SUMMARY OF PUBLICATIONS

Department of Molecular Biosciences

1.	# publications (including in-press) in 2024–present on which at least one departmental member was listed as an author or co-author	19 (3)
2.	# publications (including in-press) in 2024–present originating in your department	14 (2)
3.	# publications in #1-2 above with first author in the department	15 (2)
4.	# publications in #2 with outside investigator as first author	0
5.	# publications in #2 linked to RPs	12 (2)

* Total number of publications, with number in the Japanese language given in parenthesis.

1) Published and in-press reports (2022 - Current):

<2024 - Current>

1. Hiratsuka T, Yoshizawa A, Endo T, Yamamoto T, Toyokuni S, Tsuruyama T. Formalin-Fixed Paraffin-Embedded proteomics of malignant mesothelioma and new candidate biomarkers thioredoxin and superoxide dismutase 2 for immunohistochemistry. *Lab Invest* 2024 (2); 104(2):100299 [No RP]

2. Hiratsuka T, Tsuruyama T. Mass spectrometry analysis using formalin-fixed paraffin-embedded pathological samples. *Electron Microscopes and Their Applications* 2024 (5):1-17 [No RP]

3. Kobayashi G, Ito R, Taga M, Koyama K, Yano S, Endo T, Kai T, Yamamoto T, Hiratsuka T, Tsuruyama T. Proteomic profiling of FFPE specimens: Discovery of HNRNPA2/B1 and STT3B as biomarkers for determining formalin fixation durations. *J Proteomics* 2024 (6); 301:105196 [No RP]

4. Kodama Y, Nakamura N, Nakano M, Ohtaki K, Hamasaki K, Noda A. Cytogenetic validation of DS02R1-estimated dose for atomic bomb survivors in Hiroshima and Nagasaki with FISH. *Int J Radiat Biol,* 2024 (8); 100(8):1155-64. [RP8-93]

5. Kusunoki Y, Miura M, Yamaoka M, Nagamura H, Misumi M, Yoshida K. Mouse study to estimate the time of mutation generation in radiation-induced clonal hematopoiesis. *Nagasaki Medical Journal* 2024; 99: 239-44. (in Japanese) [RP1-23-3]

6. Matsuda Y, Tanabe O. Whole genome sequencing analysis of somatic mutations induced in normal cells by ionizing radiation *Radiat Biol Res Commun* 2025; In Press. (in Japanese) [RP-P3-19]

7. Nakamizo T, Cologne JB, Kishi T, Takahashi T, Inoue M, Ryukaku H, Hayashi T, Kusunoki Y, Fujiwara S, Ohishi W. Reliability, stability during long-term storage, and intra-individual variation of circulating levels of osteopontin, osteoprotegerin, vascular endothelial growth factor-A, and interleukin-17A. *Eur J Med Res* 2024 (2); 29(1):133 [RP2-11]

8. Nakamura N. An examination of the dose rate effect in mice assuming that the carcinogenic effect of radiation is life shortening resulting from a tissue reaction. *Int J Radiat Biol*, 2025; 1-7. Online ahead of print. [RP1-75]

9. Nakamura N. Reasons why the idea that radiation exposures induce cancer needs to be revisited. *Int J Radiat Biol,* 2024 (6); 100(6):824-33. [RP1-75]

10. Nakamura N, Yoshida N, Suwa T. Three major reasons why transgenerational effects of radiation are difficult to detect in humans. *Int J Radiat Biol* 2024 (9); 100(9):1297-311. [RP1-07]

11. Nakamura N. Are cancer risks from radiation probabilistic (stochastic) or deterministic (tissue reaction)? *Int J Radiat Biol* 2025; In Press. [RP1-75]

12. Noda A. Morphogenesis-coupled DNA repair - In mammalian embryogenesis, morphogenesis and DNA double strand break (DSB) repair are carried out simultaneously to ensure normal development. *J Radiat Res* (Tokyo) 2024 (5); 65(3):416-9. [RP-A4-09]

