

ヒ素遺伝毒性試験文献一覧

無機及び有機ヒ素(ヒトin vivo以外)の遺伝毒性試験:1~88

番号	文献名
1	Amacher DE, Paillet SC. Induction of trifluorothymidine-resistant mutants by metal ions in L5178Y/TK ^{*/-} -cells. Mutat. Res. 1980; 78: 279-288.
2	Barrett JC, Lamb PW, Wang TC, Lee TC. Mechanisms of Arsenic-Induced Cell Transformation. Biological Trace Research. 1989; 21: 421-429.
3	Beckman L, Nordenson I. Interaction between some common genotoxic agents. Hum Hered. 1986; 36: 397-401.
4	Biswas, S., Talukder, G. & Sharma, A. Prevention of cytotoxic effects of arsenic by shortterm dietary supplementation with selenium in mice in vivo. Mutat. Res. 1999; 441: 155-160.
5	Das T, Roychoudhury A, Sharma A, et al. Modification of clastogenicity of three known clastogens by garlic extract in mice in vivo. Environ Mol Mutagen. 1993; 21(4): 383-388.
6	Deknudt, G., Léonard, A., Arany, J., Jenar-Du Buisson, G. & Delavignette, E. In vivo studies in male mice on the mutagenic effects of inorganic arsenic. Mutagenesis. 1986; 1: 33-34.
7	DiPaolo JA, Casto BC. Quantitative studies of in vitro morphological transformation of Syrian hamster cells by inorganic metal salts. Cancer Res. 1979; 39: 1008-1013.
8	Dong JT, Luo XM. Arsenic-induced DNA-strand breaks associated with DNA-protein crosslinks in human fetal lung fibroblasts. Mutat. Res. 1993; 302(2): 97-102.
9	Dong JT, Luo XM. Effects of arsenic on DNA damage and repair in human fetal lung fibroblasts. Mutat. Res. 1994; 315(1): 11-15.
10	Eastmond, D.A. & Tucker, J.D. Identification of aneuploidy-inducing agents using cytokinesis-blocked human lymphocytes and an antikinetochore antibody. Environ. mol. Mutag. 1989; 13: 34-43.
11	Eguchi N, Kuroda K, Endo G. Metabolites of arsenic induced tetraploids and mitotic arrest in cultured cells. Arch Environ Contam Toxicol. 1997; 32(2): 141-145.
12	Endo G, Kuroda K, Okamoto A, et al. Dimethylarsenic acid induces tetraploids in Chinese hamster cells. Bull Environ Contam Toxicol. 1992; 48(1): 131-137.
13	Fan S, Ho I, Yeoh FL, et al. Squalene inhibits sodium arsenite-induced sister chromatid exchanges and micronuclei in Chinese hamster ovary-K1 cells. Mutat. Res. 1996; 368(3-4): 165-169.
14	Gebel, T. Suppression of arsenic-induced chromosome mutagenicity by antimony. Mutat. Res. 1998; 412: 213-218.

