

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

Castelletti N, Kaiser JC, Shimonetto C, Furukawa K, Kuchenhoff H, Stathopoulos GT. Risk of lung adenocarcinoma from smoking and radiation arises in distinct molecular pathways. *Carcinogenesis* 40. 2019; **10**:1240-50. [**Mm**]

Cologne JB, Furukawa K, Grant EJ, Abbott RD. Effects of omitting non-confounding predictors from general relative-risk models for binary outcomes. *J Epidemiol.* 2019; **29**(3):116-22. [**Drm**]

Cologne JB, Kim J, Sugiyama H, French B, Cullings HM, Preston DL, Mabuchi K, Ozasa K. Effect of heterogeneity in background incidence on inference about the solid-cancer radiation dose response in atomic-bomb survivors. *Radiat Res.* 2019; **192**(4):388-98. [**Lss, drm**]

Cologne JB, Takahashi I, French B, Nanri A, Misumi M, Sadakane A, Cullings HM, Araki Y, Mizoue T. Association of weight fluctuation with mortality in Japanese adults. *JAMA Network Open.* 2019; **2**(3):e190731. [**La, ahs**]

Cordova KA, Cullings HM. Assessing the relative biological effectiveness of neutrons across organs of varying depth among the atomic bomb survivors. *Radiat Res.* 2019; **192**(4):380-7. [**Dos, lss**]

Griffin K, Paulbeck C, Bolch W, Cullings HM, Egbert SD, Funamoto S, Sato T, Endo A, Hertel N, Lee C. Dosimetric impact of a new computational voxel phantom series for the Japanese atomic bomb survivors: Children and adults. *Radiat Res.* 2019; **191**(4):369-79. [**Dos**]

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. [**Dos**]

Jazic I, Haneuse S, French B, MacGrogran G, Rondeau V. Design and analysis of nested case-control studies for recurrent events subject to a terminal event. *Stat Med.* 2019; **38**(22):4348–62. [**La**]

Karmakar B, French B, Small DC. Integrating the evidence from evidence factors in observational studies. *Biometrika.* 2019; **106**(2):353-67. [**Ci**]

Kiuchi Y, Yanagi M, Itakura K, Takahashi I, Hida A, Ohishi W, Furukawa K. Association between radiation, glaucoma subtype, and retinal vessel diameter in atomic bomb survivors. *Sci Rep.* 2019; **9**(1):8642. [**Ahs**]

---

Okubo T, Akashi M, Ohishi W, Okazaki R, Ozasa K, Kasagi F, Katayama H, Kawai K, Kitamura H, Kim E, Kurihara O, Kodama K, Sasaki H, Shigemura J, Suto Y, Sobue T, Tani K, Taniguchi N, Hiro H, Hoshi H, Miyakawa M, Momose T, Yoshinaga S. Report of Epidemiological Study of Health Effects in Fukushima Emergency Workers. *Report of Epidemiological Study of Health Effects in Fukushima Emergency Workers*. 2019; **303p**.

Ozasa K, Cullings HM, Ohishi W, Hida A, Grant EJ. Epidemiological studies of atomic bomb radiation at the Radiation Effects Research Foundation. *Int J Radiat Biol*. 2019; **95**(7):879-91. [Lss, ahs, f1]

Paulbeck C, Griffin K, Lee C, Cullings HM, Egbert S, Funamoto S, Sato T, Endo A, Hertel N, Bolch W. Dosimetric impact of a new computational voxel phantom series for the Japanese atomic bomb survivors: Pregnant females. *Radiat Res*. 2019; **192**(5):538-61. [Dos]

Sadakane A, French B, Brenner AV, Preston DL, Sugiyama H, Grant EJ, Sakata R, Utada M, Cahoon EK, Mabuchi K, Ozasa K. Radiation and risk of liver, biliary tract, and pancreatic cancers among atomic bomb survivors in Hiroshima and Nagasaki: 1958-2009. *Radiat Res*. 2019; **192**(3):299-310. [Lss]

Sadakane A, Landes RD, Sakata R, Nagano J, Shore RE, Ozasa K. Medical radiation exposure among atomic bomb survivors: Understanding its impact on risk estimates of atomic bomb radiation. *Radiat Res*. 2019; **191**(6):507-17. [Lss]