13. Sasatani M, Xi Y, Kajimura J, Piao J, Masuda Y, Honda H, Karamfilova Zaharieva EK, Hamasaki K, Kusunoki Y, Shimura T, Kakinuma S, Shimada Y, Sotomaru Y, Kamiya K. Rev1 overexpression accelerates N-methyl-N-nitrosourea (MNU)-induced thymic lymphoma by increasing mutagenesis. *Cancer Sci* 2024 (6); 115(6):1808-19 [RP 3-87]

14. Taga M, Kobayashi G, Yano S, Koyama K, Tsuruyama T. Assessing onsager's reciprocity difference in signal transduction cascade model: A new metric for evaluating cellular response dynamics. *Eur Phys J Plus* 2024 (7); 139:649 [RP-P1-24]

15. Taga M, Yoshida K, Yano S, Takahashi K, Kyoizumi S, Sasatani M, Suzuki K, Ogawa T, Kusunoki Y, Tsuruyama T. Hepatic stellate cell-mediated increase in CCL5 chemokine expression after X-ray irradiation determined in vitro and in vivo. *Radiat Res.* 2024; 202: 862-69. [No RP]

16. Tanabe O. Biorepository of atomic bomb survivors and their offspring. *Hiroshima Igaku* [J Hiroshima Med Assoc] 2024 (4); 77(4):144-51. (in Japanese) [RP3-15]

17. Yoshida K, Misumi M, Yamaoka M, Kyoizumi S, Ohishi W, Sugiyama H, Hayashi T, Kusunoki Y. Naive CD4 T cells highly expressing the inflammatory chemokine receptor CXCR3 increase with age and radiation exposure in atomic bomb survivors. *Radiat Res* 2024 (1); 201(1):71-6. [RP-P1-22]

18. Yoshida K, Liu Z, Kubo Y, Miura M, Yamaoka M, Nagamura H, Misumi M, Kusunoki Y. Spermidine alleviates thymopoiesis defects and aging of the peripheral T-cell population in mice after radiation exposure. *Exp Gerontol*, 2025; 199:112646 [RP1-23-3]

19. Yoshida K, Misumi M, Hamasaki K, Kyoizumi S, Satoh Y, Tsuruyama T, Uchimura A, Kusunoki Y. High-dose radiation preferentially induces clonal expansion of hematopoietic progenitor cells over mature T and B cells in mouse bone marrow. *Stem Cell Reports* 2025; 20(3):102423. [RP1-23-3]

<Submitted>

1. Hayashi T, Tanimoto T, Kato N, Hayashi I, Yoshida K, Imaizumi M, Hida A, Ohishi W, Tanabe O, Kyoizumi S. Exploring erythrocyte glycophorin A somatic mutations and ERCC5 genotypes in atomic bomb survivors: An association analysis. [RP3-87, RP4-04]
2. Sugo N, Uchimura A, Matsumoto R, Nakayama H, Fujimoto S, Toshishige M, Satoh Y, Wakayama S, Wakayama T, Yagi T. DNA polymerase β suppresses somatic indels at CpG dinucleotides in developing cortical neurons. [RP2-13]

<2023>

1. Gon Y, Kandou T, Tsuruyama T, Iwasaki T, Kitagori K, Murakami K, Nakashima R, Akizuki S, Morinobu A, Hikida M, Mimori T, Yoshifuji H. Increased number of T cells and exacerbated inflammatory pathophysiology in a human IgG4 knock-in MRL/lpr mouce model. *PLoS ONE*, 2023 (2); 18(2):e0279389. [No RP]

2. Hamasaki K, Matsumoto T, Cologne JB, Mukai M, Kodama Y, Noda A, Nakamura N. Translocations are induced in hematopoietic stem cells after irradiation of fetal mice. *J Radiat Res* (Tokyo), 2023; 64(1):99-104. [RP-P4-17]

