

Marie-Catherine Vozenin

List of Publications by Year in descending order

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116
papers

8,495
citations

53660

45
h-index

48187

88
g-index

128
all docs

128
docs citations

128
times ranked

6280
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high dose-rate FLASH irradiation increases the differential response between normal and tumor tissue in mice. <i>Science Translational Medicine</i> , 2014, 6, 245ra93.	5.8	768
2	Pathogenetic mechanisms in radiation fibrosis. <i>Radiotherapy and Oncology</i> , 2010, 97, 149-161.	0.3	498
3	The Advantage of FLASH Radiotherapy Confirmed in Mini-pig and Cat-cancer Patients. <i>Clinical Cancer Research</i> , 2019, 25, 35-42.	3.2	430
4	Irradiation in a flash: Unique sparing of memory in mice after whole brain irradiation with dose rates above 100 Gy/s. <i>Radiotherapy and Oncology</i> , 2017, 124, 365-369.	0.3	410
5	Treatment of a first patient with FLASH-radiotherapy. <i>Radiotherapy and Oncology</i> , 2019, 139, 18-22.	0.3	406
6	Long-term neurocognitive benefits of FLASH radiotherapy driven by reduced reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10943-10951.	3.3	326
7	Biological Benefits of Ultra-high Dose Rate FLASH Radiotherapy: Sleeping Beauty Awoken. <i>Clinical Oncology</i> , 2019, 31, 407-415.	0.6	324
8	Clinical translation of FLASH radiotherapy: Why and how?. <i>Radiotherapy and Oncology</i> , 2019, 139, 11-17.	0.3	294
9	X-rays can trigger the FLASH effect: Ultra-high dose-rate synchrotron light source prevents normal brain injury after whole brain irradiation in mice. <i>Radiotherapy and Oncology</i> , 2018, 129, 582-588.	0.3	250
10	Hypofractionated FLASH-RT as an Effective Treatment against Glioblastoma that Reduces Neurocognitive Side Effects in Mice. <i>Clinical Cancer Research</i> , 2021, 27, 775-784.	3.2	144
11	High dose-rate pulse electron beam dosimetry: Commissioning of the Oriatron eRT6 prototype linear accelerator for preclinical use. <i>Medical Physics</i> , 2018, 45, 863-874.	1.6	143
12	High dose-rate pulse electron beam dosimetry: A model to correct for the ion recombination in the Advanced Markus ionization chamber. <i>Medical Physics</i> , 2017, 44, 1157-1167.	1.6	141
13	Durable and controlled depletion of neutrophils in mice. <i>Nature Communications</i> , 2020, 11, 2762.	5.8	138
14	Striking regression of subcutaneous fibrosis induced by high doses of gamma rays using a combination of pentoxifylline and Î±-tocopherol: an experimental study. <i>International Journal of Radiation Oncology Biology Physics</i> , 1999, 43, 839-847.	0.4	137
15	NF-Î²B constitutes a potential therapeutic target in high-risk myelodysplastic syndrome. <i>Blood</i> , 2005, 107, 1156-1165.	0.6	127
16	Pravastatin Inhibits the Rho/CCN2/Extracellular Matrix Cascade in Human Fibrosis Explants and Improves Radiation-Induced Intestinal Fibrosis in Rats. <i>Clinical Cancer Research</i> , 2007, 13, 5331-5340.	3.2	126
17	Coactivation of AP-1 activity and TGF-Î²1 gene expression in the stress response of normal skin cells to ionizing radiation. <i>Oncogene</i> , 1997, 15, 981-989.	2.6	115
18	High dose-rate pulse electron beam dosimetry: Usability and dose-rate independence of EBT3 Gafchromic films. <i>Medical Physics</i> , 2017, 44, 725-735.	1.6	115