Sakata R, Preston DL, Brenner AV, Sugiyama H, Grant EJ, Rajaraman P, Sadakane A, Utada M, French B, Cahoon EK, Mabuchi K, Ozasa K. Radiation-related risk of cancers of the upper digestive tract among Japanese atomic bomb survivors. *Radiat Res*. 2019; **192**(3):331-44. [Lss]

Yamada M, Landes RD, Hida A, Ishihara K, Krull KR. Effects of demographic variables on subjective neurocognitive complaints using the Neurocognitive Questionnaire (NCQ) in a aged Japanese population. *Int J Environ Res Public Health*. 2019; **16**(3):421-30. [Ahs]

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**(1):107-15. [La, ahs]

Brenner AV, Sugiyama H, Preston DL, Sakata R, French B, Sadakane A, Cahoon EK, Utada M, Mabuchi K, Ozasa K. Radiation risk of central nervous system tumors in the Life Span Study of atomic bomb survivors, 1958-2009. *Eur J Epidemiol*. 2020; **1-10**.

---

Cologne JB, Sugiyama H, French B, Cullings HM, Preston DL, Mabuchi K, Ozasa K, Grant EJ. Response to the letter to the editor by Drs. Walsh and Schneider. *Radiat Res.* 2020; **194**(1):101.

French B, Sadakane A, Cologne JB, Mabuchi K, Ozasa K, Preston DL. Misclassification of primary liver cancer in the Life Span Study of atomic bomb survivors. *Int J Cancer.* 2020; **1-15**.

Kaiser JC, Misumi M, Furukawa K. Biologically based modeling of radiation risk and biomarker prevalence for papillary thyroid cancer in Japanese a-bomb survivors 1958-2005. *Int J Radiat Biol.* 2020. 2020; **p. 1-12**. [*Mm*]

Kim YM, Cologne JB, Jang E, Lange t, Tatsukawa Y, Ohishi W, Utada M, Cullings HM. Causal mediation analysis in nested case-control studies using conditional logistic regression. *Biom J.* 2020. [*Ci*]

Little MP, Pawel DJ, Misumi M, Hamada N, Cullings HM, Wakeford R, Ozasa K. Lifetime mortality risk from cancer and circulatory disease predicted from the Japanese atomic bomb survivor Life Span Study data taking account of dose measurement error. *Radiat Res.* 2020; **194**(1-18).

Sato T, Funamoto S, Paulbeck C, Griffin K, Lee C, Cullings HM, Egbert SD, Endo A, Hertel N, Bolch WE. Dosimetric impact of a new computational voxel phantom series for the Japanese atomic bomb survivors: Methodological improvements and organ dose response functions. *Radiat Res.* 2020; **194**(1-13). [*Dos*]

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. *Sci Rep.* 2020; **10**(1):37.

Sugiyama H, Misumi M, Brenner AV, Grant EJ, Sakata R, Sadakane A, Utada M, Preston DL, Mabuchi K, Ozasa K. Radiation risk of incident colorectal cancer by anatomical site among atomic bomb survivors: 1958-2009. *Int J Cancer.* 2020; **146**(635-645). [*Lss*]

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; **Tokyo**:1-8.

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.

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.

<Submitted>

Mabuchi K, Preston DL, Brenner AV, Sugiyama H, Utada M, Sakata R, Sadakane A, Grant EJ, French B, Cahoon EK, Ozasa K. Increased risk of prostate cancer among atomic bomb survivors: 1958-2009. *Radiation Research.* 2020; **Submitted.** [[Lss](#)]

2) **Meeting Presentations (January 2019 - December 2019):**

Utada M, Brenner AV, Preston DL, Sakata R, [Cologne JB](#), Grant EJ, Sugiyama H, Sadakane A, Mabuchi K, Ozasa K. Effect of age at exposure on risk of uterine corpus cancer incidence in atomic bomb survivors. 29th Annual Scientific Meeting of the Japan Epidemiological Association. 30 January – 01 February, 2019, Tokyo.

[Misumi M](#). Effects of measurement errors in radiation epidemiology and methods for the correction. Osaka Biomedical Statistics Seminar, 13 February, 2019, Osaka.