3. Hayashi T, Kato N, Furudoi K, Hayashi I, Kyoizumi S, Yoshida K, Kusunoki Y, Furukawa K, Imaizumi M, Hida A, Tanabe O, Ohishi W. Early-life atomic-bomb irradiation accelerates immunological aging and elevates immune-related intracellular reactive oxygen species. *Aging Cell* 2023; 22(10): e13940.[RP4-02, RP3-07, RP2-11]

4. Hiratsuka T, Ito S, Sakai R, Yokose T, Endo T, Daigo Y, Miyagi Y, Tsuruyama T. Proteome analysis of CD5-positive diffuse large B cell lymphoma FFPE tissue reveals downregulation of DDX3X, DNAJB1, and B cell receptor signaling pathway proteins including BTK and immunogloblins. *Clin Proteomics* 2023 (9); 20:36. [No RP]

5. Hiratsuka T, Yoshizawa A, Endo T, Yamamoto T, Toyokuni S, Tsuruyama T. FFPE proteomics of malignant mesothelioma and new candidate biomarkers thioredoxin and superoxide dismutase 2 for immunohistochemistry. *Lab Invest*, 2023/11/25 [Epub]:100299 [No RP]

6. Kobayashi G, Hayashi T, Sentani K, Uraoka N, Fukui T, Kido A, Katsuya N, Ishikawa A, Babasaki T, Sekino Y, Nose H, Hinata N, Oue N. Clinicopathological significance of TUBB3 in upper tract urothelial carcinoma and possible application in urine cytology. *Pathol Int*, 2023; 73(9):444-55. [No RP]

7. Liu Z, Cologne JB, Amundson SA, Noda A. Candidate biomarkers and persistent transcriptional responses after low and high dose ionizing radiation at high dose rate. *Int J Radiat Biol*, 2023; 99(12):1853-64. [No RP]

8. Matsuda Y, Uchimura A, Satoh Y, Kato N, Toshishige M, Kajimura J, Hamasaki K, Yoshida K, Hayashi T, Noda A, Tanabe O. Spectra and characteristics of somatic mutations induced by ionizing radiation in hematopoietic stem cells. *Proc Natl Acad Sci USA*, 2023 (4); 120(15):e2216550120. [RP-P3-19]

9. Mika J, Yoshida K, Kusunoki Y, Candias SM, Polanska J. Sex- and age-specific aspects of human peripheral T-cell dynamics. *Front Immunol*, 2023 (10); 14:1224304. [RP-P1-14]

10. Mizutani T, Ano T, Yoshida Y, Mizuta S, Takemoto K, Ouchi Y, Morita D, Kitano S, Miyachi H, Tsuruyama T, Fujiwara N, Sugita M. Neutrophil S100A9 supports M2 macrophage niche formation in granulomas. *iScience*, 2023; 26(3):106081 [No RP]

11. Nagao M, Mizukoshi K, Nakayama S, Namikawa M, Hiramatsu Y, Maruno T, Nakanishi Y, Tsuruyama T, Fukuda A, Seno H. p53 protects against formation of extrahepatic biliary precancerous lesions in the context of oncogenic Kras. *Oncotarget* 2023 (3); 14:276-9 [No RP]

12. Nakamura N. Radiation-induced increases in cancer mortality result from an earlier onset of the disease in mice and atomic bomb survivors. *Int J Radiat Biol*, 2023; 99(8):1139-47. [RP1-75]

13. Nakamura N, Yoshida N, Suwa T. Three major reasons why transgenerational effects of radiation are difficult to detect in humans. *Int J Radiat Biol* 2023/03 [Epub]:1-29. [RP1-07]

14. Nakamura N. Variations in somatic cell radiosensitivity among individuals. *JART[J Japan Association of Radiological Technologists]*, 2023; 70(5):47-52 (in Japanese) [No RP]

15. Nakamura N. IES can lead radiation effects research around the world. *IES 30years History*, 2023 (5); pp57. (in Japanese) [No RP]

