

Long-term neurocognitive benefits of FLASH radiotherapy on oxygen species

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A computational model of radiolytic oxygen depletion during FLASH irradiation and its effect on the oxygen enhancement ratio. <i>Physics in Medicine and Biology</i> , 2019, 64, 185005.	3.0	117
2	Feasibility of proton FLASH effect tested by zebrafish embryo irradiation. <i>Radiotherapy and Oncology</i> , 2019, 139, 46-50.	0.6	144
3	Polo-like kinase 1 inhibitor BI6727 sensitizes 9L gliosarcoma cells to ionizing irradiation. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 067003.	1.2	1
4	Heat transfer characteristics in channel with square rib at different Mach numbers. <i>Journal of Physics: Conference Series</i> , 2019, 1303, 012050.	0.4	0
5	BIGART 2019 “adapting to the future. <i>Acta Oncologica</i> , 2019, 58, 1323-1327.	1.8	1
7	Response to letter regarding “An integrated physico-chemical approach for explaining the differential impact of FLASH versus conventional dose rate irradiation on cancer and normal tissue responses”. <i>Radiotherapy and Oncology</i> , 2019, 139, 64-65.	0.6	12
8	FLASH radiotherapy International Workshop. <i>Radiotherapy and Oncology</i> , 2019, 139, 1-3.	0.6	34
9	Dosimetric and preparation procedures for irradiating biological models with pulsed electron beam at ultra-high dose-rate. <i>Radiotherapy and Oncology</i> , 2019, 139, 34-39.	0.6	92
10	The Importance and Clinical Implications of FLASH Ultra-High Dose-Rate Studies for Proton and Heavy Ion Radiotherapy. <i>Radiation Research</i> , 2019, 193, 1.	1.5	43
11	Ultra high dose rate (35%Gy/sec) radiation does not spare the normal tissue in cardiac and splenic models of lymphopenia and gastrointestinal syndrome. <i>Scientific Reports</i> , 2019, 9, 17180.	3.3	66
12	FLASH radiotherapy: ultra-high dose rates to spare healthy tissue. <i>International Journal of Radiation Biology</i> , 2020, 96, 419-423.	1.8	42
13	The FLASH effect depends on oxygen concentration. <i>British Journal of Radiology</i> , 2020, 93, 20190702.	2.2	133
14	FLASH Irradiation Spares Lung Progenitor Cells and Limits the Incidence of Radio-induced Senescence. <i>Clinical Cancer Research</i> , 2020, 26, 1497-1506.	7.0	148
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16	Proton beam therapy: perspectives on the National Health Service England clinical service and research programme. <i>British Journal of Radiology</i> , 2020, 93, 20190873.	2.2	25
17	Heavy charged particle beam therapy and related new radiotherapy technologies: The clinical potential, physics and technical developments required to deliver benefit for patients with cancer. <i>British Journal of Radiology</i> , 2020, 93, 20200247.	2.2	16
18	Oxygen depletion in FLASH ultra-high dose-rate radiotherapy: A molecular dynamics simulation. <i>Medical Physics</i> , 2020, 47, 6551-6561.	3.0	38
19	Proposal of a Chemical Mechanism for Mini-Beam and Micro-Beam Efficacy. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	5

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20	The European Joint Research Project UHDPulse “ Metrology for advanced radiotherapy using particle beams with ultra-high pulse dose rates. <i>Physica Medica</i> , 2020, 80, 134-150.	0.7	71
21	Can a comparison of clinical and deep space irradiation scenarios shed light on the radiation response of the brain?. <i>British Journal of Radiology</i> , 2020, 93, 20200245.	2.2	6
22	Stereotactic Radiosurgery and Stereotactic Body Radiotherapy in the Management of Oligometastatic Disease. <i>Clinical Oncology</i> , 2020, 32, 713-727.	1.4	30
23	History and current perspectives on the biological effects of high-dose spatial fractionation and high dose-rate approaches: GRID, Microbeam & FLASH radiotherapy. <i>British Journal of Radiology</i> , 2020, 93, 20200217.	2.2	24
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25	In Regard to van Marlen etÂal. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 1012-1013.	0.8	6
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28	Transforming an IORT Linac Into a FLASH Research Machine: Procedure and Dosimetric Characterization. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	25
29	Extracellular Vesicleâ€Derived miR-124 Resolves Radiation-Induced Brain Injury. <i>Cancer Research</i> , 2020, 80, 4266-4277.	0.9	27
30	Whole brain proton irradiation in adult Sprague Dawley rats produces dose dependent and non-dependent cognitive, behavioral, and dopaminergic effects. <i>Scientific Reports</i> , 2020, 10, 21584.	3.3	5
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66	FLASH Proton Pencil Beam Scanning Irradiation Minimizes Radiation-Induced Leg Contracture and Skin Toxicity in Mice. <i>Cancers</i> , 2021, 13, 1012.	3.7	109
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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157	FLASH ultra-high dose rates in radiotherapy: preclinical and radiobiological evidence. <i>International Journal of Radiation Biology</i> , 2022, 98, 127-135.	1.8	14
158	FLASH radiotherapy: Research process from basic experimentation to clinical application. <i>Precision Radiation Oncology</i> , 2021, 5, 259-266.	1.1	5
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