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. 26th International Symposium on Molecular Cell Biology of Macrophages. 06-07 June, 2019, Tokyo.

Sugiyama H, [Misumi M](#), Brenner AV, Grant EJ, Sakata R, Sadakane A, Utada M, Preston DL, Mabuchi K, Ozasa K. Radiation risk of colorectal cancer by anatomical site among atomic bomb survivors: 1958-2009. NAACCR/IACR Combined Annual Conference, 08-13 June, 2019, Vancouver, Canada.

Bockwoldt B, Sugiyama H, Brenner AV, Hu A, Kerr K, Bhatti P, Grant EJ, [French B](#), Phipps A. Gastrointestinal cancer survival among atomic bomb survivors. Annual Meeting of the Society for Epidemiologic Research, 18-21 June, 2019, Minneapolis, Minnesota, USA.

[Misumi M](#). Measurement error correction for radiation risk estimation in atomic bomb survivor studies. WNAR (Western north American region) of the International Biometric Society Annual meeting, 23-26, June, 2019, Portland, Oregon, USA.

Utada M, Brenner AV, Sakata R, [Cologne JB](#), Grant EJ, Sugiyama H, Sadakane A, Preston DL, Mabuchi K, Ozasa K. Risk of uterine cervical cancer incidence among atomic bomb

## PUBLICATIONS AND MEETING PRESENTATIONS

Department of Statistics

Page 5

---

survivors: 1958-2009. 26th Conference on Japanese Association for Cancer Prevention. 28-29 June, 2019, Sapporo.

Griffin K, Paulbeck CJ, Bolch WE, Cullings HM, Egbert SD, Funamoto S, Sato T, Endo A, Hertel N, Lee C. Dosimetric impact of a new computational voxel phantom series for the Japanese atomic bomb survivors: Children and adults. 64th Annual Meeting of the Health Physics Society. 07-11 July, 2019, Orlando, Florida, USA.

Paulbeck CJ, Griffin K, Choonsik L, Cullings HM, Egbert SD, Funamoto S, Sato T, Endo A, Hertel N, Bolch W. Dosimetric impact of a new computational voxel phantom series for the Japanese atomic bomb survivors: pregnant females. 64th Annual Meeting of the Health Physics Society. 07-11 July, 2019 Orlando, Florida, USA.

French B, Sadakane A, Cologne JB, Preston DL. Misclassification of primary liver cancer in the Life Span Study of atomic bomb survivors. 40th Annual Conference of the International Society for Clinical Biostatistics. 14-18 July, 2019, Leuven, Belgium.

Misumi M. Evaluation of measurement error in radiation dose estimate for dose-response modeling of cancer risk. 40th Annual Conference of the International Society for Clinical Biostatistics, 14-18 July, 2019, Leuven, Belgium.

Griffin K, Paulbeck C, Bolch W, Cullings HM, Egbert SD, Funamoto S, Sato T, Endo A, Hertel N, Lee C. Groundwork for potential revision of radiation exposure assessments for the Japanese atomic bomb survivors. 61st Annual Meeting of the American Association of Physics in Medicine. 14-18 July, 2019, San Antonio, Texas, USA.

Bolch W, Griffin K, Paulbeck C, Lee C, Cullings HM, Egbert SD, Funamoto S, Sato T, Endo A, Hertel N. The J45 phantom series and their potential for updates to the atomic bomb survivor organ doses. 7th International Workshop on Computational Human Phantoms. 22-24 July, 2019, Munich, Germany.

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. 44th Annual Meeting of the Chugoku Area Radiation Research Society. 02 August, 2019, Hiroshima.

Cordova KA, Cologne JB, Nakamizo T, Takahashi I. Using structural regression models to account for correlated clinical outcomes when assessing radiation effects: Benefits and cautions. 16th International Congress of Radiation Research, 25-29 August, 2019, Manchester, UK.

Hamasaki K, Noda A, Kodama Y, Cologne JB, Nakamura N. mFISH analysis of the single colony derived from X-irradiated fetal hematopoietic stem cell (HSC). 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

## PUBLICATIONS AND MEETING PRESENTATIONS

Department of Statistics

Page 6

---

exposure among atomic bomb survivors. 16th International Congress of Radiation Research, 25-29 August, 2019, Manchester, UK.

