

# Long-term neurocognitive benefits of FLASH radiotherapy 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.	1.6	117
2	Feasibility of proton FLASH effect tested by zebrafish embryo irradiation. <i>Radiotherapy and Oncology</i> , 2019, 139, 46-50.	0.3	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.	0.6	1
4	Heat transfer characteristics in channel with square rib at different Mach numbers. <i>Journal of Physics: Conference Series</i> , 2019, 1303, 012050.	0.3	0
5	BIGART 2019 "adapting to the future". <i>Acta Oncologica</i> , 2019, 58, 1323-1327.	0.8	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.	0.3	12
8	FLASH radiotherapy International Workshop. <i>Radiotherapy and Oncology</i> , 2019, 139, 1-3.	0.3	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.	0.3	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.	0.7	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.	1.6	66
12	FLASH radiotherapy: ultra-high dose rates to spare healthy tissue. <i>International Journal of Radiation Biology</i> , 2020, 96, 419-423.	1.0	42
13	The FLASH effect depends on oxygen concentration. <i>British Journal of Radiology</i> , 2020, 93, 20190702.	1.0	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.	3.2	148
15	Bringing FLASH to the Clinic: Treatment Planning Considerations for Ultrahigh Dose-Rate Proton Beams. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 106, 621-629.	0.4	87
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.	1.0	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.	1.0	16
18	Oxygen depletion in FLASH ultra-high-dose-rate radiotherapy: A molecular dynamics simulation. <i>Medical Physics</i> , 2020, 47, 6551-6561.	1.6	38
19	Proposal of a Chemical Mechanism for Mini-Beam and Micro-Beam Efficacy. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	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.	0.4	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.	1.0	6
22	Stereotactic Radiosurgery and Stereotactic Body Radiotherapy in the Management of Oligometastatic Disease. <i>Clinical Oncology</i> , 2020, 32, 713-727.	0.6	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.	1.0	24
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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, .	1.0	25
29	Extracellular Vesicle-Derived miR-124 Resolves Radiation-Induced Brain Injury. <i>Cancer Research</i> , 2020, 80, 4266-4277.	0.4	27
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39	A Quantitative Analysis of the Role of Oxygen Tension in FLASH Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 539-547.	0.4	84
40	An ionizing radiation acoustic imaging (iRAI) technique for real-time dosimetric measurements for FLASH radiotherapy. <i>Medical Physics</i> , 2020, 47, 5090-5101.	1.6	19
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73	FLASH Radiotherapy: History and Future. <i>Frontiers in Oncology</i> , 2021, 11, 644400.	1.3	63
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86	FLASH Proton Radiotherapy Spares Normal Epithelial and Mesenchymal Tissues While Preserving Sarcoma Response. <i>Cancer Research</i> , 2021, 81, 4808-4821.	0.4	77
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118	The current status of preclinical proton FLASH radiation and future directions. <i>Medical Physics</i> , 2022, 49, 2039-2054.	1.6	40
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141	Technical note: Validation of an ultrahigh dose rate pulsed electron beam monitoring system using a current transformer for FLASH preclinical studies. <i>Medical Physics</i> , 2022, 49, 1831-1838.	1.6	19
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144	On the Transient Radiolytic Oxygen Depletion in the Ultra-High (FLASH) Dose-Rate Radiolysis of Water in a Cell-Like Environment: Effect of e <sup>-</sup> <sub>aq</sub> and •OH Competing Scavengers. <i>Radiation Research</i> , 2022, 197, .	0.7	6
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150	FLASH irradiation induces lower levels of DNA damage ex vivo, an effect modulated by oxygen tension, dose, and dose rate. <i>British Journal of Radiology</i> , 2022, 95, 20211150.	1.0	19
151	A Comprehensive Analysis of the Relationship Between Dose Rate and Biological Effects in Preclinical and Clinical Studies, From Brachytherapy to Flattening Filter Free Radiation Therapy and FLASH Irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 113, 985-995.	0.4	5
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