15	Gibson DP, Brauninger R, Shaffi HS, et al. Induction of micronuclei in Syrian hamster embryo cells: Comparison of results in the SHE cell transformation assay for national toxicology program test chemicals. <i>Mutat. Res.</i> 1997; 392(1-2): 61-70.
16	Hartmann A, Speit G. Comparative investigations of the genotoxic effects of metals in the single cell gel (SCG) assay and the sister chromatid exchange (SCE) test. <i>Environ Mole Mutagen.</i> 1994; 23(4): 299-305.
17	Hei TK, Liu SX, Waldren C. Mutagenicity of arsenic in mammalian cells: Role of reactive oxygen species. <i>Proc Natl Acad Sci U S A.</i> 1998; 95: 8103-8107.
18	Huang SC, Lee TC. Arsenite inhibits mitotic division and perturbs spindle dynamics in HeLa S3 cells. <i>Carcinogenesis.</i> 1998; 19: 889-896.
19	Huang H, Huang CF, Wu DR, et al. Glutathione as a cellular defense against arsenite toxicity in cultured Chinese hamster ovary cells. <i>Toxicology.</i> 1993; 79(3): 195-204.
20	Jha AN, Noditi M, Nilsson R, et al. Genotoxic effects of sodium arsenite on human cells. <i>Mutat. Res.</i> 1992; 284(2): 215-221.
21	Kashiwada E, Kuroda K, Endo G. Aneuploidy induced by dimethylarsinic acid in mouse bone marrow cells. <i>Mutat. Res.</i> 1998; 413:33-38.
22	Kato K, Hayashi H, Hasegawa A, et al. DNA damage induced in cultured human alveolar (L-132) cells by exposure to dimethylarsinic acid. <i>Environ Health Perspect.</i> 1994; 102(Suppl 3): 285-288.
23	Kawaguchi K, Oku N, Rin K, et al. Dimethylarsenics reveal DNA damage induced by superoxide anion radicals. <i>Biol Pharm Bull.</i> 1996; 19(4): 551-553.
24	Kerckaert GA, Brauninger R, LeBoeuf RA, et al. Use of the Syrian hamster embryo cell transformation assay for carcinogenicity prediction of chemicals currently being tested by the national toxicology program in rodent bioassays. <i>Environ Health Perspect.</i> 1996; 104(Suppl. 5): 1075-1084.
25	Klein CB, Leszczynska J, Rossman TG. Further evidence against a non-genotoxic MOA for arsenicinduced skin cancer <i>Toxicol Appl Pharmacol.</i> 2007; 222: 289-297.
26	Kligerman AD, Tennant AH. Insights into the carcinogenic mode of action of arsenic. <i>Toxicol Appl Pharmacol.</i> 2007; 222(3): 281-288.
27	Kligerman AD, Doerr CL, Tennant AH et al. Methylated trivalent arsenicals as candidate ultimate genotoxic forms of arsenic: induction of chromosomal mutations but not gene mutations. <i>Environ Mol Mutagen.</i> 2003; 42: 192-205.
28	Kochhar TS, Howard W, Hoffman S, et al. Effect of trivalent and pentavalent arsenic in causing chromosome alterations in cultured Chinese hamster ovary (CHO) cells. <i>Toxicol Lett.</i> 1996; 84(1): 37-42.
29	Lantzsch, H. & Gebel, T. Genotoxicity of selected metal compounds in the SOS chromotest. <i>Mutat. Res.</i> 1997; 389: 191-197.

30	Lee TC, Oshimura M, Barrett JC. Comparison of arsenic-induced cell transformation, cytotoxicity, mutation and cytogenetic effects in Syrian hamster embryo cells in culture. <i>Carcinogenesis</i> . 1985a Oct; 6(10): 1421-1426.
31	Lee TC, Huang RY, Jan KY. Sodium arsenite enhances the cytotoxicity, clastogenicity, and 6-thioguanine-resistant mutagenicity of ultraviolet light in Chinese hamster ovary cells. <i>Mutat. Res.</i> 1985b; 148:83-89.
32	Lin JK, Tseng SF. Chromosomal aberrations and sister-chromatid exchanges induced by N-nitroso-2-acetylaminofluorene and their modifications by arsenite and selenite in Chinese hamster ovary cells. <i>Mutat. Res.</i> 1992; 265: 203-210.
33	Liu Yee-Chien and Huang Haimei. Lowering extracellular calcium content protects cells from arsenite-induced killing and micronuclei formation. <i>Mutagenesis</i> . 1996; 11(1): 75-78.
34	Liu YC, Huang H. Involvement of calcium-dependent protein kinase C in arsenite-induced genotoxicity in Chinese hamster ovary cells. <i>J Cell Biochem</i> 1997; 64(3): 423-433.
35	Liu F. and Jan KY. DNA damage in arsenite - and cadmium-treated bovine aortic endothelial cells. <i>Free Radical Biology & Medicine</i> . 2000; 28(1): 55-63.
36	Löfroth G, Ames BN. Mutagenicity of inorganic compounds in <i>Salmonella typhimurium</i> : arsenic, chromium, and selenium. <i>Mutat. Res.</i> 1978; 53: 65-66.
37	Lynn S, Lai HT, Gurr JR, et al. Arsenite retards DNA break rejoining by inhibiting DNA ligation. <i>Mutagenesis</i> . 1997; 12(5): 353-358.
38	Lynn S, Shiung JN, Gurr JR, Jan KY. Arsenite stimulates poly (ADP-ribosylation) by generation of nitric oxide. <i>Free Radic. Biol. Med.</i> 1998; 24: 442-449.
39	Lynn S, Gurr JR, Lai HT, Jan KY. NADH oxidase activation is involved in arsenite-induced oxidative DNA damage in human vascular smooth muscle cells. <i>Circ. Res.</i> 2000; 86: 514-519.
40	Mass, M.J., Tennant, A., Roop, B.C., Cullen, W.R., Styblo, M., Thomas, D.J. & Kligerman, A.D. Methylated trivalent arsenic species are genotoxic. <i>Chem. Res. Toxicol.</i> 2001; 14: 355-361.
41	Matthews EJ, Spalding JW, Tennant RW. Transformation of BALB/c-3T3 cells: V. Transformation responses of 168 chemicals compared with mutagenicity in <i>Salmonella</i> and carcinogenicity in rodent bioassays. <i>Environ Health Perspect</i> . 1993; 101(Suppl 2): 347-482.
42	Meng Z, Hsie AW. Polymerase chain reaction-based deletion analysis of spontaneous and arsenite-enhanced gpt mutants in CHO-As52 cells. <i>Mutat. Res.</i> 1996; 356(2): 255-259.
43	Moore MM, Harrington-Brock K, Doerr CL. Relative genotoxic potency of arsenic and its methylated metabolites. <i>Mutat. Res.</i> 1997; 386(3): 279-290.

