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（発信者：オックスフォード大学出版局）

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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/57/6>

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 Review

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Neutron relative biological effectiveness in Hiroshima and Nagasaki atomic bomb survivors: a critical review

Masao S. Sasaki, Satoru Endo, Masaharu Hoshi, and Taisei Nomura

J Radiat Res 2016 57: 583-595

<https://academic.oup.com/jrr/article/57/6/583/2605905/Neutron-relative-biological-effectiveness-in>

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 Biology

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Dependence and independence of survival parameters on linear energy transfer in cells and tissues

Koichi Ando and Dudley T. Goodhead

J Radiat Res 2016 57: 596-606

<https://academic.oup.com/jrr/article/57/6/596/2605891/Dependence-and-independence-of-survival-parameters>

Chronic exposure of adult, postnatal and in *utero* rat models to low-dose 137Cesium: impact on circulating biomarkers

Line Manens, Stéphane Grison, Jean-Marc Bertho, Philippe Lestaevel, Yann Guéguen, Marc Benderitter, Jocelyne Aigueperse, and Maâmar Souidi

J Radiat Res 2016 57: 607-619

<https://academic.oup.com/jrr/article/57/6/607/2605895/Chronic-exposure-of-adult-postnatal-and-in-utero>

Effects of combined radiofrequency field exposure on amyloid-beta–induced cytotoxicity in HT22 mouse hippocampal neurones

Jong-Sun Lee, Jeong-Yub Kim, Hee-Jin Kim, Jeong Cheol Kim, Jae-Seon Lee, Nam Kim, and Myung-Jin Park

J Radiat Res 2016 57: 620-626

<https://academic.oup.com/jrr/article/57/6/620/2605885/Effects-of-combined-radiofrequency-field-exposure>

The effects of a 50-Hz magnetic field on the cardiovascular system in rats

Ling Zhou, Baoquan Wan, Xingfa Liu, Yemao Zhang, Jinsheng Lai, Guoran Ruan, Mengying He, Chen Chen, and Dao Wen Wang

J Radiat Res 2016 57: 627-636

<https://academic.oup.com/jrr/article/57/6/627/2605913/The-effects-of-a-50-Hz-magnetic-field-on-the>

Dosimetric impact of an air passage on intraluminal brachytherapy for bronchus cancer

Hiroyuki Okamoto, Akihisa Wakita, Satoshi Nakamura, Shie Nishioka, Ako Aikawa, Toru Kato, Yoshihisa Abe, Kazuma Kobayashi, Koji Inaba, Naoya Murakami, and Jun Itami

J Radiat Res 2016 57: 637-645

<https://academic.oup.com/jrr/article/57/6/637/2605899/Dosimetric-impact-of-an-air-passage-on>

Characterization of histone modifications associated with DNA damage repair genes upon exposure to gamma rays in *Arabidopsis* seedlings

Suvendu Mondal, Young Sam Go, Seung Sik Lee, Byung Yeoup Chung, and Jin-Hong Kim

J Radiat Res 2016 57: 646-654

<https://academic.oup.com/jrr/article/57/6/646/2605903/Characterization-of-histone-modifications>

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 Oncology

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Metabolic tumor volume on FDG-PET/CT is a possible prognostic factor for Stage I lung cancer patients treated with stereotactic body radiation therapy: a retrospective clinical study

Noriyoshi Takahashi, Takaya Yamamoto, Haruo Matsushita, Toshiyuki Sugawara, Masaki Kubozono, Rei Umezawa, Yojiro Ishikawa, Maiko Kozumi, Yu Katagiri, Syun Tasaka, Kazuya Takeda, Ken Takeda, Suguru Dobashi, and Keiichi Jingu

J Radiat Res 2016 57: 655-661

<https://academic.oup.com/jrr/article/57/6/655/2605887/Metabolic-tumor-volume-on-FDG-PET-CT-is-a-possible>

Accuracy evaluation of a 3D-printed individual template for needle guidance in head and neck brachytherapy