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19	CSF1R inhibition prevents radiation pulmonary fibrosis by depletion of interstitial macrophages. <i>European Respiratory Journal</i> , 2018, 51, 1702120.	3.1	114
20	Pravastatin Limits Endothelial Activation after Irradiation and Decreases the Resulting Inflammatory and Thrombotic Responses. <i>Radiation Research</i> , 2005, 163, 479-487.	0.7	108
21	Inhibition of Rho kinase modulates radiation induced fibrogenic phenotype in intestinal smooth muscle cells through alteration of the cytoskeleton and connective tissue growth factor expression. <i>Gut</i> , 2005, 54, 336-343.	6.1	98
22	Antifibrotic action of Cu/Zn SOD is mediated by TGF- β 1 repression and phenotypic reversion of myofibroblasts. <i>Free Radical Biology and Medicine</i> , 2001, 30, 30-42.	1.3	94
23	Down-regulation of BRCA1 in BCR-ABL α -expressing hematopoietic cells. <i>Blood</i> , 2003, 101, 4583-4588.	0.6	94
24	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
25	Fibrogenic signals in patients with radiation enteritis are associated with increased connective tissue growth factor expression. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 56, 561-572.	0.4	90
26	Comparative gene expression profiling in three primary human cell lines after treatment with a novel inhibitor of Rho kinase or atorvastatin. <i>Blood Coagulation and Fibrinolysis</i> , 2008, 19, 709-718.	0.5	87
27	Abdominal irradiation increases inflammatory cytokine expression and activates NF- κ B in rat ileal muscularis layer. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 285, G556-G565.	1.6	83
28	Synergy of Radiotherapy and a Cancer Vaccine for the Treatment of HPV-Associated Head and Neck Cancer. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1336-1345.	1.9	77
29	Neuroprotection of Radiosensitive Juvenile Mice by Ultra-High Dose Rate FLASH Irradiation. <i>Cancers</i> , 2020, 12, 1671.	1.7	74
30	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
31	Induction of CTGF by TGF- β 1 in normal and radiation enteritis human smooth muscle cells: Smad/Rho balance and therapeutic perspectives. <i>Radiotherapy and Oncology</i> , 2005, 76, 219-225.	0.3	70
32	Antifibrotic, Antioxidant, and Immunomodulatory Effects of Mesenchymal Stem Cells in HOCl α -Induced Systemic Sclerosis. <i>Arthritis and Rheumatology</i> , 2016, 68, 1013-1025.	2.9	70
33	Understanding High-Dose, Ultra-High Dose Rate, and Spatially Fractionated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 766-778.	0.4	70
34	Successful Mitigation of Delayed Intestinal Radiation Injury Using Pravastatin is not Associated with Acute Injury Improvement or Tumor Protection. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1471-1482.	0.4	67
35	Ultra-high-dose-rate FLASH and Conventional-Dose-Rate Irradiation Differentially Affect Human Acute Lymphoblastic Leukemia and Normal Hematopoiesis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 819-829.	0.4	66
36	Ultra-high dose rate electron beams and the FLASH effect: From preclinical evidence to a new radiotherapy paradigm. <i>Medical Physics</i> , 2022, 49, 2082-2095.	1.6	66