44	Mure K, Uddin AN, Lopez LC, Styblo M, Rossman TG. Arsenite induces delayed mutagenesis and transformation in human osteosarcoma cells at extremely low concentrations. <i>Environmental and Molecular Mutagenesis</i> . 2003; 41(5): 322-331.
45	Nagymajtenyi L, Selypes A, Berencsi G. Chromosomal aberrations and fetotoxic effects of atmospheric arsenic exposure in mice. <i>J. Appl. Toxicol.</i> 1985; 5: 61-63.
46	Nakamuro K, Sayato Y. Comparative studies of chromosomal aberration induced by trivalent and pentavalent arsenic. <i>Mutat. Res.</i> 1981; 88: 73-80.
47	Nishioka H. Mutagenic activities of metal compounds in bacteria. <i>Mutat. Res.</i> 1975; 31:185-198.
48	Noda Y, Suzuki T, Kohara A, Hasegawa A, Yotsuyanagi T, Hayashi M, Sofuni T, Yamanaka K, Okada S. In vivo genotoxicity evaluation of dimethylarsinic acid in MutaMouse. <i>Mutat. Res.</i> 2002; 513(1-2): 205-212.
49	Nordenson I, Sweins A, Beckman L. Chromosome aberrations in cultured human lymphocytes exposed to trivalent and pentavalent arsenic. <i>Scand J Work Environ Health</i> . 1981; 7: 277-281.
50	NTP. National Toxicology Program - technical report series no. 345. Toxicology and carcinogenesis studies of roxarsone (CAS No. 121-19-7) in F344/N rats and B6C3F1 mice (feed studies). Research Triangle Park, NC: U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health. NTP-TR-345. NIH pub no. 89-2800. 1989b.
51	Oberly TJ, Hoffman WP, Garriott ML. An evaluation of the twofold rule for assessing a positive response in the L5178Y TK*/-mouse lymphoma assay. <i>Mutat. Res.</i> 1996; 369(3-4): 221-232.
52	Ochi T, Suzuki T, Barrett JC, Tsutsui T. A trivalent dimethylarsenic compound, dimethylarsine iodide, induces cellular transformation, aneuploidy, centrosome abnormality and multipolar spindle formation in Syrian hamster embryo cells. <i>Toxicology</i> . 2004; 203: 155-163.
53	Oya-Ohta Y, Kaise T, Ochi T. Induction of chromosomal aberrations in cultured human fibroblasts by inorganic and organic arsenic compounds and the different roles of glutathione in such induction. <i>Mutat. Res.</i> 1996 Oct 25; 357(1-2): 123-129. (A1S0379)
54	Petres J, Baron D, and Hagedorn M. Effects of Arsenic Cell Metabolism and Cell Proliferation: Cytogenetic and Biochemical Studies. <i>Environmental Health Perspectives</i> . 1977; 19: 223-227. (122と同じ)
55	Poddar S, P. Mukherjee, G. Talukder, A. Sharma. Dietary protection by iron against clastogenic effects of short-term exposure to arsenic in mice in vivo. <i>Fd. Chem. Toxicol.</i> 2000; 38: 735-737.
56	Poma K, Degraeve N, Kirsch-Volders M, et al. Cytogenetic analysis of bone marrow cells and spermatogonia of male mice after in vivo treatment with arsenic. <i>Experientia</i> . 1981; 37: 129-130.
57	Poma K, Degraeve N, Susanne C. Cytogenetic effects in mice after chronic exposure to arsenic followed by a single dose of ethylmethane sulfonate. <i>Cytologia</i> . 1987; 52: 445-449.

