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（発信者：オックスフォード大学出版局）

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[](http://jrr.oxfordjournals.org/content/56/suppl_1.toc#content-block)

学会誌Journal of Radiation Researchの最新号が出版されました。完全オープンアクセスジャーナルですので、全ての論文を無料でお読みいただけます。以下に目次を掲載致しますので、ぜひご一読ください。

<https://academic.oup.com/jrr/issue/59/2>

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BIOLOGY

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Radiobiological response of U251MG, CHO-K1 and V79 cell lines to accelerator-based boron neutron capture therapy

Eisuke Sato; Alexander Zaboronok; Tetsuya Yamamoto; Kei Nakai; Sergey Taskaev ...

<https://doi.org/10.1093/jrr/rrx071>

Circular dichroism spectroscopic study on structural alterations of histones induced by post-translational modifications in DNA damage responses: lysine-9 methylation of H3

Yudai Izumi; Koichi Matsuo; Kentaro Fujii; Akinari Yokoya; Masaki Taniguchi ...

<https://doi.org/10.1093/jrr/rrx068>

Investigation of the non-thermal effects of exposing cells to 70–300 GHz irradiation using a widely tunable source

Noriko Yaekashiwa; Sato Otsuki; Shin’ichiro Hayashi; Kodo Kawase

<https://doi.org/10.1093/jrr/rrx075>

Impact of oxygen status on 10B-BPA uptake into human glioblastoma cells, referring to significance in boron neutron capture therapy

Yuki Wada; Katsumi Hirose; Takaomi Harada; Mariko Sato; Tsubasa Watanabe ...

<https://doi.org/10.1093/jrr/rrx080>

Induction of autophagy and interleukin 6 secretion in bystander cells: metabolic cooperation for radiation-induced rescue effect?

Eva Yi Kong; Shuk Han Cheng; Kwan Ngok Yu

<https://doi.org/10.1093/jrr/rrx101>

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EPIDEMIOLOGY

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Estimation of the occupational exposure dose for medical diagnostic X-ray workers in Jiangsu, China, using a retrospective dosimetry method

Xiao-San Xu; Lian-An Zhang; Quan-Fu Sun; Yong-Chun Qin; Ning-Le Yu

<https://doi.org/10.1093/jrr/rrx073>

Meta-analysis of thirty-two case–control and two ecological radon studies of lung cancer

Ludwik Dobrzyński; Krzysztof W Fornalski; Joanna Reszczyńska

<https://doi.org/10.1093/jrr/rrx061>

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ONCOLOGY

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Dosimetric and clinical effects of interfraction and intrafraction correlation errors during marker-based real-time tumor tracking for liver SBRT

Keita Kurosu; Iori Sumida; Osamu Suzuki; Hiroya Shiomi; Seiichi Ota ...

<https://doi.org/10.1093/jrr/rrx067>

Quantification of the kV X-ray imaging dose during real-time tumor tracking and from three- and four-dimensional cone-beam computed tomography in lung cancer patients using a Monte Carlo simulation

Mitsuhiro Nakamura; Yoshitomo Ishihara; Yukinori Matsuo; Yusuke Iizuka; Nami Ueki ...

<https://doi.org/10.1093/jrr/rrx098>

Effect of long fasting on myocardial accumulation in 18F-fluorodeoxyglucose positron emission tomography after chemoradiotherapy for esophageal carcinoma

Yuichi Ishida; Katsuyuki Sakanaka; Satoshi Itasaka; Yuji Nakamoto; Kaori Togashi ...

<https://doi.org/10.1093/jrr/rrx076>

Determination of the appropriate physical density of internal metallic ports in temporary tissue expanders for the treatment planning of post-mastectomy radiation therapy

Norifumi Mizuno; Haruna Takahashi; Jiro Kawamori; Naoki Nakamura; Mami Ogita ...

<https://doi.org/10.1093/jrr/rrx085>

Impact of a commercially available model-based dose calculation algorithm on treatment planning of high-dose-rate brachytherapy in patients with cervical cancer

Kota Abe; Noriyuki Kadoya; Shinya Sato; Shimpei Hashimoto; Yujiro Nakajima ...

<https://doi.org/10.1093/jrr/rrx081>

Multidimensional correlation among plan complexity, quality and deliverability parameters for volumetric-modulated arc therapy using canonical correlation analysis

Lanxiao Shen; Shan Chen; Xiaoyang Zhu; Ce Han; Xiaomin Zheng ...

<https://doi.org/10.1093/jrr/rrx100>

Optimum size of a calibration phantom for x-ray CT to convert the Hounsfield units to stopping power ratios in charged particle therapy treatment planning

T Inaniwa; H Tashima; N Kanematsu

<https://doi.org/10.1093/jrr/rrx059>

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REVIEW

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Effectiveness of additional lead shielding to protect staff from scattering radiation during endoscopic retrograde cholangiopancreatography procedures

Yoshiaki Morishima; Koichi Chida; Takayoshi Meguro

<https://doi.org/10.1093/jrr/rrx039>

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PHYSICS

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Fast skin dose estimation system for interventional radiology

Takeshi Takata; Jun’ichi Kotoku; Hideyuki Maejima; Shinobu Kumagai; Norikazu Arai ...

<https://doi.org/10.1093/jrr/rrx062>

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LETTER TO THE EDITOR

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Factors affecting public health nurses’ satisfaction with the preparedness and response of disaster relief operations at nuclear emergencies

Takumi Yamaguchi; Makiko Orita; Hideko Urata; Tetsuko Shinkawa; Yasuyuki Taira ...

<https://doi.org/10.1093/jrr/rrx082>

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2017 Terasima Award

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<https://doi.org/10.1093/jrr/rrx086>

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Corrigendum

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<https://doi.org/10.1093/jrr/rrx064>

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