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37	Gene Expression Profile in Human Late Radiation Enteritis Obtained by High-Density cDNA Array Hybridization. <i>Radiation Research</i> , 2004, 161, 299-311.	0.7	65
38	GLUT1 Expression in Tumor-Associated Neutrophils Promotes Lung Cancer Growth and Resistance to Radiotherapy. <i>Cancer Research</i> , 2021, 81, 2345-2357.	0.4	65
39	Global gene expression profiles reveal an increase in mRNA levels of collagens, MMPs, and TIMPs in late radiation enteritis. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 287, G875-G885.	1.6	64
40	Modulation of the Rho/ROCK Pathway in Heart and Lung after Thorax Irradiation Reveals Targets to Improve Normal Tissue Toxicity. <i>Current Drug Targets</i> , 2010, 11, 1395-1404.	1.0	61
41	Comparison between Stromal Vascular Fraction and Adipose Mesenchymal Stem Cells in Remodeling Hypertrophic Scars. <i>PLoS ONE</i> , 2016, 11, e0156161.	1.1	55
42	Commissioning of an ultra-high dose rate pulsed electron beam medical LINAC for FLASH RT preclinical animal experiments and future clinical human protocols. <i>Medical Physics</i> , 2021, 48, 3134-3142.	1.6	51
43	Altered proliferation and differentiation of human epidermis in cases of skin fibrosis after radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002, 53, 385-393.	0.4	48
44	The radiosensitizing activity of the SMAC-mimetic, Debio 1143, is TNF α -mediated in head and neck squamous cell carcinoma. <i>Radiotherapy and Oncology</i> , 2015, 116, 495-503.	0.3	48
45	All Irradiations that are Ultra-High Dose Rate may not be FLASH: The Critical Importance of Beam Parameter Characterization and In Vivo Validation of the FLASH Effect. <i>Radiation Research</i> , 2020, 194, 571-572.	0.7	48
46	Rho/ROCK pathway as a molecular target for modulation of intestinal radiation-induced toxicity. <i>British Journal of Radiology</i> , 2007, 80, S32-S40.	1.0	46
47	Molecular Aspects of Intestinal Radiation-Induced Fibrosis. <i>Current Molecular Medicine</i> , 2009, 9, 273-280.	0.6	46
48	Enhanced Sensitivity to Low Dose Irradiation of ApoE $^{-/-}$ Mice Mediated by Early Pro-Inflammatory Profile and Delayed Activation of the TGF β 1 Cascade Involved in Fibrogenesis. <i>PLoS ONE</i> , 2013, 8, e57052.	1.1	45
49	Expression and activation of MMP -2, -3, -9, -14 are induced in rat colon after abdominal X-irradiation. <i>Scandinavian Journal of Gastroenterology</i> , 2006, 41, 60-70.	0.6	43
50	Specific signals involved in the long-term maintenance of radiation-induced fibrogenic differentiation: a role for CCN2 and low concentration of TGF β 1. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 294, C1332-C1341.	2.1	43
51	Ultra-High-Dose-Rate FLASH Irradiation Limits Reactive Gliosis in the Brain. <i>Radiation Research</i> , 2020, 194, 636-645.	0.7	43
52	Novel Anti-Metastatic Action of Cidofovir Mediated by Inhibition of E6/E7, CXCR4 and Rho/ROCK Signaling in HPV+ Tumor Cells. <i>PLoS ONE</i> , 2009, 4, e5018.	1.1	42
53	Dose- and Volume-Limiting Late Toxicity of FLASH Radiotherapy in Cats with Squamous Cell Carcinoma of the Nasal Planum and in Mini Pigs. <i>Clinical Cancer Research</i> , 2022, 28, 3814-3823.	3.2	42
54	Pharmacological strategies to spare normal tissues from radiation damage: useless or overlooked therapeutics?. <i>Cancer and Metastasis Reviews</i> , 2012, 31, 699-712.	2.7	41

