, 201-209.	0.8	6
46	The influence of changing dose rate patterns from inhaled beta-gamma emitting radionuclide on lung cancer. <i>International Journal of Radiation Biology</i> , 2018, 94, 955-966.	1.0	5
47	Lasting Effects of Low to Non-Lethal Radiation Exposure during Late Gestation on Offspring's Cardiac Metabolism and Oxidative Stress. <i>Antioxidants</i> , 2021, 10, 816.	2.2	5
48	A method to transform a variable thermal regime to a physiologically equivalent effective temperature. <i>Journal of Thermal Biology</i> , 2017, 65, 21-25.	1.1	4
49	Is There a Trade-Off between Radiation-Stimulated Growth and Metabolic Efficiency?. <i>Radiation Research</i> , 2017, 188, 486-494.	0.7	4
50	Characterization of natural bactericidal antibody against <i>Haemophilus influenzae</i> type a in Canadian First Nations: A Canadian Immunization Research Network (CIRN) Clinical Trials Network (CTN) study. <i>PLoS ONE</i> , 2018, 13, e0201282.	1.1	4
51	Dose threshold for radiation induced fetal programming in a mouse model at 4 months of age: Hepatic expression of genes and proteins involved in glucose metabolism and glucose uptake in brown adipose tissue. <i>PLoS ONE</i> , 2020, 15, e0231650.	1.1	4
52	A novel specialized tissue culture incubator designed and engineered for radiobiology experiments in a sub-natural background radiation research environment. <i>Journal of Environmental Radioactivity</i> , 2021, 228, 106512.	0.9	4
53	Evaluating tank acclimation and trial length for dynamic shuttle box temperature preference assays in aquatic animals. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	4
54	Micronuclei formation in rainbow trout cells exposed to multiple stressors: Morpholine, heat shock, and ionizing radiation. <i>Toxicology in Vitro</i> , 2018, 47, 38-47.	1.1	2

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55	Impacts of temperature, morpholine, and chronic radiation on the embryonic development of round whitefish (<i>Prosopium cylindraceum</i>). Environmental Toxicology and Chemistry, 2018, 37, 2593-2608.	2.2	2
56	A radon chamber specifically designed for environmentally relevant exposures of small animals. Journal of Environmental Radioactivity, 2020, 220-221, 106295.	0.9	1
57	Modifying effects of a cobble substrate on thermal environments and implications for embryonic development in lake whitefish (<i>Coregonus clupeaformis</i>). Journal of Fish Biology, 2020, 97, 113-120.	0.7	1
58	Unchanged cardiovascular and respiratory outcomes in healthy C57Bl/6 mice after in utero exposure to ionizing radiation. International Journal of Radiation Biology, 2021, 97, 131-138.	1.0	1
59	Identification of Radiation-Induced miRNA Biomarkers Using the CGL1 Cell Model System. Bioengineering, 2022, 9, 214.	1.6	1
60	Population structure of lake whitefish (<i>Coregonus clupeaformis</i>) from the Mississippian lineage in North America. Facets, 2022, 7, 853-874.	1.1	1