Little MP, Misumi M, Ozasa K, Grant EJ. Bayesian dosimetric error models fitted to Japanese A-bomb Life Span Study mortality data and predicted population cancer and non-cancer risk. 16th International Congress of Radiation Research, 25-29 August, 2019, Manchester, UK.

Misumi M. Statistical evaluation of low dose radiation dose-response allowing for measurement errors. 16th International Congress of Radiation Research 25-29 August, 2019 Manchester, UK.

Sakata R, Preston DL, Brenner AV, Sugiyama H, Grant EJ, Sadakane A, Utada M, French B, Cahoon EK, Mabuchi K, Ozasa K. Radiation risk of upper digestive tract cancers among atomic-bomb survivors in Hiroshima and Nagasaki: 1958-2009. 16th International Congress of Radiation Research, 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. 16th International Congress of Radiation Research, 25-29 August, 2019, Manchester, UK.

Sugiyama H, Misumi M, Ozasa K. Mortality risk of in-utero exposure to atomic bomb radiation: 1950-2012. 16th International Congress of Radiation Research, 25-29 August, 2019, Manchester, UK.

Utada M, Brenner AV, Sakata R, Cologne JB, Grant EJ, Sugiyama H, Sadakane A, Preston DL, Mabuchi K, Ozasa K. Radiation risk of uterine corpus cancer among atomic-bomb survivors in Hiroshima and Nagasaki: 1958-2009. 16th International Congress of Radiation Research, 25-29 August, 2019, Manchester, UK.

Misumi M. An introduction of atomic bomb survivor studies and the recent advances of its statistical methods. 10th Annual Meeting of the Japanese Statistical Societies, 08-12 September 2019, Hikone.

Hayashi T, Lynch HE, Geyer SM, French B, Yoshida K, Hayashi I, Kyoizumi S, Kusunoki Y, Ohishi W, Fujiwara S, Shterev I, Nikolich-Zugich J, Murasko D, Hale LP, Sempowski GD, Nakachi K. Effects of aging and radiation exposure on influenza vaccine responses among Hiroshima atomic-bomb survivors. 17th International Conference on Immunology and Vaccine Research, 10-11 October, 2019, Osaka.

French B. Regression models for longitudinal data. Department of Preventive Medicine, Korea University, 29-30 October, 2019, Seoul, South Korea.

French B. Unmeasured confounding in studies of atomic bomb survivors. Department of Preventive Medicine, Korea University, 29-30 October, 2019, Seoul, South Korea.

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. 62nd Annual Meeting of the Japan Radiation Research Society, 14-16 November, 2019, Kyoto.

Takahashi N, Murakami H, Ohishi W, Misumi M, Nagamachi A, Inaba T, Tsuyama N, Mizuno H. The association between radiation exposure and increasing risk of circulatory diseases. -Attempt to infer potential mechanisms underlying the radiation-associated circulatory disease-. 62nd Annual Meeting of the Japan 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. 62nd Annual Meeting of the Japan Radiation Research Society, 14-16 November, 2019, Kyoto.

Cullings HM, Cordova KA. The RBE of neutrons in the Japanese atomic-bomb survivors. 65th Annual Meeting of the Radiation Research Society, 03-06 November, 2019, San Diego, California, USA.

Brenner AV, Cologne JB, Sugiyama H, French B, Sakata R, Grant EJ, Mabuchi K, Preston DL, Ozasa K. All solid cancer incidence and mortality dose-response in the Life Span Study of atomic bomb survivors. 5th International Symposium on Radiation Protection, 17-21 November, 2019, Adelaide, Australia.

Misumi M. Consideration of low-dose radiation risk in the presence of measurement error from a statistical perspective. 5th International Symposium on Radiation Protection, 17-21 November, 2019, Adelaide, Australia.

Hayashi T, Furukawa K, Yoshida K, Ohishi W, Hayashi I, Kyoizumi S. Association of intracellular ROS in blood cells with IL-6R. 42nd Annual Meeting of the Molecular Biology Society of Japan, 03-06 December, 2019 Fukuoka.