16. Namikawa M, Fukuda A, Mizukoshi K, Iwane K, Kawai M, Yamakawa G, Omatsu M, Sono M, Masuda T, Araki O, Nagao M, Yoshikawa T, Ogawa S, Hiramatsu Y, Muta Y, Tsuda M, Maruno T, Nakanishi Y, Tsuruyama T, Taura K, Hatano E, Seno H. Simultaneous activation of Kras-akt and Notch pathways induces extrahepatic biliary cancer via mTORC1 pathway. *J Pathol*, 2023 (8); 260(4):478-92. [No RP]

17. Nishida Y, Shirakashi M, Hashii N, Nakashima R, Nakayama Y, Katsushima M, Watanabe R, Onizawa H, Hiwa R, Tsuji H, Kitagori K, Akizuki S, Onishi A, Murakami K, Yoshifuji H, Tanaka M, Tsuruyama T, Morinobu A, Hashimoto M. Pathogenicity of IgG-Fc desialylation and its association with Th17 cells in animal model of systemic lupus erythematosus. *Mod Reumatol*, 2023/06/10 [Epub]:1-7. [No RP]

18. Noda A, Muramoto K, Mishima S. ATM-dependent phosphorylation of CHD7 regulates morphogenesis-coupled DSB stress response in fetal radiation exposure. *Mol Biol Cell*, 2023; 34(5):ar39. [RP-A4-09]

19. Sposto R, Cordova KA, Hamasaki K, Nakamura N, Noda A, Kodama Y. The association of radiation exposure with stable chromosome aberrations in atomic bomb survivors based on DS02R1 dosimetry and FISH methods. *Radiat Res* 2023 (2); 199(2):170-81.[RP8-93]

20. Sposto R, Sugiyama H, Tsuruyama T, Brenner AV. Effect of radiation exposure on survival after first solid cancer diagnosis in A-bomb survivors. *Cancer Epidemiol*, 2023 (4); 83:102341. [RP1-75, RP18-61]

21. Tajima T, Hata K, Kusakabe J, Miyauchi H, Badshah JS, Kageyama S, Zhao X, Kim SK, Tsuruyama T, Kirchner VA, Watanabe T, Uemoto S, Hatano E. Anti-complement 5 antibody ameliorates antibody-mediated rejection after liver transplantation in rats. *Front Immunol*, 2023 (6); 14:1186653. [No RP]

22. Takase Y, Shirakashi M, Nishida Y, Katsushima M, Onizawa H, Hiwa R, Tsuji H, Kitagori K, Akizuki S, Onishi A, Nakashima R, Murakami K, Yoshifuji H, Tanaka M, Tsuruyama T, Morinobu A, Hashimoto M. Enteric Toll-like receptor 7 stimulation causes acute exacerbation in lupus-susceptible mice. *Clin Rheumatol*, 2023 (4); 42(4):1185-1194. [No RP]

23. Toda R, Seo S, Uemoto Y, Morino K, Nishino H, Nakamura N, Okuno M, Iguchi K, Sato M, Nakamura K, Taura K, Nakagawa S, Nakagawa T, Tsuruyama T, Manabe T, Kawaguchi H, Iwaisako K, Ikegawa M, Uemoto S, Hatano E. Clinically relevant model of oxaliplatin-induced sinusoidal obstruction syndrome. *Hepatol Res*, 2023; 53(2):145-59. [No RP]

24. Tsuruyama T. Critical factors of infection wavy curve oscillation of COVID-19 and future predictions in Japan. *J Infect Dis Ther*, 2023; 11(1):526 [No RP]

25. Tsuruyama T. Kullback-Leibler divergence of an open-queuing network of a cell-signal-transduction cascade. *Entropy*, 2023 (2); 25(2):326. [No RP]

26. Tsuruyama T. Thermodynamics of signal transduction systems and fluctuation theorem in a signal cascade. *Eur Phys J Plus*, 2023; 138(3):269. [No RP]

27. Tsuruyama T. RNA polymerase in a unique Maxwell's demon that converts its transcribing genetic information to free energy for its movement. *Eur Phys J Plus*, 2023; 138(7):604. [No RP]

