

# Richard A Britten

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,517  
citations

361045

20  
h-index

315357

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmic radiation exposure and persistent cognitive dysfunction. <i>Scientific Reports</i> , 2016, 6, 34774.	1.6	167
2	Low (20 cGy) Doses of 1 GeV/u <sup>56</sup> Fe-Particle Radiation Lead to a Persistent Reduction in the Spatial Learning Ability of Rats. <i>Radiation Research</i> , 2012, 177, 146-151.	0.7	123
3	Variations in the RBE for Cell Killing Along the Depth-Dose Profile of a Modulated Proton Therapy Beam. <i>Radiation Research</i> , 2013, 179, 21-28.	0.7	119
4	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. <i>Life Sciences in Space Research</i> , 2016, 8, 38-51.	1.2	112
5	Low (60ÂcGy) Doses of <sup>56</sup> Fe HZE-Particle Radiation Lead to a Persistent Reduction in the Glutamatergic Readily Releasable Pool in Rat Hippocampal Synaptosomes. <i>Radiation Research</i> , 2010, 174, 618-623.	0.7	98
6	New Concerns for Neurocognitive Function during Deep Space Exposures to Chronic, Low Dose-Rate, Neutron Radiation. <i>ENeuro</i> , 2019, 6, ENEURO.0094-19.2019.	0.9	80
7	Exposure to Mission Relevant Doses of 1 GeV/Nucleon <sup>56</sup> Fe Particles Leads to Impairment of Attentional Set-Shifting Performance in Socially Mature Rats. <i>Radiation Research</i> , 2014, 182, 292-298.	0.7	73
8	Executive Function in Rats is Impaired by Low (20 cGy) Doses of 1 GeV/u <sup>56</sup> Fe Particles. <i>Radiation Research</i> , 2012, 178, 289-294.	0.7	63
9	Effect of cisplatin on the clinically relevant radiosensitivity of human cervical carcinoma cell lines. <i>International Journal of Radiation Oncology Biology Physics</i> , 1996, 34, 367-374.	0.4	57
10	Biological Factors Influencing the RBE of Neutrons: Implications for Their Past, Present and Future Use in Radiotherapy. <i>Radiation Research</i> , 2001, 156, 125-135.	0.7	37
11	Impaired Spatial Memory Performance in Adult Wistar Rats Exposed to Low (5â€20 cGy) Doses of 1 GeV/n <sup>56</sup> Fe Particles. <i>Radiation Research</i> , 2016, 185, 332-337.	0.7	37
12	Exposure to 15 cGy of 600 MeV/n 56Fe Particles Impairs Rule Acquisition but not Long-Term Memory in the Attentional Set-Shifting Assay. <i>Radiation Research</i> , 2018, 190, 565.	0.7	33
13	Exposure to Mission-Relevant Doses of 1 GeV/n <sup>48</sup> Ti Particles Impairs Attentional Set-Shifting Performance in Retired Breeder Rats. <i>Radiation Research</i> , 2016, 185, 13-19.	0.7	32
14	Impaired Attentional Set-Shifting Performance after Exposure to 5 cGy of 600 MeV/n <sup>28</sup> Si Particles. <i>Radiation Research</i> , 2018, 189, 273-282.	0.7	31
15	Altered Cognitive Flexibility and Synaptic Plasticity in the Rat Prefrontal Cortex after Exposure to Low (15 cGy) Doses of 28Si Radiation. <i>Radiation Research</i> , 2020, 193, 223.	0.7	30
16	Constancy of the Relative Biological Effectiveness of 42 MeV (p <sup>+</sup> Be <sup>+</sup> ) Neutrons among Cell Lines with Different DNA Repair Proficiencies. <i>Radiation Research</i> , 1997, 148, 308.	0.7	27
17	Progressive increase in the complexity and translatability of rodent testing to assess space-radiation induced cognitive impairment. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 126, 159-174.	2.9	27
18	The relative cellular radiosensitivity of 30 human in vitro cell lines of different histological type to high LET 62.5 MeV (p <sup>+</sup> Be <sup>+</sup> ) fast neutrons and 4 MeV photons. <i>Radiotherapy and Oncology</i> , 1994, 30, 83-89.	0.3	26