58	Ramírez P, Eastmond DA, Laclette JP, Ostrosky-Wegman P. Disruption of microtubule assembly and spindle formation as a mechanism for the induction of aneuploid cells by sodium arsenite and vanadium pentoxide. <i>Mutat. Res.</i> 1997 Jun; 386(3): 291-298.
59	Rasmussen RE, Menzel DB. Variation in arsenic-induced sister chromatid exchange in human lymphocytes and lymphoblastoid cell lines. <i>Mutat. Res.</i> 1997 Jun; 386(3): 299-306.
60	Rin K, Kawaguchi K, Yamanaka K, et al. DNA-strand breaks induced by dimethylarsinic acid, a metabolite of inorganic arsenics, are strongly enhanced by superoxide anion radicals. <i>Biol Pharm Bull.</i> 1995; 18(1): 45-48.
61	Rossman TG, Stone D, Molina M, Troll W. Absence of arsenite mutagenicity in <i>E coli</i> and Chinese hamster cells. <i>Environ Mutagen.</i> 1980; 2(3): 371-379.
62	Rossman TG, Molina M, Meyer LW. The genetic toxicology of metal compounds: I. Induction of lambda prophage in <i>E coli</i> WP2s(lambda). <i>Environ Mutagen.</i> 1984; 6(1): 59-69.
63	Roy Choudhury, A., Das, T., Sharma, A. & Talukder, G. Dietary garlic extract in modifying clastogenic effects of inorganic arsenic in mice: Two-generation studies. <i>Mutat. Res.</i> 1996; 359: 165-170.
64	Rupa DS, Schuler M, Eastmond DA. Detection of hyperdiploidy and breakage affecting the 1cen1q12 region of cultured interphase human lymphocytes treated with various genotoxic agents. <i>Environ Mol Mutagen.</i> 1997; 29(2): 161-167.
65	Sabbioni E, M.Fischbach, G.Pozzi, R.Pietra, M.Gallorini, J.L.Piette. Cellular retention, toxicity and carcinogenic potential of seafood arsenic. I. Lack of cytotoxicity and transforming activity of arsenobetaine in the BALB/3T3 cell line. <i>Carcinogenesis.</i> 1991; 12(7): 1287-1291.
66	Saleha Banu B, Danadevi K, Jamil K, Ahuja YR, Visweswara Rao K, Ishaq M. In vivo genotoxic effect of arsenic trioxide in mice using comet assay. <i>Toxicology.</i> 2001 May 21; 162(3): 171-177.
67	Schaumloffel N, Gebel T. Heterogeneity of the DNA damage provoked by antimony and arsenic. <i>Mutagenesis.</i> 1998; 13: 281-286.
68	Singh I. Induction of reverse mutation and mitotic gene conversion by some metal compounds in <i>Saccharomyces cerevisiae</i> . <i>Mutat. Res.</i> 1983; 117: 149-152.
(88)	Storer RD, McKelvey TW, Kraynak AR, Elia MC, Barnum JE, Harmon LS, Nichols WW, DeLuca JG. Revalidation of the in vitro alkaline elution/rat hepatocyte assay for DNA damage: improved criteria for assessment of cytotoxicity and genotoxicity and results for 81 compounds. <i>Mutat. Res.</i> 1996 Jun 12; 368(2): 59-101.
69	Sweins A. Protective effect of selenium against arsenic-induced chromosomal damage in cultured human lymphocytes. <i>Hereditas.</i> 1983; 98: 249-252.