28. Tsuruyama T. Channel capacity: Limitation of entropy rate during cell signal transduction. *Eur Phys J Plus*, 2023; 138(7):665. [No RP]

29. Tsuruyama T, Hiratsuka T. Biophysical model for DNA mutations induced by retroviral genome insertion based on the probability density function of mutation distribution. *Eur Phys J Plus*, 2023 (11); 138:996. [No RP]

30. Tsuruyama T. Biobank history and future. Handbook of Human Bioresource and Data, *Yo-do sha,* 2023; 15-17. (in Japanese) [No RP]

31. Yadav BK, Ng W, Vu H, Fachiroh J, Tsuruyama T, Zhou L, Henderson MK, Gokhale S, Furuta K. Improving public trust in biobanking: Roundtable discussions from the 2021 ISBER annual meeting. *Biopreserv Biobank*, 2023 (6); 21(3):308-12. [No RP]

32. Yamasaki N, Miura K, Ogata S, Miura S, Uchimura A, Satoh Y, Toshishige M, Hosomi N, Gamboa M, Kitamura N, Kaminuma O. Exp Anim 2023 (11); 72(4):454-9. [No RP]

<2022>

1. Cologne J, Sugiyama H, Hamasaki K, Tatsukawa Y, French B, Sakata R, Misumi M. Chromosome aberrations among atomic-bomb survivors exposed in utero: Updated analysis accounting for revised radiation doses and smoking. *Radiat Environ Biophys*, 2022; 61(1): 59-72. [RP-S3-19]

2. Farne KK, Tsuruyama T. Epidermal growth factor receptor cascade prioritizes the maximization of signal transduction. *Sci Rep,* 2022; 12(1):16950. [No RP]

3. Fukunaga Y, Fukuda A, Omatsu M, Namikawa M, Sono M, Masuda T, Araki O, Nagao M, Yoshikawa T, Ogawa S, Hiramatsu Y, Muta Y, Tsuda M, Maruno T, Nakanishi Y, Ferrer J, Tsuruyama T, Masui T, Hatano E, Seno H. Loss of Arid1a and Pten in pancreatic ductal cells induces intraductal tubulopapillary neoplasm via the YAP/TAZ pathway. *Gastroenterol,* 2022; 163(2):466-80. [No RP]

4. Hiratsuka T, Yamamoto T, Yoshizawa A, Toyokuni S, Tsuruyama T. RhoA and vigilin are candidates for immunohistochemical markers for epithelioid malignant mesothelioma. *Sci Rep,* 2022; 12(1):18519. [No RP]

5. Nagao M, Fukuda A, Omatsu M, Namikawa M, Sono M, Fukunaga Y, Masuda T, Araki O, Yoshikawa T, Ogawa S, Masuo K, Goto N, Hiramatsu Y, Muta Y, Tsuda M, Maruno T, Nakanishi Y, Taketo MM, Ferrer J, Tsuruyama T, Nakanuma Y, Taura K, Uemoto S, Seno H. Concurrent activation of Kras and canonical Wnt signaling induces premalignant lesions that progress to extrahepatic biliary cancer in mice. *Cancer Res,* 2022; 82(9):1803-17. [No RP]

6. Nakamura N. Mechanisms of radiation carcinogenesis: What is really induced? *Radiat Prot Dosimetry,* 2022; 198(13-15):1090-7. [RP1-75]

7. Nakamura N. Cancer 1 (Risk, Animal experiments, Epidemiology). *JART [J Japan Association of Radiological Technologists],* 2022; 69(1):96-9. (in Japanese) [No RP]

8. Nakamura N. Cancer 2 (Mechanism of radiation inflammation). *JART [J Japan Association of Radiological Technologists],* 2022; 69(2):61-6. (in Japanese) [No RP]

9. Nakamura N. Radiation and heredity: The basics of genetics. *JART [J Japan Association of Radiological Technologists],* 2022; 69(3):66-70. (in Japanese) [No RP]