Ming-Wei Huang, Jian-Guo Zhang, Lei Zheng, Shu-Ming Liu, and Guang-Yan Yu

J Radiat Res 2016 57: 662-667

<https://academic.oup.com/jrr/article/57/6/662/2605883/Accuracy-evaluation-of-a-3D-printed-individual>

Dose–volume analysis of predictors for chronic gastrointestinal complications in patients with cervical cancer treated with postoperative concurrent chemotherapy and whole-pelvic radiation therapy

Fumiaki Isohashi, Seiji Mabuchi, Yuichi Akino, Yasuo Yoshioka, Yuji Seo, Osamu Suzuki, Keisuke Tamari, Kiyoshi Yoshino, Kenjiro Sawada, Yutaka Ueda, Eiji Kobayashi, Iori Sumida, Hirokazu Mizuno, Hirofumi Okubo, Tadashi Kimura, and Kazuhiko Ogawa

J Radiat Res 2016 57: 668-676

<https://academic.oup.com/jrr/article/57/6/668/2605884/Dose-volume-analysis-of-predictors-for-chronic>

Investigation of whether in-room CT-based adaptive intracavitary brachytherapy for uterine cervical cancer is robust against interfractional location variations of organs and/or applicators

Yoshifumi Oku, Hidetaka Arimura, Tran Thi Thao Nguyen, Yoshiyuki Hiraki, Masahiko Toyota, Yasumasa Saigo, Takashi Yoshiura, and Hideki Hirata

J Radiat Res 2016 57: 677-683

<https://academic.oup.com/jrr/article/57/6/677/2605886/Investigation-of-whether-in-room-CT-based-adaptive>

Carbon-ion radiotherapy for locally advanced cervical cancer with bladder invasion

Shintaro Shiba, Masaru Wakatsuki, Shingo Kato, Tatsuya Ohno, Noriyuki Okonogi, Kumiko Karasawa, Hiroki Kiyohara, Hirohiko Tsujii, Takashi Nakano, Tadashi Kamada, Makio Shozu, and The Working Group of the Gynecological Tumor

J Radiat Res 2016 57: 684-690

<https://academic.oup.com/jrr/article/57/6/684/2605897/Carbon-ion-radiotherapy-for-locally-advanced>

Evaluation of the radiobiological gamma index with motion interplay in tangential IMRT breast treatment

Iori Sumida, Hajime Yamaguchi, Indra J. Das, Hisao Kizaki, Keiko Aboshi, Mari Tsujii, Yuji Yamada, Kiesuke Tamari, Osamu Suzuki, Yuji Seo, Fumiaki Isohashi, Yasuo Yoshioka, and Kazuhiko Ogawa

J Radiat Res 2016 57: 691-701

<https://academic.oup.com/jrr/article/57/6/691/2605900/Evaluation-of-the-radiobiological-gamma-index-with>

Follow-up and evaluation of the pregnancy outcome in women of reproductive age with Graves’ disease after 131Iodine treatment

Li-Hua Zhang, Jing-Yan Li, Qi Tian, Shuang Liu, Hong Zhang, Sheng Liu, Jiu-Gen Liang, Xian-Ping Lu, and Ning-Yi Jiang

J Radiat Res 2016 57: 702-708

<https://academic.oup.com/jrr/article/57/6/702/2605888/Follow-up-and-evaluation-of-the-pregnancy-outcome>

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 Short Communications

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A study on a dental device for the prevention of mucosal dose enhancement caused by backscatter radiation from dental alloy during external beam radiotherapy

Kouji Katsura, Satoru Utsunomiya, Eisuke Abe, Hironori Sakai, Naotaka Kushima, Satoshi Tanabe, Takumi Yamada, Takahide Hayakawa, Yoshihiko Yamanoi, Syuhei Kimura, Shinichi Wada, Hidefumi Aoyama, and Takafumi Hayashi

J Radiat Res 2016 57: 709-713

<https://academic.oup.com/jrr/article/57/6/709/2605915/A-study-on-a-dental-device-for-the-prevention-of>

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