

1) Published and in-press reports (2018 - Current):**<2020 - Current>**

Applegate KE, Ruhm W, Wojcik A, et al. (RERF: Brenner AV, Hamasaki K, Imaizumi M, Ozasa K, Sadakane A, Sakata R, Yoshida K) Individual response of humans to ionizing radiation: Governing factors and importance for radiological protection *Radiat Environ Biophys* 2020; 59(2):185-209.

Ueda K, Ohishi W, Cullings HM, Fujiwara S, Suzuki G, Hayashi T, Mitsui F, Hida A, Ozasa K, Ito M, Chayama K, Tahara E. Modifying effect of chronic atrophic gastritis on radiation risk for noncardia gastric cancer according to histological type. *Radiat Res* 2020;194(2):180-7

Aziz F, Hisatsune J, Yu L, Kajimura J, Sato'o Y, Ono HK, Masuda K, Yamaoka M, Salasia SIO, Nakane A, Ohge H, Kusunoki Y, Sugai M. *Staphylococcus aureus* isolated from skin from atopic-dermatitis patients produces staphylococcal enterotoxin Y, which predominantly induces T-cell receptor V α -specific expansion of T cells. *Infect Immun* 2020; 88(2):e00360-19.

Nakamura N. A hypothesis: Radiation carcinogenesis may result from tissue injuries and subsequent recovery processes which can act as tumor promoters and lead to an earlier onset of cancer. *Br J Radiol*, 2020; 93(1115):20190843.

Satoh Y, Asakawa J, Nishimura M, Kuo T, Shinkai N, Cullings HM, Minakuchi Y, Sese J, Toyoda A, Shimada Y, Nakamura N, Uchimura A. Characteristics of induced mutations in offspring derived from irradiated mouse spermatogonia and mature oocytes. *Scientific Reports* 2020; 10(1):37.

Takahashi N, Misumi M, Niwa Y, Murakami H, Ohishi W, Inaba T, Nagamachi A, Tanaka S, Tanaka I, Suzuki G. Effects of radiation on blood pressure and body weight in the spontaneously hypertensive rat model. Are radiation effects on blood pressure affected by genetic background? *Radiat Res* 2020; 193(6):552-9.

Takahashi N, Misumi M, Murakami H, Niwa Y, Ohishi W, Inaba T, Nagamachi A, Suzuki G. Association between low doses of ionizing radiation, administered acutely or chronically, and time to onset of stroke in a rat model. *J Radiat Res* 2020; 61(5):666-73.

Nakamura N. Questions on the oncogenic mutation theory of radiation carcinogenesis. *Hiroshima Igaku [J Hiroshima Med Assoc]* 2020; 73(4):211-4. (in Japanese)

Satoh Y, Uchimura A. Analysis of transgenerational genetic effects of radiation exposure using laboratory mice. *Hiroshima Igaku [J Hiroshima Med Assoc]*, 2020; 73(4):228-31. (in Japanese)

<In Press>

Yoshida K, Misumi M, Kusunoki Y, Yamada M. Longitudinal changes in red blood cell distribution width decades after radiation exposure in atomic-bomb survivors. *Br J Haematol*

Satoh Y, Uchimura A. Analysis of transgenerational effects of radiation exposure using whole genome sequencing. *Isotope News* (Japan Radioisotope Association) (in Japanese)

Uchimura A. Radiation and genetics – Exposure and Health. *Encyclopedia of Genetics*. (in Japanese)

<Submitted>

Nakamura N. A new model of radiation carcinogenesis: induction of tissue inflammation facilitates an earlier onset of cancer and hence an increased risk.