70	Tezuka M, Hanioka K, Yamanaka K, et al. Gene damage induced in human alveolar type II (L132) cells by exposure to dimethylarsinic acid. <i>Biochem Biophys Res Commun.</i> 1993; 191(3): 1178-1183.
71	Tice, R.R., Yager, J.W., Andrews, P. & Crecelius, E. Effect of hepatic methyl donor status on urinary excretion and DNA damage in B6C3F1 mice treated with sodium arsenite. <i>Mutat. Res.</i> 1997; 386: 315-334.
72	Tinwell H, Stephens SC, Ashby J. Arsenite as the probable active species in the human carcinogenicity of arsenic: mouse micronucleus assays on Na and K arsenite, orpiment, and Fowler's solution. <i>Environ Health Perspect.</i> 1991 Nov; 95: 205-210. (A1S0394)
73	Vega L, M.E. Gonsebatt, P. Ostrosky-Wegman. Aneugenic effects of sodium arsenite on human lymphocytes in vitro: an individual susceptibility effect detected. <i>Mutat. Res.</i> 1995; 334: 365-373.
74	Wan B, Christian RT, Soukup SW. Studies of cytogenetic effects of sodium arsenicals on mammalian cells in vitro. <i>Environ Mutagen.</i> 1982; 4: 493-498.
75	Wang TS, H. Huang. Active oxygen species are involved in the induction of micronuclei by arsenite in XRS-5 cells. <i>Mutagenesis.</i> 1994; 9: 253-257.
76	Wang, T.S., Shu, Y.F., Liu, Y.C., Jan, K.Y. & Huang, H. Glutathione peroxidase and catalase modulate the genotoxicity of arsenite. <i>Toxicology.</i> 1997; 121: 229-237.
77	Wang TS, Chung CU, Wang ASS, Bau DT, Samikkannu T, Jan KY, Cheng YM, Lee TC. Endonuclease III, formamidopyrimidine-DNA glycosylase, and proteinase K additively enhance arsenic-induced DNA strand breaks in human cells. <i>Chemical Research in Toxicology.</i> 2002; 15(10): 1254-1258.
78	Yamanaka K, Okada S. Induction of lung-specific DNA damage by metabolically methylated arsenics via the production of free radicals. <i>Environ Health Perspect.</i> 1994; 102(Suppl3): 37-40.
79	Yamanaka, K., Hasegawa, A., Sawamura, R. & Okada, S. Dimethylated arsenics induce DNA strand breaks in lung via the production of active oxygen in mice. <i>Biochem. biophys. Res. Commun.</i> 1989; 165: 43-50.
80	Yamanaka K, Ohba H, Hasegawa A, et al. Mutagenicity of dimethylated metabolites of inorganic arsenics. <i>Chem Pharm Bull.</i> 1989b; 37(10): 2753-2756.
81	Yamanaka K, M. Hoshino, M. Okamoto, R. Sawamura, A. Hasegawa, S. Okada. Induction of DNA damage by dimethylarsine a metabolite of peroxy radical. <i>Biochem. Biophys. Res. Commun.</i> 1990; 168: 58-64.
82	Yamanaka K, Tezuka M, Kato K, et al. Crosslink formation between DNA and nuclear proteins by in vivo and in vitro exposure of cells to dimethylarsinic acid. <i>Biochem Biophys Res. Commun.</i> 1993; 191(3): 1184-1191.

83	Yamanaka K, H. Hayashi, K. Kato, A. Hasegawa, S. Okada. Involvement of preferential formation of apurinic/apyrimidinic sites in dimethylarsenic induced DNA strand breaks and DNA protein crosslinks in cultured alveolar epithelial cells. <i>Biophys. Res. Commun.</i> 1995; 207: 244-249.
84	Yamanaka K, H. Hayashi, M. Tachikawa, K. Kato, A. Hasegawa, N. Oku, S. Okada. Metabolic methylation is a possible genotoxicity-enhancing process of inorganic arsenics. <i>Mutat. Res.</i> 1997; 394: 95-101.
85	Yang JL, Chen MF, Wu CW, et al. Posttreatment with sodium arsenite alters the mutational spectrum induced by ultraviolet light irradiation in Chinese hamster ovary cells. <i>Environ Mol Mutagen.</i> 1992; 20(3): 156-164.
86	Yih LH, Lee TC. Effects of exposure protocols on induction of kinetochore-plus and-minus micronuclei by arsenite in diploid human fibroblasts. <i>Mutat. Res.</i> 1999; 440: 75-82.
87	Yih LH, Ho IC, Lee TC. Sodium arsenite disturbs mitosis and induces chromosome loss in human fibroblasts. <i>Cancer Res.</i> 1997; 57(22): 5051-5059.
88	Storer RD, McKelvey TW, Kraynak AR, Elia MC, Barnum JE, Harmon LS, Nichols WW, DeLuca JG. Revalidation of the in vitro alkaline elution/rat hepatocyte assay for DNA damage: improved criteria for assessment of cytotoxicity and genotoxicity and results for 81 compounds. <i>Mutat. Res.</i> 1996 Jun 12; 368(2): 59-101.

