

引用文献・資料等

第1章

1-1-1

- (1) Hoshi Y, Nomura T, Oda T, Iwasaki T, Fujita K, Ishikawa T, Kato A, Ikegami T, Sakai K, Tanooka H and Yamada T.: Application of a newly developed photoluminescence glass dosimeter for measuring the absorbed dose in individual mice exposed to low-dose rate ^{137}Cs γ -rays, J. Radiat. Res. 41, 129-137 (2000)
- (2) Shiragai A, Sato F, Kawashima N, Kobayashi S, Otsu H, Seki M and Maruyama T.: Absorbed dose estimates in a prolonged caesium-137 gamma irradiation facility for mice. J.Radiat.Res. 21, 118-125 (1980)
- (3) Shiragai A, Saito M, Kudo I, Kanaiwa-Kudo S, Matsumoto T, Furuse T, Yanai T, Ichinohe K, Sato F and Ohmomo Y.: Estimation of the absorbed dose to mice in prolonged irradiation by low-dose rate γ -rays from ^{137}Cs sources. RADIOISOTOPES 46, 904-911 (1997)
- (4) Turner JE.: Atoms, radiation, and radiation protection. John Wiley & Sons, Inc., New York (1995)
- (5) Barthe J, Blanc D, Commaney L, Teyssier JL and Francois H.: On the fluorescence decay of silver-activated glass dosimeters. Health Phys. 18, 573-575 (1970)
- (6) Piesch E, Burgkhardt B and Vilgis M.: Photoluminescence dosimetry: Progress and present state of art. Radiat. Protect. Dosimet. 33, 215-226 (1990)
- (7) Burgkhardt M, Vilgis M, Piesch E, Ishidoya T and Ikegami T.: Modern automatic readout system for phosphate glass dosimeters using UV laser excitation. Radiat. Protect. Dosimet. 34, 369-372 (1990)
- (8) Piesch E and Burgkhardt B.: Photoluminescence dosimetry: the alternative in personnel monitoring. Radioprotection 29, 39-67 (1994)

第2章

2-1-1

- (1) Tanooka H, Tanaka K and Arimoto H.: Dose response and growth rates of subcutaneous tumors induced with 3-methylcholanthrene in mice and timing of tumor origin. Cancer Res. 42, 4740-4743 (1982)
- (2) 酒井一夫, 岩崎利泰, 星 裕子, 野村崇治, 稲 恭宏, 山田 武, 田ノ岡 宏「マウスにおける低線量率長期照射の発がん抑制効果」電中研報告 G03007 (2003)
- (3) Sakai K, Hoshi Y, Nomura T, Oda T, Iwasaki T, Fijita K, Yamada T and Tanooka T.: Suppression of carcinogenic processes in mice by chronic low dose rate gamma-irradiation. Int.J.Low Radiat. 1, 142-146 (2003)
- (4) Yonezawa M, Misonoh J, Hosokawa Y.: Two types of

X-ray-induced radioresistance in mice: Presence of 4 dose ranges with distinct biological effects. Mutat.Res. 358, 237-243 (1996)

- (5) Kaplan HS and Brown MB.: A quantitative dose-response study of lymphoid-tumor development in irradiated C57 black mice. J.Natl.Cancer Inst. 13, 185-208 (1952)
- (6) Muto M, Sado T, Hayata I, Nagasawa F, Kamisaku H and Kubo E.: Reconfirmation of indirect induction of radiogenic lymphomas using thymectomized, irradiated B10 mice grafted with neonatal thymuses from Thy 1 congenic donors. Cancer Res, 43, 3822-3827 (1983)
- (7) 稲 恭宏, 野村崇治, 山田 武, 田ノ岡 宏, 酒井一夫「マウス放射線発がんの線量率依存性」電中研報告 G03005 (2003)