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55	Expanding the therapeutic index of radiation therapy by normal tissue protection. <i>British Journal of Radiology</i> , 2019, 92, 20180008.	1.0	41
56	Recommended ESTRO Core Curriculum for Radiation Oncology/Radiotherapy 4th edition. <i>Radiotherapy and Oncology</i> , 2019, 141, 1-4.	0.3	41
57	Bioluminescent Orthotopic Mouse Models of Human Localized Non-Small Cell Lung Cancer: Feasibility and Identification of Circulating Tumour Cells. <i>PLoS ONE</i> , 2011, 6, e26073.	1.1	41
58	Radiation-induced enteropathy: Molecular basis of pentoxifyllineâ€™vitamin E anti-fibrotic effect involved TGF- β 1 cascade inhibition. <i>Radiotherapy and Oncology</i> , 2012, 105, 305-312.	0.3	40
59	Understanding the FLASH effect to unravel the potential of ultra-high dose rate irradiation. <i>International Journal of Radiation Biology</i> , 2022, 98, 506-516.	1.0	40
60	Glucagon-Like Peptide-2 Improves Both Acute and Late Experimental Radiation Enteritis in the Rat. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, 1563-1571.	0.4	38
61	Normal tissues toxicities triggered by combined anti-angiogenic and radiation therapies: hurdles might be ahead. <i>British Journal of Cancer</i> , 2012, 107, 308-314.	2.9	38
62	How could breast cancer molecular features contribute to locoregional treatment decision making?. <i>Critical Reviews in Oncology/Hematology</i> , 2017, 110, 43-48.	2.0	37
63	FLASH radiotherapy International Workshop. <i>Radiotherapy and Oncology</i> , 2019, 139, 1-3.	0.3	34
64	Maintenance of Tight Junction Integrity in the Absence of Vascular Dilatation in the Brain of Mice Exposed to Ultra-High-Dose-Rate FLASH Irradiation. <i>Radiation Research</i> , 2020, 194, 625-635.	0.7	34
65	Maintenance of radiation-induced intestinal fibrosis: Cellular and molecular features. <i>World Journal of Gastroenterology</i> , 2007, 13, 2675.	1.4	31
66	Lung Cancer Stem Cell: New Insights on Experimental Models and Preclinical Data. <i>Journal of Oncology</i> , 2011, 2011, 1-10.	0.6	30
67	Cellular Composition and Contribution of Tertiary Lymphoid Structures to Tumor Immune Infiltration and Modulation by Radiation Therapy. <i>Frontiers in Oncology</i> , 2018, 8, 256.	1.3	30
68	Implementation and validation of a beamâ€™current transformer on a medical pulsed electron beam LINAC for FLASHâ€™RT beam monitoring. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 165-171.	0.8	28
69	Fibrosis Development in HOCl-Induced Systemic Sclerosis: A Multistage Process Hampered by Mesenchymal Stem Cells. <i>Frontiers in Immunology</i> , 2018, 9, 2571.	2.2	27
70	Epac contributes to cardiac hypertrophy and amyloidosis induced by radiotherapy but not fibrosis. <i>Radiotherapy and Oncology</i> , 2014, 111, 63-71.	0.3	26
71	Pravastatin Reverses Established Radiation-Induced Cutaneous and Subcutaneous Fibrosis in Patients With Head and Neck Cancer: Results of the Biology-Driven Phase 2 Clinical Trial Pravacur. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 104, 365-373.	0.4	26
72	Stereotactic Radiotherapy for the Management of Refractory Ventricular Tachycardia: Promise and Future Directions. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 108.	1.1	23