ヒ素(ヒト in vivo)の遺伝毒性試験:101~125

101	Basu, A., Mahata, J., Roy, A.K., Sarkar, J.N., Poddar, G., Nandy, A.K., Sarkar, P.K., Dutta, P.K., Banerjee, A., Das, M., Ray, K., Roychaudhury, S., Natarajan, A.T., Nilsson, R. & Giri, A.K. Enhanced frequency of micronuclei in individuals exposed to arsenic through drinking water in West Bengal, India. <i>Mutat. Res.</i> 2002; 516: 29-40.
102	Basu A, Ghosh P, Das JK, et al. Micronuclei as biomarkers of carcinogen exposure in populations exposed to arsenic through drinking water in West Bengal, India: A comparative study in three cell types. <i>Cancer Epidemiol Biomarkers Prev.</i> 2004; 13(5): 820-827.
103	Beckman G, Beckman L, Nordenson I. Chromosome aberrations in workers exposed to arsenic. <i>Environ Health Perspect.</i> 1977 Aug; 19: 145-146. (A1S0256)
104	Biggs, M.L., Kalman, D.A., Moore, L.E., Hopenhayn-Rich, C., Smith, M.T. & Smith, A.H. Relationship of urinary arsenic to intake estimates and a biomarker of effect, bladder cell micronuclei. <i>Mutat. Res.</i> 1997; 386: 185-195.
105	Chakraborty T, Das U, Poddar S, Sengupta B, De M: A study in an arsenic exposed population in West Bengal, India. <i>Bull Environ Contam Toxicol.</i> 2006; 76: 970-976.

106	Ghosh P, Basu A, Mahata J, et al. Cytogenic damage and genetic variants in the individuals susceptible to arsenic-induced cancer through drinking water. <i>Int J Cancer.</i> 2006; 118(10): 2470-2478.
107	Gonsebatt ME, Vega L, Salazar AM, et al. Cytogenetic effects in human exposure to arsenic. <i>Mutat. Res.</i> 1997; 386(3): 219-228.
108	Harrington-Brock, K., Cabrera, M., Collard, D.D., Doerr, C.L., McConnell, R., Moore, M.M., Sandoval, H. & Fuscoe, J.C. Effects of arsenic exposure on the frequency of HPRTmutant lymphocytes in a population of copper roasters in Antofagasta, Chile: A pilot study. <i>Mutat. Res.</i> 1999; 431: 247-257.
109	Hsu YH, Li SY, Chiou HY, et al. Spontaneous and induced sister chromatid exchanges and delayed cell proliferation in peripheral lymphocytes of Bowen's disease patients and matched controls of arseniasis-hyperendemic villages in Taiwan. <i>Mutat. Res.</i> 1997; 386(3): 241-251.
110	Hsu CH, Yang SA, Wang JY, et al. Mutational spectrum of p53 gene in arsenic-related skin cancers from the blackfoot disease endemic area of Taiwan. <i>Br J Cancer.</i> 1999; 80(7): 1080-1086.
111	Lerda, D5. Sister-chromatid exchange (SCE) among individuals chronically exposed to arsenic in drinking water. <i>Mutat. Res.</i> 1994; 312: 111-120.
112	Liou SH, Lung JC, Chen YH, Yang T, Hsieh LL, Chen CJ, Wu TN. Increased chromosome-type chromosome aberration frequencies as biomarkers of cancer risk in a blackfoot endemic area. <i>Cancer Res.</i> 1999; 59: 1481-1484.
113	Mahata J, Basu A, Ghosal S, et al. Chromosomal aberrations and sister chromatid exchanges in individuals exposed to arsenic through drinking water in West Bengal, India. <i>Mutat. Res.</i> 2003; 534(1-2): 133-143.
114	Mäki-Paakkanen, J., Kurttio, P., Paldy, A. & Pekkanen, J. Association between the clastogenic effect in peripheral lymphocytes and human exposure to arsenic through drinking water. <i>Environ. mol. Mutag.</i> 1998; 32: 301-313.
115	Martinez V, Creus A, Venegas W, Arroyo A, Beck JP, Gebel TW, Surralles J, Marcos R: Evaluation of micronucleus induction in a Chilean population environmentally exposed to arsenic. <i>Mutat. Res.</i> 2004; 564: 65-74.
116	Martinez V, Creus A, Venegas W, Arroyo A, Beck JP, Gebel TW, Surralles J, Marcos R: Micronuclei assessment in buccal cells of people environmentally exposed to arsenic in northern Chile. <i>Toxicol Lett.</i> 2005; 155: 319-327.
117	Moore LE, Warner ML, Smith AH, Kalman D, Smith MT. Use of the fluorescent micronucleus assay to detect the genotoxic effects of radiation and arsenic exposure in exfoliated human epithelial cells. <i>Environ Mol Mutagen.</i> 1996; 27(3): 176-84.