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19	Individual variations in dose response for spatial memory learning among outbred wistar rats exposed from 5 to 20 cGy of $^{56}\text{Fe}$ particles. <i>Environmental and Molecular Mutagenesis</i> , 2016, 57, 331-340.	0.9	23
20	Mechanisms of Cyclophosphamide Resistance in a Human Myeloid Leukemia Cell Line. <i>Acta Oncologica</i> , 1995, 34, 247-251.	0.8	22
21	Paclitaxel is preferentially cytotoxic to human cervical tumor cells with low Raf-1 kinase activity: implications for paclitaxel-based chemoradiation regimens. <i>Radiotherapy and Oncology</i> , 1998, 48, 329-334.	0.3	21
22	Performance in hippocampus- and PFC-dependent cognitive domains are not concomitantly impaired in rats exposed to 20 cGy of 1 GeV/n $^{56}\text{Fe}$ particles. <i>Life Sciences in Space Research</i> , 2016, 10, 17-22.	1.2	21
23	Changes in the Hippocampal Proteome Associated with Spatial Memory Impairment after Exposure to Low (20 cGy) Doses of 1 GeV/n $^{56}\text{Fe}$ Radiation. <i>Radiation Research</i> , 2017, 187, 287.	0.7	20
24	Sleep fragmentation exacerbates executive function impairments induced by protracted low dose rate neutron exposure. <i>International Journal of Radiation Biology</i> , 2021, 97, 1077-1087.	1.0	19
25	Collateral resistance to photon and neutron irradiation is associated with acquired cis-platinum resistance in human ovarian tumour cells. <i>Radiotherapy and Oncology</i> , 1992, 23, 170-175.	0.3	18
26	Spatial Memory Performance of Socially Mature Wistar Rats is Impaired after Exposure to Low (5 cGy) Doses of 1 GeV/n $^{48}\text{Ti}$ Particles. <i>Radiation Research</i> , 2017, 187, 60-65.	0.7	18
27	THE IDENTIFICATION OF SERLIM BIOMARKERS OF HIGH-LET RADIATION EXPOSURE AND BIOLOGICAL SEQUELAE. <i>Health Physics</i> , 2010, 98, 196-203.	0.3	16
28	Skilled movement and posture deficits in rat string-pulling behavior following low dose space radiation ( $^{28}\text{Si}$ ) exposure. <i>Behavioural Brain Research</i> , 2021, 400, 113010.	1.2	15
29	Quantitative Proteomic Analysis of the Hippocampus of Rats with GCR-Induced Spatial Memory Impairment. <i>Radiation Research</i> , 2017, 189, 136.	0.7	14
30	Exposure to Low ( $\sim 10$ cGy) Doses of $^4\text{He}$ Particles Leads to Increased Social Withdrawal and Loss of Executive Function Performance. <i>Radiation Research</i> , 2021, 196, 345-354.	0.7	14
31	The differential induction of collateral resistance to 62.5 MeV ( $^{10}\text{B}^+$ ) neutrons and 4 MeV photons by exposure to cis-platinum. <i>International Journal of Radiation Oncology Biology Physics</i> , 1993, 26, 837-843.	0.4	13
32	Chronic Low Dose Neutron Exposure Results in Altered Neurotransmission Properties of the Hippocampus-Prefrontal Cortex Axis in Both Mice and Rats. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3668.	1.8	13
33	Sleep Fragmentation Exacerbates Executive Function Impairments Induced by Low Doses of Si Ions. <i>Radiation Research</i> , 2020, 194, 116.	0.7	13
34	The individual and combined effects of spaceflight radiation and microgravity on biologic systems and functional outcomes. <i>Journal of Environmental Science and Health, Part C: Toxicology and Carcinogenesis</i> , 2021, 39, 129-179.	0.4	12
35	Identification of reproducible low mass SELDI protein profiles specific to cisplatin resistance in human ovarian cancer cells. <i>Oncology Reports</i> , 2005, 14, 1323-30.	1.2	12
36	Rapid loss of fine motor skills after low dose space radiation exposure. <i>Behavioural Brain Research</i> , 2022, 430, 113907.	1.2	10

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37	In Vitro Studies of Intrinsic Cellular Radiosensitivity Following 4 MeV Photons or 62.5 MeV ( $\alpha$ Be+) Neutrons: Potential implications for high LET therapy. <i>Acta Oncologica</i> , 1994, 33, 241-249.	0.8	9
38	Dissecting Differential Complex Behavioral Responses to Simulated Space Radiation Exposures. <i>Radiation Research</i> , 2021, 197, .	0.7	9
39	Differential modulation of radiosensitivity following induction of cis-platinum resistance in radiation-sensitive and radiation-resistant human tumor cells. <i>Radiation Oncology Investigations</i> , 1994, 2, 25-31.	1.3	8
40	Differential impact of Raf-1 kinase activity on tumor cell resistance to paclitaxel and docetaxel. <i>Anti-Cancer Drugs</i> , 2000, 11, 439-443.	0.7	8
41	Machine Learning Models to Predict Cognitive Impairment of Rodents Subjected to Space Radiation. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 713131.	1.2	6
42	Space Radiation-Induced Alterations in the Hippocampal Ubiquitin-Proteome System. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7713.	1.8	4
43	Exposure to 5 cGy $^{28}\text{Si}$ Particles Induces Long-Term Microglial Activation in the Striatum and Subventricular Zone and Concomitant Neurogenic Suppression. <i>Radiation Research</i> , 2022, , .	0.7	3
44	Predicting Space Radiation Single Ion Exposure in Rodents: A Machine Learning Approach. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 715433.	1.2	2
45	Modification of Radiosensitivity Following Chemotherapy Exposure: Potential Implications for Combined-Modality Therapy. <i>Cancer Treatment and Research</i> , 2002, 112, 285-303.	0.2	1
46	Response to the Commentary from Bevelacqua et al.. <i>ENeuro</i> , 2020, 7, ENEURO.0439-19.2019.	0.9	1