10. Nakamura N. Radiation and heredity: Effects of radiation. *JART [J Japan Association of Radiological Technologists],* 2022; 69(4):86-90. (in Japanese) [No RP]

11. Nakamura N. Abnormalities at birth as genetic effects caused by A-bomb radiation. *JART [J Japan Association of Radiological Technologists],* 2022; 69(11):52-8. (in Japanese) [No RP]

12. Nakamura N. Radiation-induced mutation and cancer. *Radiation Effects Association News,* 2022; (110):7-12. (in Japanese) [RP1-75, RP7-85]

13. Nakamura N, Yoshida N, Suwa T. Why mouse resting oocytes are resistant to radiation mutagenesis. *Hoshasen Seibutsu Kenkyu [Radiat Biol Res Commun],* 2022; 57(2):152-63. (in Japanese) [RP1-07]

14. Noda A, Nakamura N. Analysis of in vivo, in situ occurring mutations with genetically modified mice. *Hoshasen Seibutsu Kenkyu [Radiat Biol Res Commun],* 2022; 57(3):192-201. (in Japanese) [RP1-08]

15. Noda A. RERF future genome studies on atomic bomb survivors and their children. *Hiroshima Igaku [J Hiroshima Med assoc],* 2022; 75(4):173-7. (in Japanese) ［No RP］

16. Pugh JL, Coplen CP, Sukhina AS, Uhrlaub JL, Padilla-Torres J, Hayashi T, Nikolich-Žugich J. Lifelong cytomegalovirus and early-LIFE irradiation synergistically potentiate age-related defects in response to vaccination and infection. *Aging Cell,* 2022; 21(7):e13648. [RP 4-09]

17. Shirakashi R, Kozlakidis Z, Yadav BK, Ng W, Fachiroh J, Vu H, Tsuruyama T, Furuta K. Decarbonization in biobanking: A potential new scientific area. *Biopreserv Biobank,* 2022; 20(5):446-50. [No RP]

18. Takase Y, Shirakashi M, Nishida Y, Katsushima M, Onizawa H, Hiwa R, Tsuji H, Kitagori K, Akizuki S, Onishi A, Nakashima R, Murakami K, Yoshifuji H, Tanaka M, Tsuruyama T, Morinobu A, Hashimoto M. Enteric Toll-like receptor 7 stimulation causes acute exacerbation in lupus-susceptible mice. *Clin Rheumatol,* 2022; [Epub]:1-10. [No RP]

19. Tsuruyama T. Nonlinear model of infection wavy oscillation of COVID-19 in Japan based on diffusion kinetics. *Sci Rep,* 2022; 12:19177. [No RP]

20. Uchimura A, Matsumoto H, Satoh Y, Minakuchi Y, Wakayama S, Wakayama T, Higuchi M, Hashimoto M, Fukumura R, Toyoda A, Gondo Y, Yagi T. Early embryonic mutations reveal dynamics of somatic and germ cell lineages in mice. *Genome Res,* 2022; 32(5):945-55 [No RP]

21. Uchimura A. Radiation and genetics, exposure and health. --Keisyo to tayosei no minamoto [Origin of inheritance and diversity] *Idengaku no hyakkajiten [Encyclopedia of genetics],* 2022; 16-7. (in Japanese) [No RP]

22. Uemoto Y, Taura K, Nakamura D, Xuefeng L, Nam NH, Kimura Y, Yoshino K, Fuji H, Yoh T, Nishio T, Yamamoto G, Koyama Y, Seo S, Tsuruyama T, Iwaisako K, Uemoto S, Tabata Y, Hatano E. Bile duct regeneration with an artificial bile duct made of gelatin hydrogel nonwoven fabrics. *Tissue Eng PartA,* 2022; 28(17-18):737-48. [No RP]