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73	Histopathological and Cellular Studies of a Case of Cutaneous Radiation Syndrome after Accidental Chronic Exposure to a Cesium Source. <i>Radiation Research</i> , 1999, 152, 332.	0.7	22
74	Unravelling the biology of human papillomavirus (HPV) related tumours to enhance their radiosensitivity. <i>Cancer Treatment Reviews</i> , 2010, 36, 629-636.	3.4	21
75	Fc-Receptor-Mediated Intracellular Delivery of Cu/Zn-superoxide Dismutase (SOD1) Protects Against Redox-Induced Apoptosis Through a Nitric Oxide Dependent Mechanism. <i>Molecular Medicine</i> , 2000, 6, 1042-1053.	1.9	20
76	Differential Effect Triggered by a Heparan Mimetic of the RGTa Family Preventing Oral Mucositis Without Tumor Protection. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 74, 1242-1250.	0.4	20
77	MiR-210: A potential therapeutic target against radiation-induced enteropathy. <i>Radiotherapy and Oncology</i> , 2014, 111, 219-221.	0.3	20
78	Promoter Sequences Involved in Transforming Growth Factor β 1 Gene Induction in HaCaT Keratinocytes after Gamma Irradiation. <i>Radiation Research</i> , 2002, 157, 249-255.	0.7	19
79	Collapse of Skin Antioxidant Status during the Subacute Period of Cutaneous Radiation Syndrome: A Case Report. <i>Radiation Research</i> , 2007, 167, 43-50.	0.7	19
80	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
81	Emerging Opportunities of Radiotherapy Combined With Immunotherapy in the Era of Breast Cancer Heterogeneity. <i>Frontiers in Oncology</i> , 2018, 8, 609.	1.3	17
82	Expression of matrix metalloproteinases and tissue inhibitor metalloproteinases increases in X-irradiated rat ileum despite the disappearance of CD8a T cells. <i>World Journal of Gastroenterology</i> , 2005, 11, 6312.	1.4	17
83	The myofibroblast markers α -SM actin and β -actin are differentially expressed in 2 and 3-D culture models of fibrotic and normal skin. <i>Cytotechnology</i> , 1998, 26, 29-38.	0.7	16
84	Therapeutic management of intestinal fibrosis induced by radiation therapy: from molecular profiling to new intervention strategies et vice et versa. <i>Fibrogenesis and Tissue Repair</i> , 2012, 5, S13.	3.4	16
85	Cytotoxic effect of lapatinib is restricted to human papillomavirus-positive head and neck squamous cell carcinoma cell lines. <i>OncoTargets and Therapy</i> , 2015, 8, 335.	1.0	16
86	Optimization of Alanine Measurements for Fast and Accurate Dosimetry in FLASH Radiation Therapy. <i>Radiation Research</i> , 2020, 194, 573-579.	0.7	16
87	Tissue toxicity induced by ionizing radiation to the normal intestine: Understanding the pathophysiological mechanisms to improve the medical management. <i>World Journal of Gastroenterology</i> , 2007, 13, 3031.	1.4	16
88	Simultaneous Irradiation of Fibroblasts and Carcinoma Cells Repress the Secretion of Soluble Factors Able to Stimulate Carcinoma Cell Migration. <i>PLoS ONE</i> , 2015, 10, e0115447.	1.1	15
89	Anti-Ly6G binding and trafficking mediate positive neutrophil selection to unleash the anti-tumor efficacy of radiation therapy. <i>Oncimmunology</i> , 2021, 10, 1876597.	2.1	14
90	Characteristics of very high-energy electron beams for the irradiation of deep-seated targets. <i>Medical Physics</i> , 2021, 48, 3958-3967.	1.6	14