2-1-2

- (1) 野村崇治, 酒井一夫「型糖尿病モデルマウスの糖尿病発症および抗酸化物質に及ぼす線量率の効果」電中研報告 G03010 (2003)
- (2) 野村崇治, 山岡聖典, 森 秀治, 汪 達紘, 吉良尚平, 酒井一夫「低線量放射線が低カタラーゼマウスにおけるカタラーゼを含む抗酸化物質に及ぼす効果の検証」電中研報告 G03001 (2002)
- (3) 野村崇治, 酒井一夫「低線量の放射線照射による型糖尿病モデルマウスの糖尿病発症抑制効果の検証」電中研報告 G02001 (2002)
- (4) 野村崇治, 酒井一夫「発症機序の異なる2種類の型糖尿病モデルマウスに対する低線量率放射線の照射効果の検証」電中研報告 G03016 (2004)
- (5) Kuro-o M, Matsumura Y, Aizawa H, Kawaguchi H, Suga T, Utsugi T, Ohyama Y, Kurabayashi M, Kaname T, Kume E, Iwasaki H, Iida A, Shiraki-Iida T, Nishikawa S, Nagai R and Nabeshima YI.: Mutation of the mouse *klotho* gene leads to a syndrome resembling ageing. Nature 390, 45-51 (1997)
- (6) Yamashita T, Nifuji A, Furuya K, Nabeshima Y and Noda M.: Elongation of the epiphyseal trabecular bone in transgenic mice carrying a *klotho* gene locus mutation that leads to a syndrome resembling aging. J.Endocrinol. 159, 1-8 (1998)

2-1-3

- (1) Russell WL and Kelly EM.: Mutation frequency in male mice and the estimation of genetic hazards of radiation in men. Proc.Natl.Acad.Sci.USA 79, 542-544 (1982)
- (2) Kato F, Kakihara H, Kunugita N, Ootsuyama A and Norimura T.: Role of p53 gene in apoptotic repair of genotoxic tissue damage in mice. J Radiat.Res. 43, S209-S212 (2002)
- (3) Oliver CP.: The effect of varying the duration of X-ray treatment upon the frequency of mutation. Science 121, 44-46 (1930)
- (4) Sankaranarayanan K and Sobels FH.: Radiation genetics. in The genetics and biology of *Drosophila*,