Yeager M, Machiela MJ, Kothiyal P, Dean M, Bodelon C, Suman S, Wang M, Mirabello L, Nelson CW, Zhou W, Palmer C, Ballew B, Colli L, Freedman ND, Dagnall C, Hutchinson A, Vij V, Maruvka Y, Hatch M, Illienko I, Belayev Y, Nakamura N, Chumak V, Bakhanova E, Belyi D, Kryuchkov V, Golovanov I, Gudzenko N, Cahoon EK, Drozdovitch V, Little MP, Mabuchi K, Stewart C, Getz G, et al, and Chanock SJ (Total 37 authors), Lack of transgenerational effects of ionizing radiation exposure in cleanup workers and evacuees of the Chernobyl accident.

Nakamura N. Bridging radiation epidemiology and radiation biology. (in Japanese)

Takahashi N, The association between radiation exposure and circulatory diseases. In: Establishment of Disease Model Animals and their Application -Circulatory Diseases- Revised Edition, L. I. C. Co. Ltd, Tokyo, Japan. (in Japanese)

<2019 >

Jang S, Suto Y, Liu J, Liu Q, Zuo Y, Duy PN, Miura T, Abe Y, Hamasaki K, Suzuki K, Kodama S. Capabilities of the ARADOS-WG03 regional network for large scale radiological and nuclear emergency situations in Asia. *Radiat Prot Dosimetry* 2019;186(1):139-42.

Hamasaki K, Nakamura N. Effect of radiation exposures on fetal hematopoietic cells. *Current Stem Cell Reports*, 2019; 5(2):92-9.

Hirai Y, Cordova KA, Kodama Y, Hamasaki K, Awa AA, Tomonaga M, Mine M, Cullings HM, Nakamura N. Tooth enamel ESR doses and cytogenetic doses of Nagasaki atomic-bomb survivors in comparison with DS02R1 doses. *Int J Radiat Biol*, 2019; 95(3):321-8.

Joo J, Omae Y, Hitomi Y, Park B, Shin HJ, Yoon KA, Sawai H, Tsuiji M, Hayashi T, KongS, Tokunaga K, Kim J. The association of integration patterns of human papilloma virus and single nucleotide polymorphisms on immune- or DNA repair-related genes in cervical cancer patients. *Sci Rep*, 2019; 9(1):13132.

Nakamura N. History of radiation genetics: light and darkness. *Int J Radiat Biol*, 2019; 95(7):999-1014.

Yoshida K, French B, Yoshida N, Hida A, Ohishi W, Kusunoki Y. Radiation exposure and longitudinal changes in peripheral monocytes over 50 years: The Adult Health Study of atomic-bomb survivors. *Br J Haematol*, 2019; 185:107-15.

Noda A. Mutation. In chapter 2.14, *Encyclopedia of Radiation Medical Science*, 2019; 131-35. Asakura Publishing. (in Japanese)

<2018>

Hayashi T, Lynch HE, Geyer SM, Yoshida K, Furudoi K, Sasaki K, Morishita Y, Nagamura H, Maki M, Hu Y, Hayashi I, Kyoizumi S, Kusunoki Y, Ohishi W, Fujiwara S, Misumi M, Shterev I, Nikolich-Zugich J, Murasko D, Hale LP, Sempowski GD, Nakachi K. Impact of early life exposure to ionizing radiation on influenza vaccine response in an elderly Japanese cohort. *Vaccine*, 2018; 36(45):6650-9.

Hirai Y, Noda A, Kodama Y, Cordova KA, Cullings HM, Yonehara S, Fujihara M, Moriwaki S, Nishigori C, Mabuchi K, Kraemer KH, Nakamura N. Increased risk of skin cancer in Japanese heterozygotes of xeroderma pigmentosum group A. *J Human Genetics*, 2018; 63(11):1181-4.

Kajimura J, Lynch HE, Geyer SM, French B, Yamaoka M, Shterev ID, Sempowski GD, Kyoizumi S, Yoshida K, Misumi M, Ohishi W, Hayashi T, Nakachi K, Kusunoki Y. Radiation and age-associated changes in peripheral blood dendritic cell populations among aging atomic bomb survivors in Japan. *Radiat Res*, 2018; 189(1):84-94.