118	Moore, L.E., Smith, A.H., Hopenhayn-Rich, C., Biggs, M.L., Kalman, D.A. & Smith, M.T. Micronuclei in exfoliate bladder cells among individuals chronically exposed to arsenic in drinking water. <i>Cancer Epidemiol Biomarkers Prev.</i> 1997a; 6: 31-36.
119	Moore LE, Smith AH, Hopenhayn-Rich C, Biggs ML, Kalman DA, Smith MT. Decrease in bladder cell micronucleus prevalence after intervention to lower the concentration of arsenic in drinking water. <i>Cancer Epidemiol Biomarkers Prev.</i> 1997b; 6: 1051-1056.
120	Nordenson I, Beckman G, Beckman L, et al. Occupational and environmental risks in and around a smelter in northern Sweden: II. Chromosomal aberrations in workers exposed to arsenic. <i>Hereditas.</i> 1978; 88: 47-50.
121	Ostrosky-Wegman, P., Gonsebatt, M.E., Montero, R., Vega, L., Barba, H., Espinosa, J., Palao, A., Cortinas, C., García-Vargas, G., Del Razo, L.M. & Cebrián, M. Lymphocyte proliferation kinetics and genotoxic findings in a pilot study on individuals chronically exposed to arsenic in Mexico. <i>Mutat. Res.</i> 1991; 250: 477-482.
122	Petres J, Baron D, and Hagedorn M. Effects of Arsenic Cell Metabolism and Cell Proliferation: Cytogenetic and Biochemical Studies. <i>Environmental Health Perspectives.</i> 1977; 19: 223-227. (54と同じ)
123	Tian D, Ma H, Feng Z, Xia Y, Le XC, Ni Z, Allen J, Collins B, Schreinemachers D, Mumford JL. Analyses of micronuclei in exfoliated epithelial cells from individuals chronically exposed to arsenic via drinking water in inner Mongolia, China. <i>J Toxicol Environ Health A.</i> 2001 Nov 23; 64(6): 473-84.
124	Vuyyuri SB, Ishaq MKuppala D, Grover P, et al. Evaluation of micronucleus frequencies and DNA damage in glass workers exposed to arsenic. <i>Environ Mol Mutagen.</i> 2006; 47: 562-570.
125	Warner ML, Moore LE, Smith MT, Kalman DA, Fanning E, Smith AH. Increased micronuclei in exfoliated bladder cells of individuals who chronically ingest arsenic-contaminated water in Nevada. <i>Cancer Epidemiol Biomarkers Prev.</i> 1994; 3: 583-590.

ヒ素遺伝毒性の Review 等: 201~205

201	Basu A, Mahata J, Gupta S, Giri AK. Genetic toxicology of a paradoxical human carcinogen, arsenic: a review. <i>Mutat Res. Review.</i> 2001 May; 488(2): 171-194.
202	Ghosh P, Basu A, Singh KK, Giri AK. Evaluation of cell types for assessment of cytogenetic damage in arsenic exposed population. <i>Mol Cancer.</i> 2008 May 28; 7: 45.
203	Hughes MF, Beck BD, Chen Y, Lewis AS, Thomas DJ. Arsenic exposure and toxicology: A historical perspective. Hughes MF, Beck BD, Chen Y, Lewis AS, Thomas DJ. Arsenic exposure and toxicology: a historical perspective. <i>Toxicol Sci.</i> 2011 Oct; 123(2): 305-332.

204	Jomova K, Jenisova Z, Feszterova M, Baros S, Liska J, Hudecova D, Rhodes CJ, Valko M. Arsenic: toxicity, oxidative stress and human disease. <i>J Appl Toxicol.</i> 2011 Mar; 31(2): 95-107.
205	Rossman TG, Klein CB. Genetic and epigenetic effects of environmental arsenicals. <i>Metallomics.</i> 2011 Nov; 3(11): 1135-1141.