23. Yoshida K, Satoh Y, Uchimura A, Misumi M, Kyoizumi S, Taga M, Matsuda Y, Noda A, Kusunoki Y. Massive expansion of multiple clones in the mouse hematopoietic system long after whole-body X-irradiation. *Sci Rep,* 2022; 12(1):17276. [RP 1-08]

24. Yoshinaga M, Han K, Morgens DW, Horii T, Kobayashi R, Tsuruyama T, Hia F, Yasukura S, Kajiya A, Cai T, Cruz PHC, Vandenbon A, Suzuki Y, Kawahara Y, Hatada I, Bassik MC, Takeuchi O. The N6-methyladenosine methyltransferase METTL16 enables erythropoiesis through safeguarding genome integrity. *Nat Commun,* 2022; 13(1):6435. [No RP]

2) Meeting presentations (January 2024 - December 2024):

Hayashi T. Effects of radiation exposure on immune aging and immune-related intracellular reactive oxygen species. Dept. of Radiobiology and Hygiene Management Conference. 22 February 2024, KitaKyushu [RP4-02, RP3-07, RP2-75, RP2-11]

Uchimura A. De novo mutations and their impact on future generations. BEAR2024. 15-17 March 2024, Tokyo [RP3-23]

Gondo Y, Uchimura A, Yoneya M, Tanaka S, Komura J, Kimura M, Ohno M, Toki H, Bando M, Tsunoyama Y, Matsumoto Y, Maki H, Shimada Y. A multidisciplinary challenge to assess the next-generation risks of low-dose-rate long-term gamma-ray exposure by whole-genome sequencing in the mouse model. BEAR2024. 15-17 March 2024, Tokyo [RP2-13]

Tsunoyama Y, Bando M, Gondo Y, Uchimura A, Toki H. Exploring the range of "background radiation dose-rates" based on the wam model estimation and the results of the base substitution analysis in long-term irradiation experiments on mice. BEAR2024. 15-17 March 2024, Tokyo [No RP]

Kobayashi G, Hiratsuka T, Koyama K, Yano S, Endo T, Taga M, Ito R, Tsuruyama T. Identification of candidate biomarkers for quality control in formalin-fixed paraffin-embedded specimens. 113th Annual Meeting of the Japanese Society of Pathology. 28-30 March 2024, Nagoya [No RP]

Yoshida K, Miura M, Kubo Y, Yamaoka M, Nagamura H, Liu Z, Misumi M, Kyoizumi S, Kusunoki Y. Reduced thymopoiesis in mice following radiation exposure was alleviated by spermidine. Keystone Symposia: Systems and Engineering Immunology. 9-12 April 2024, Banff, Canada [RP1-23-3]

Yasuda T, Shimada S, Sonoda S, Sawada J, Aoki H, Shibata S, Sakakibara R, Honda T, Shirai T, Furusawa H, Tateishi T, Okamoto T, Tanaka Y, Tanimoto K, Takeuchi H, Miyazaki Y. A case of refractory COVID-19 pneumonia caused by perisistent SARS-CoV-2 infection successfully treated with long-term nilumatrevir/ritonavir. 259th Kanto Regional Meeting of the Japanese Respiratory Society. 11 May 2024, Tokyo [No RP]

Kusunoki Y, Miura M, Yamaoka M, Nagamura H, Misumi M, Yoshida K. Mouse study to estimate the time of mutation generation in radiation-induced clonal hematopoiesis. 64th Late A-bomb Effects Research Meeting. 2 June 2024, Nagasaki [RP1-23-3]

Mitsutake N, Uchimura A, Kawamura K, Mishima H, Suzuki K, Yoshiura K. Whole genome analysis of HPRT mutant clones in irradiated human normal cells. 64th Late A-bomb Effects Research Meeting. 2 June 2024, Nagasaki [No RP]

Nakamura N. Carcinogenic effect of radiation should be deterministic. 61st Radioisotope & Radiation research Workshop. 3-5 July 2024, Tokyo [RP1-75]