Noda A. Radiation-induced unrepairable DSBs: Their role in the late effects of radiation and possible applications to biodosimetry. *J Radiat Res*, 2018; 59 (Suppl 2): ii114–ii120.

Hamasaki K. Evaluation of radiation effects in in utero exposed populations using chromosome aberration assay. *Hiroshima Igaku [J Hiroshima Med Assoc]*, 2018; 71(4):257-60. (in Japanese)

Hayashi T, Lynch HE, Geyer SM, French B, Yoshida K, Furudoi K, Sasaki K, Morishita Y, Nagamura H, Maki M, Hu Y, Hayashi I, Kyoizumi S, Kusunoki Y, Ohishi W, Fujiwara S, Shterev I, Nikolich-Zugich J, Murasko D, Sempowski GD, Nakachi K. Influenza vaccine response among Hiroshima atomic-bomb survivors. *Hiroshima Igaku [J Hiroshima Med Assoc]*, 2018; 71(4):278-81. (in Japanese)

Yoshida K. Aging-related changes in the immune system – the potential link to radiation exposure, obesity, and metabolic pathways. *Hiroshima Igaku [J Hiroshima Med Assoc]*, 2018; 71(4):261-4. (in Japanese)

2) Meeting presentations (January 2020 – December 2020):

Hayashi T. Thinking about virus infection based on the influenza vaccine research. The 23rd West Japan English Study Meeting. 31 May 2020, Hiroshima (online)

Nakamura N. How to interpret radiation carcinogenesis data in the mouse: an increased incidence can also occur by an earlier onset. The 45th Annual Meeting of the Chugoku Area Radiation Research Society. 7 August 2020, Hiroshima (online)

Yoshida K., Misumi M, Kusunoki Y., Yamada M. Radiation exposure and hematopoietic cell homeostasis: Longitudinal changes in red blood cell distribution width (RDW) among atomic-bomb survivors. The 45th Annual Meeting of the Chugoku Area Radiation Research Society. 7 August 2020, Hiroshima (online)

Uchimura A., Satoh Y., Higuchi M, Minakuchi Y, Toyoda A, Yagi T. Characteristics of de novo germline mutations and their phenotypic effects on descendants. The 92nd Annual Meeting of the Genetics Society of Japan. 16-19 September 2020, Kumamoto

Noda A. Genetic effects and cancer among children of atomic bomb survivors. The 79th Annual Meeting of the Japanese Cancer Association. 1-3 October 2020, Hiroshima

Hamasaki K., Kodama Y. Biological dosimetric study of A-bomb survivors. The 63rd Annual Meeting of the Japanese Radiation Research Society. 15-17 October 2020, Fukushima (online)

Satoh Y., Nishimura M, Minakuchi Y, Toyoda A, Shimada Y, Uchimura A. Characterization of mutations induced by paternal and maternal radiation exposure. The 63rd Annual Meeting of the Japanese Radiation Research Society. 15-17 October 2020, Fukushima (online)

Taga M., Yoshida K., Kyoizumi S., Kato N, Cologne J, Sasatani M, Suzuki K, Ogawa T, Kusunoki Y. Gene expression analysis of inflammatory cytokines in hepatic stellate cells isolated from X-irradiated mice. The 63rd Annual Meeting of the Japanese Radiation Research Society. 15-17 October 2020, Fukushima (online)

Yoshida K., Taga M., Misumi M, Satoh Y., Uchimura A., Noda A., Kusunoki Y. A preliminary study of clonal hematopoiesis and related blood cell profiles in mice following radiation exposure. The 63rd Annual Meeting of the Japanese Radiation Research Society. 15-17 October 2020, Fukushima (online)

Hayashi T. Immunological and cancer genome studies in atomic bomb survivors. The 65th Annual Meeting of the Japan Society of Human Genetics. 18-21 November 2020, Nagoya (online)