

1) Published and in-press reports (2019 - Current):**<2019 - Current>**

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.

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* 10(2):37, 2020/01/08. DOI:10.1038/s41598-019-56881-2.

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)

<In press>

Aziz F, Hisatsune J, Yu L, Kajimura J, Sato'o Y, Ono HK, Matsuda K, Yamaoka M, Salasia SIO, Nakane A, Ohge H, Kusunoki Y, Sugai M. Staphylococcus aureus isolated from atopic dermatitis skin produces staphylococcal enterotoxin Y that predominantly induces TCR V α -specific expansion of T cell. *Infection and Immunity*

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*.

Nakamura N. A Hypothesis: the carcinogenic effect of radiation may result from an earlier onset of disease, possibly through stromal activation. *Br. J. Radiol*.

Nakamura N. Question on the oncogenic mutation theory of radiation carcinogenesis. *Hiroshima Igaku [J Hiroshima Med Association]* (in Japanese)

Satoh Y, Uchimura A. Analysis of transgenerational genetic effects of radiation exposure

using laboratory mice. *Hiroshima Igaku [J Hiroshima Med Association]* (in Japanese)

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

<Submitted for Publication>

Applegate KE, Ruehm W, Wojcik A, (including RERF authors: Sakata R, Sadakane A, Imaizumi M, Yoshida K, Hamasaki K, Brenner AV, Ozasa K), Bouffler S. Individual Response of Humans to Ionising Radiation - Governing Factors and Importance for Radiological Protection.

2) Meeting presentations (January 2019 – December 2019):

Nakamura N. Questions on mutation theory of radiogenic cancer. The 60th Late A-bomb Effects Research Meeting. 2 June 2019, Hiroshima.

Satoh Y, Uchimura A. Analysis of transgenerational genetic effects of radiation exposure using laboratory mice. The 60th Late A-bomb Effects Research Meeting. 2 June 2019, Hiroshima.

Yoshida K, French B, Yoshida N, Hida A, Ohishi W, Taga M, Kusunoki Y. Increases in peripheral blood monocytes related to human aging and radiation exposure. The 26th International Symposium on Molecular Cell Biology of Macrophages. 6-7 June 2019, Tokyo.

Hayashi T, Furukawa K, Hayashi I, Yoshida K, Kyoizumi S, Ohishi W. Effects of aging and radiation exposure on the production of reactive oxygen species in blood cells of atomic-bomb survivors. The 44th Annual Meeting of the Chugoku Area Radiation Research Society. 2 August 2019, Hiroshima.

Nakamura N. A mystery of in vitro transformation revisited. The 44th Annual Meeting of the Chugoku Area Radiation Research Society. 2 August 2019, Hiroshima.

Hamasaki K, Noda A, Kodama Y, Cologne J, Nakamura N. mFISH analysis of the single colony derived from X-irradiated fetal hematopoietic stem cell (HSC). The 16th International Congress of Radiation Research. 25-29 August 2019, Manchester UK.

Hayashi T, Furukawa K, Hayashi I, Yoshida K, Kyoizumi S, Ohishi W. Effects of inflammatory marker on the relationship between intracellular ROS in blood and radiation exposure among atomic bomb survivors. The 16th International Congress of Radiation Research. 25-29 August 2019, Manchester UK.

Nakamura N. Cancer risks from radiation: oncogenic mutation theories may not apply when human epidemiology is compared to animal biology. The 16th International Congress of Radiation Research 2019. 25-29 August 2019, Manchester, UK.

Satoh Y, Asakawa J, Nishimura M, Cullings HM, Shimada Y, Nakamura N, Uchimura A. Induced mutations in offspring derived from irradiated mouse spermatogonia and mature

oocytes. The 16th International Congress of Radiation Research 2019. 25-29 August 2019, Manchester, UK.

Uchimura A, Satoh Y, Higuchi M, Minakuchi Y, Nishino J, Toyoda A, Yagi T. De novo germline mutations and the phenotypic effects of mutation accumulation in laboratory mice. The 16th International Congress of Radiation Research 2019. 25-29 August 2019, Manchester, UK.

Noda A. Radiation associated cancers in atomic bomb survivors in Hiroshima and Nagasaki. The 34th Pathology of Carcinogenesis Meeting. 28-30 August 2019, Toba (Mie).

Hayashi T. Management system of the Biosample Research Center of the RERF atomic bomb survivors and the new sample storage system. Invited Lecture at Korea National Cancer Center. 5 September 2019, Goyang-si (Korea).

Hayashi T. Radiation effects on immune and inflammatory markers among atomic bomb survivors. The 18th International Conference of the Pacific Basin Consortium for Environment and Health. 16-19 September 2019, Kyoto.

Noda A, Hamasaki K, Kodama Y, Nakamura N. Involvement of transcription factors that control embryonic morphogenesis in the repair of DNA-DSBs after fetus radiation exposure. The American Society of Human Genetics 2019 Annual Meeting. 15-19 October 2019, Houston (USA).

Noda A, Hirai Y, Nakamura N. Increased risk of skin cancer in Japanese heterozygotes of xeroderma pigmentosum (XP) group A. The 64th Annual Meeting of the Japan Society of Human Genetics. 6-9 November 2019, Nagasaki.

Amano MA, Noda A. Changes of DNA methylation status in the mouse imprinting control region (ICR) after radiation exposure or targeted introduction of DSBs in vitro and in vivo. The 62nd Annual Meeting of the Japanese Radiation Research Society. 14-16 November 2019, Kyoto.

Hayashi T, Furukawa K, Hayashi I, Yoshida K, Kyoizumi S, Ohishi W. Effects of radiation exposure on intracellular ROS levels and monocyte numbers among atomic bomb survivors. The 62nd Annual Meeting of the Japanese Radiation Research Society. 14-16 November 2019, Kyoto.

Satoh Y, Nishimura M, Kuo T, Shinkai N, Cullings HM, Minakuchi Y, Sese J, Toyoda A, Shimada Y, Nakamura N, Uchimura A. Mutation spectrum in the genome of offspring derived from irradiated mouse spermatogonia and mature oocytes. The 62nd Annual Meeting of the Japanese Radiation Research Society. 14-16 November 2019, Kyoto.

Uchimura A, Higuchi M, Satoh Y, Minakuchi Y, Tsuji T, Imanaka M, Miura A, Toyoda A, Yagi T. A new approach for de novo germline mutations using a mutation accumulation mouse model. The 62nd Annual Meeting of the Japanese Radiation Research Society. 14-16 November 2019, Kyoto.

Uchimura A, Satoh Y. De novo germline mutations and their phenotypic effects on future generations. The Joint Meeting of the 6th Asian Congress on Environmental Mutagens (ACEM) and the 48th Annual Meeting of the Japanese Environmental Mutagen Society (JEMS). 18-20 November 2019, Tokyo.

Hayashi T, Furukawa K, Yoshida K, Ohishi W, Hayashi I, Kyoizumi S. Association of intracellular ROS in blood cells with IL-6R. The 42nd Annual Meeting of the Molecular Biology Society of Japan. 3-6 December 2019.

Hayashi T, Yoshida K, Ohishi W, Kyoizumi S. Relationship between intracellular ROS in blood cells and immune and inflammatory biomarkers. The 48th Annual Meeting of the Japanese Society for Immunology. 11-13 December 2019, Hamamatsu (Shizuoka).

Uchimura A. Characterization of de novo germline mutations by using mutation accumulation mouse lin. Expanded Group Meeting, 2019, Scientific Support Programs for Genome Science. 16-17 December 2019, Nagoya.