Kusunoki Y, Misumi M, Miura M, Yamaoka M, Nagamura H, Yoshida K. Radiation-induced clonal hamatopoiesis and inflammatory blood cell profiles in mice. 48th Annual Meeting of the Chugoku Area Radiation Research Society. 23 August 2024, Hiroshima [RP1-23-3]

Kobayashi G, Ito R, Taga M, Koyama K, Yano S, Endo T, Kai T, Yamamoto T, Hiratsuka T, Tsuruyama T. Indentification of HNRNPA2/B1 and STT3B as biomarkers for determining formalin duration in FFPE specimens. 48th Annual Meeting of the Chugoku Area Radiation Research Society. 23 August 2024, Hiroshima [No RP]

Kodama Y, Nakamura N, Nakano M, Ohtaki K, Hamasaki K, Noda A. Cytogenetic validation of DS02R1-estimated dose for atomic bomb survivors in Hiroshima and Nagasaki. 48th Annual Meeting of the Chugoku Area Radiation Research Society. 23 August 2024, Hiroshima [RP8-93]

Nakamura N, Yoshida N, Suwa T. Reasons why mutations are not induced by irradiation in mouse resting oocytes. 48th Annual Meeting of the Chugoku Area Radiation Research Society 23 August 2024, Hiroshima [RP1-07]

Toshishige M, Satoh Y, Higuchi M, Yagi T, Uchimura A. De novo germline mutations and their impacts on reproductive performance in mice. 48th Annual Meeting of the Chugoku Area Radiation Research Society 23 August 2024, Hiroshima [RP2-13]

Uchimura A. Research plan for parent-offspring trio whole-genome sequencing analysis including atomic bomb survivors. 48th Annual Meeting of the Chugoku Area Radiation Research Society. 23 August 2024, Hiroshima [RP3-23]

Nakamura N. If carcinogenic action of radiation is tissue reaction, where low dose studies go? 67th Annual Meeting of the Japan Radiation Research Society 25-28 September 2024, Kitakyushu [RP1-75]

Uchimura A, Satoh Y, Toshishige M, Matsuda Y, Tanabe O, Kusunoki Y, Yoshida K, Noda A. Elucidating radiation effects using whole genome sequencing. 67th Annual Meeting of the Japan Radiation Research Society. 25-28 September 2024, Kitakyushu [RP3-23]

Yoshida K, Uchimura A, Satoh Y, Nagamura H, Yamaoka M, Maki M, Miura M, Sugiyama K, Matsuda Y, Tanabe O, Misumi M, Noda A, Kusunoki Y. Trajectories of clonal hematopoiesis mutations and peripheral blood indicators following high-dose X-irradiation in mice. 67th Annual Meeting of the Japan Radiation Research Society 25-28 September 2024, Kitakyushu [RP1-23-3]

Kusunoki Y, Misumi M, Kyoizumi S, Matsuda Y, Uchimura A, Toshishige M, Satoh Y, Yoshida K. Analysis of hematopoietic progenitors in mice with radiation-induces clonal hematopoiesis. 86th Annual Meeting of the Japanese Society of Hematology 11-13 October 2024, Kyoto [RP1-23-3]

Nakamura N. Radiation exposure and transgenerational effect. 2024 Radiation Safety Handling Meeting. 17-18 October 2024, Nagano [RP1-75]

Satoh Y, Uchimura A. Characteristics of de novo structural variations in mouse germline. Reproductive Lifespan NextGen Scientists meeting. 3-5 November 2024, Shiga [RP2-13]

Uchimura A. Research on next generation effects of radiation expousure. Environmental Epigenomics Society 2024 Fall Net symposium. 9 November 2024, Online [RP3-23]

Uchimura A, Satoh Y, Noda A, Yoneya M, Tanaka S, Komura J, Toki H, Tsunoyama Y, Shimada Y, Gondo Y. Challenges in assessing transgenerational effects of low dose radiation exposure using whole genome sequencing. European Radiation Protection Week 2024. 11-15 November 2024, Rome, Italy [RP2-13, RP3-23]

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