- vol. 1c (M. Ashburner and E. Novitski eds.)
Academic Press, London (1976)
- (5) Koana T, Takashima Y, Okada MO, Ikehata M, Miyakoshi J and Sakai K.: A threshold exists in the dose-response relationship for somatic mutation frequency induced by X irradiation of *Drosophila*. *Radiat.Res.* 161, 391-396 (2004)
- (6) 小穴孝夫、岡田美紀江、酒井一夫「X線誘発ショウジョウバエ体細胞突然変異の線量・効果関係におけるしきい値の存在」電中研報告G03014 (2004)
- 2-1-4
- (1) Yonezawa M, Misonoh J, Hosokawa Y.: Two types of X-ray-induced radioresistance in mice: Presence of 4 dose ranges with distinct biological effects. *Mutat. Res.* 358, 237-243 (1996)
- (2) 大塚健介「個体における放射線適応応答の時間軸」放射線生物研究 40、405-412 (2005)
- 2-2-1
- (1) 野村崇治、酒井一夫「低線量の放射線照射による型糖尿病モデルマウスの糖尿病発症抑制効果の検証」電中研報告G02001 (2002)
- 2-2-2
- (1) Muller-Tegethoff K, Kersten B, Kasper P and Muller L.: Application of the in vitro rat hepatocyte micronucleus assay in genetic toxicology testing. *Mutat.Res.* 392, 125-38 (1997)
- (2) 酒井一夫、岩崎利泰「培養細胞における小核形成を指標とした放射線適応応答」電中研報告 G03009 (2003)
- 2-2-3
- (1) 山田武「アポトーシス - プログラムされた細胞の死」日経サイエンス 23 (6)、18-23 (1993)
- (2) Chen Z and Sakai K.: Enhancement of radiation-induced apoptosis by preirradiation with low-dose X-rays in human leukemia MOLT-4 cells. *J.Radiat.Res.* 45, 239-243 (2004)
- 2-2-4
- (1) Sakai K, Hoshi Y, Nomura T, Oda T, Iwasaki T, Fujita K, Yamada T and Tanooka T.: Suppression of carcinogenic processes in mice by chronic low dose rate gamma-irradiation. *Int.J.Low Radiat.* 1, 142-146 (2003)
- (2) 酒井一夫、岩崎利泰、星 裕子、野村崇治、稲 恭宏、山田 武、田ノ岡 宏「マウスにおける低線量率長期照射の発がん抑制効果」電中研報告 G 03007 (2003)
- (3) Hewitt HB and Wilson CW.: A survival curve for mammalian cells irradiated in vivo. *Nature* 11, 1060-106 (1959)
- (4) 星 裕子、酒井一夫「低線量率放射線による腫瘍細胞排除能の変動 - メチルコラントレン誘発皮下がんを用いて - 」電中研報告G03011 (2003)
- (5) 稲 恭宏、酒井一夫「低線量率放射線による生体防御・免疫機構活性化 細胞集団および細胞表面機能分子・活性化分子の解析」電中研報告G03003 (2003)
- 2-2-5
- (1) Schmidt-Ullrich RK, Dent P, Grant S, Mikkelsen RB, Valerie K.: Signal transduction and cellular radiation responses. *Radiat Res.* 153, 245-257 (2000)
- (2) Hosoi Y, Miyachi H, Matsumoto Y, Enomoto A, Nakagawa K, Suzuki N and Ono T.: Induction of interleukin-1beta and interleukin-6 mRNA by low doses of ionizing radiation in macrophages. *Int J Cancer.* 96, 270-276 (2001)
- (3) Yang Z, Bagheri-Yarmand R, Wang RA, Adam L, Papadimitrakopoulou VV, Clayman GL, El-Naggar A, Lotan R, Barnes CJ, Hong WK and Kumar R.: The epidermal growth factor receptor tyrosine kinase inhibitor ZD1839 (Iressa) suppresses c-Src and Pak1 pathways and invasiveness of human cancer cells. *Clin.Cancer Res.* 10, 658-667 (2004)
- 2-2-6
- 岩崎利泰、酒井一夫「低線量率放射線が遺伝子発現量の変動に与える影響」電中研報告 G 03013 (2004)
- 2-3-1
- (1) Shimizu Y, Kato H and Shull WJ.: Studies of the mortality of A-bomb survivors. 9. Mortality, 1950-1985: Part 2. Cancer mortality based on the recently revised doses (DS86) . *Radiat.Res.* 121, 120-141 (1990)
- (2) Pierce DA, Shimizu Y, Preston DL, Vaeth M and Mabuchi K.: Studies of the mortality of atomic bomb survivors. Report 12, Part I. Cancer: 1950-1990. *Radiat.Res.* 146, 1-27 (1996)
- (3) Mine M, Okumura Y, Ichimaru M, Nakamura T and Kondo S.: Apparently beneficial effect of low to intermediate doses of A-bomb radiation on human lifespan. *Int.J.Radiat.Biol.* 58, 1035-1043 (1990)
- (4) Preston DL, Kusumi S, Tomonaga M, Izumi S, Ron E, Kuramoto A, Kamada N, Dohy H, Matsuo T, Matsuo T, et al.: Cancer incidence in atomic bomb survivors. Part III. Leukemia, lymphoma and multiple myeloma, 1950-1987. *Radiat.Res.* 137, S68-S97 (1994)
- 2-3-2
- (1) Hayata I, Wang C, Zhang W, Chen D, Minamihisamatsu M, Morishima H, Yuan Y, Wei L and Sugahara T.: Chromosome translocation in residents of the high background radiation areas in southern China. *J Radiat.Res.* 41, S69-S74 (2000)
- コラム 2**
- (1) Kanao T, Miyachi Y, Yamada T.: Terrestrial isopods congregate under a low-level beta-emitter source. *J.Enviro Radioact.* 63, 199-205 (2002)
- (2) Kanao T, Okamoto T, Miyachi Y and Nohara N.: Parental exposure to low-dose X-rays in *Drosophila melanogaster* induces early emergence in offspring, which can be modulated by transplantation of polar cytoplasm. *Mutat.Res.* 527, 1-6 (2003)
- コラム 3**
- (1) Nagasawa H, Little JB.: Induction of sister chromatid exchanges by extremely low doses of alpha-particles. *Cancer Res.* 52, 6394-6396 (1992)