

## 生物学的線量評価に関する文献

### 1 マーシャル諸島ビキニ環礁での核実験等に関連した論文

Cytogenetic studies on fishermen exposed to fallout radiation in 1954 Ishihara T, Kumatori T, Jap J Genetics, 44: 242-251, 1969

Chromosome studies on Marshall Islanders exposed to fallout radiation. Lisco H. Conrad RA, Science, 157:445-7, 1967.

Effects of age and radiation exposure on chromosomes in Marshall Island population. Demise CF, Conrad RA, J Gerontol, 27:197-201, 1972.

Elevated chromosome translocation frequencies in New Zealand nuclear test veterans. Wahab MA, Nickless EM, Najjar-M'Kacher R, Parmentier C, Podd JV, Rowland RE, Cytogenet Genome Res 121:79-87, 2008.

### 2 歯エナメル質検査及び染色体検査に関する代表的な論文

#### (1) 歯エナメル質検査

Nakamura N, Miyazawa C, Sawada S, Akiyama M and Awa AA, A close correlation between electron spin resonance (ESR) dosimetry from tooth enamel and cytogenetic dosimetry from lymphocytes of Hiroshima atomic-bomb survivors, Int. J. Radiat Biol, 73:619-627, 1998

Nakamura N, Cullings HM, Kodama Y,

Wada T, Miyazawa C, Lee K and Awa AA, A Method to differentiate between the levels of ESR signals induced by sunlight and by ionizing radiation in teeth from atomic bomb survivors, Rad Res, 165: 359-364, 2006.

中村典, 歯エナメル質を用いた電子スピン共鳴法による原爆被爆者の個人線量評価, 電子スピンサイエンス, 5:106-113, 2007

Romanyukha AA, Degteva MO, Kozheurov VP, Wieser A, Jacob P, Ignatiev EA and Vorobiova MI, Pilot study of the Urals population by tooth electron paramagnetic resonance dosimetry, Radiat Environ Biophys, 35:305-310, 1996.

Wieser A, Romanyukha AA, Degteva MO, Kozheurov VP and Petzoldt G, Tooth enamel as a natural beta dosimeter for bone seeking radionuclides, Radiation Protection Dosimetry, 65:413-416, 1996.

Romanyukha AA, Mitch MG, Lin Z, Nagy V and Coursey BM, Mapping the distribution of <sup>90</sup>Sr in teeth with a photostimulable phosphor imaging detector, 157:341-349, 2002.

#### (2) 染色体検査

International Atomic Energy Agency (IAEA), Cytogenetic dosimetry: Applications in preparedness for and

response to radiation emergencies, 2011.

<http://www-pub.iaea.org/MTCDD/Publications/PDF/EPR-Biodosimetry%20201>

Sigurdson AJ, Ha M, Hauptmann M, Bhatti P, Sram RJ, Beskid O, Tawn EJ, Whitehouse CA, Lindholm C, Nakano M, Kodama Y, Nakamura N, Vorobtsova I, Oestreicher U, Stephan G, Yong LC, Bauchinger M, Schmid E, Chung HW, Darroudi F, Roy L, Voisin P, Barquinero JF, Livingston G, Blakey D, Hayata I, Zhang W, Wang C, Bennett LM, Littlefield LG, Edwards AA, Kleinerman RA, Tucker JD, International study of factors affecting human chromosome translocations. *Mutat Res*, 652:112-21, 2008.

Burak LE, Kodama Y, Nakano M, K. Ohtaki K, Itoh M, Okladnikova ND, E. K. Vasilenko EK, Cologne JB and Nakamura N, FISH examination of lymphocytes from Mayak workers for assessment of translocation induction rate under chronic radiation exposures, *Int J Radiat Biol*, 77:901-908, 2001.

児玉喜明，中村 典，生物学的線量推定，A 染色体異常，p62-70，原爆放射線の人体影響 第2版，放射線被曝者医療国際協力推進協議会，文光堂，2012