

# Journal of Radiation Research (JRR)

## Highly Cited Review Article Award (2021-2025)

(from the category of "Fundamental Radiation Science")



### **DNA damage response in vascular endothelial senescence: Implication for radiation-induced cardiovascular diseases**

**Masaki Nagane\***, Hironobu Yasui, Periannan Kuppusamy, Tadashi Yamashita, Osamu Inanami  
*Journal of Radiation Research*, Volume 62, Issue 4, July 2021, Pages 564–573,  
<https://doi.org/10.1093/jrr/rrab032>

### **Neutron contamination in radiotherapy processes: a review study**

**Nooshin Banaee\***, Kiarash Goodarzi, Hassan Ali Nedaie  
*Journal of Radiation Research*, Volume 62, Issue 6, November 2021, Pages 947–954,  
<https://doi.org/10.1093/jrr/rrab076>

### **Health effects triggered by tritium: how do we get public understanding based on scientifically supported evidence?**

Hideki Matsumoto, Yoshiya Shimada, Asako J Nakamura, Noriko Usami, Mitsuaki Ojima, Shizuko Kakinuma, Mikio Shimada, Masaaki Sunaoshi, Ryoichi Hirayama, **Hiroshi Tauchi\***  
*Journal of Radiation Research*, Volume 62, Issue 4, July 2021, Pages 557–563,  
<https://doi.org/10.1093/jrr/rrab029>

### **Experiences of crisis communication during radiation emergency and risk communication for recovery of the community in Fukushima**

**Noboru Takamura\***, Makiko Orita, Yasuyuki Taira, Hitomi Matsunaga, Shunichi Yamashita  
*Journal of Radiation Research*, Volume 62, Issue Supplement\_1, April 2021, Pages i95–i100,  
<https://doi.org/10.1093/jrr/rraa113>

### **Molecular pathogenesis of pediatric thyroid carcinoma**

**Norisato Mitsutake\***, Vladimir Saenko  
*Journal of Radiation Research*, Volume 62, Issue Supplement\_1, April 2021, Pages i71–i77,  
<https://doi.org/10.1093/jrr/rraa096>

### **Successful emergency evacuation from a hospital within a 5-km radius of Fukushima Daiichi Nuclear Power Plant: the importance of cooperation with an external body**

**Toyoaki Sawano\***, Shuichi Shigetomi, Akihiko Ozaki, Yoshitaka Nishikawa, Arinobu Hori, Tomoyoshi Oikawa, Masaharu Maeda, Masaharu Tsubokura  
*Journal of Radiation Research*, Volume 62, Issue Supplement\_1, April 2021, Pages i122–i128,  
<https://doi.org/10.1093/jrr/rraa122>

## **Proposal of recommended experimental protocols for *in vitro* and *in vivo* evaluation methods of boron agents for neutron capture therapy**

Yoshihide Hattori, Tooru Andoh, Shinji Kawabata, Naonori Hu, Hiroyuki Michiue, Hiroyuki Nakamura, Takahiro Nomoto, Minoru Suzuki, Takushi Takata, Hiroki Tanaka, Tsubasa Watanabe, **Koji Ono\***

*Journal of Radiation Research*, Volume 64, Issue 6, November 2023, Pages 859–869, <https://doi.org/10.1093/jrr/rrad064>

## **Implications of the germline variants of DNA damage response genes detected by cancer precision medicine for radiological risk communication and cancer therapy decisions**

**Noriko Hosoya\***, Kiyoshi Miyagawa

*Journal of Radiation Research*, Volume 62, Issue Supplement\_1, April 2021, Pages i44–i52, <https://doi.org/10.1093/jrr/rrab009>

## **The role of mitochondrial oxidative stress and the tumor microenvironment in radiation-related cancer**

**Tsutomu Shimura\***

*Journal of Radiation Research*, Volume 62, Issue Supplement\_1, April 2021, Pages i36–i43, <https://doi.org/10.1093/jrr/rraa090>

## **Molecular and cellular basis of the dose-rate-dependent adverse effects of radiation exposure in animal models. Part II: Hematopoietic system, lung and liver**

**Keiji Suzuki\***, Tatsuhiko Imaoka, Masanori Tomita, Megumi Sasatani, Kazutaka Doi, Satoshi Tanaka, Michiaki Kai, Yutaka Yamada, Shizuko Kakinuma

*Journal of Radiation Research*, Volume 64, Issue 2, March 2023, Pages 228–249, <https://doi.org/10.1093/jrr/rrad003>

Author Notes: K. Suzuki, T. Imaoka, M. Tomita and M. Sasatani contributed equally.

## **Scientific research and product development in the United States to address injuries from a radiation public health emergency**

**Andrea L DiCarlo\***

*Journal of Radiation Research*, Volume 62, Issue 5, September 2021, Pages 752–763, <https://doi.org/10.1093/jrr/rrab064>

## **Case review of severe acute radiation syndrome from whole body exposure: concepts of radiation-induced multi-organ dysfunction and failure**

**Koichi Tanigawa\***

*Journal of Radiation Research*, Volume 62, Issue Supplement\_1, April 2021, Pages i15–i20, <https://doi.org/10.1093/jrr/rraa121>