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91	â€˜Inâ€˜fieldâ€™ and â€˜outâ€™ofâ€™fieldâ€™ functional impairment during subacute and chronic phases of experimental radiation enteropathy in the rat. <i>International Journal of Radiation Biology</i> , 2003, 79, 437-450.	1.0	13
92	Cardiac Radionuclide Imaging in Rodents: A Review of Methods, Results, and Factors at Play. <i>Frontiers in Medicine</i> , 2017, 4, 35.	1.2	13
93	Experimental Drainage Device to Reduce Lymphoedema in a Rat Model. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 57, 859-867.	0.8	13
94	The combination of the antiviral agent cidofovir and anti-EGFR antibody cetuximab exerts an antiproliferative effect on HPV-positive cervical cancer cell linesâ€™ in-vitro and in-vivo xenografts. <i>Anti-Cancer Drugs</i> , 2013, 24, 599-608.	0.7	12
95	TAT-RasGAP317â€™326 Enhances Radiosensitivity of Human Carcinoma Cell Lines In Vitro and In Vivo through Promotion of Delayed Mitotic Cell Death. <i>Radiation Research</i> , 2017, 187, 562.	0.7	11
96	TRIM33 deficiency in monocytes and macrophages impairs resolution of colonic inflammation. <i>EBioMedicine</i> , 2019, 44, 60-70.	2.7	10
97	Cidofovir Administered with Radiation Displays an Antiangiogenic Effect Mediated by E6 Inhibition and Subsequent TP53-Dependent VEGF Repression in HPV18+ Cell Lines. <i>Radiation Research</i> , 2006, 166, 600-610.	0.7	9
98	Differential expression of the Hs Kin17 protein during differentiation of in vitro reconstructed human skin. <i>Archives of Dermatological Research</i> , 1997, 289, 448-456.	1.1	8
99	PrPc deficiency and dasatinib protect mouse intestines against radiation injury by inhibiting of c-Src. <i>Radiotherapy and Oncology</i> , 2016, 120, 175-183.	0.3	7
100	Extracellular Vesicles for the Treatment of Radiation-Induced Normal Tissue Toxicity in the Lung. <i>Frontiers in Oncology</i> , 2020, 10, 602763.	1.3	7
101	Maintenance of Tight Junction Integrity in the Absence of Vascular Dilation in the Brain of Mice Exposed to Ultra-High-Dose-Rate FLASH Irradiation. <i>Radiation Research</i> , 2020, 194, 625-635.	0.7	7
102	A new mouse model of radiation-induced liver disease reveals mitochondrial dysfunction as an underlying fibrotic stimulus. <i>JHEP Reports</i> , 2022, 4, 100508.	2.6	7
103	In Regard to van Marlen etâ€™al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 1012-1013.	0.4	6
104	Sex-Specific Differences in Toxicity Following Systemic Paclitaxel Treatment and Localized Cardiac Radiotherapy. <i>Cancers</i> , 2021, 13, 3973.	1.7	6
105	A need for biology-driven personalized radiotherapy in breast cancer. <i>Breast Cancer Research and Treatment</i> , 2018, 167, 603-604.	1.1	4
106	Isodose 20â€™Gy found as a threshold dose for radiation recall dermatitis. <i>Clinical and Translational Radiation Oncology</i> , 2019, 17, 14-16.	0.9	3
107	What Have We Learned From Human Papillomavirusâ€™Positive Tumors? Trying to Connect Data About Biomarkers Among Human Papillomavirusâ€™Related Squamous Cell Carcinomas. <i>Journal of Clinical Oncology</i> , 2010, 28, e340-e341.	0.8	2
108	Circulating Tumor Cells and Radiotherapy Benefit in Early Breast Cancer. <i>JAMA Oncology</i> , 2019, 5, 111.	3.4	2

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109	Break-even dose level for hypofractionated treatment schedules. Medical Physics, 2021, 48, 7534-7540.	1.6	2
110	Novel Strategies to Prevent, Mitigate or Reverse Radiation Injury and Fibrosis. , 2016, , 75-108.		1
111	The Era of Modern Radiation Therapy: Innovations to Spare Normal Tissues. , 2019, , 1-15.		1
112	Enhanced Local Control by Radiation Boost in Breast Cancer: Back Side of the Coin?. Journal of Clinical Oncology, 2007, 25, 5841-5843.	0.8	0
113	Radiosensitivity of Human Papillomavirus-Related Tumors: In Regard to Gupta et al. (Int J Radiat Oncol) Tj ETQq 1, 1 0.784314 rgBT 0.4	0.4	0
114	Mécanismes de la toxicité cardiaque induite par les rayonnements ionisants. Archives Des Maladies Du Coeur Et Des Vaisseaux - Pratique, 2016, 2016, 22-28.	0.0	0
115	Potential of FLASH irradiation to minimize the incidence of radio-induced damage and fibrosis to normal lung in a mouse model. Journal of Thoracic Oncology, 2016, 11, S5.	0.5	0
116	Letter in Response to Doyen et al., "Early Toxicities After High Dose Rate Proton Therapy in Cancer Treatments". Frontiers in Oncology, 2021, 11, 687593.	1.3	0