

Publication

- 148). T. Iwamoto, P.J. Brooks, T. Nishiwaki, K. Nishimura, N. Kobayashi, S. Sugiura and T. Mori. Quantitative and *in situ* detection of oxidatively generated DNA damage 8,5'-cyclo-2'-deoxyadenosine using an immunoassay with a novel monoclonal antibody. **Photochem. Photobiol.**, 90 (2014) 829-836.
- 147). A. Schäfer, S. Schubert, A. Gratchev, C. Seebode, A. Apel, P. Laspe, L. Hofmann, A. Ohlenbusch, T. Mori, N. Kobayashi, A. Schürer, M.P. Schön, S. Emmert. Characterization of three XPG-defective patients identifies three missense mutations that impair repair and transcription. **J. Invest. Dermatol.**, 133 (2013) 1841-1849.
- 146). S. Somekawa, K. Imagawa, H. Hayashi, M. Sakabe, T. Ioka, G.E. Sato, K. Inada, T. Iwamoto, T. Mori, S. Uemura, O. Nakagawa, and Y. Saito. Tmem100, an ALK1 signaling-dependent gene essential for arterial endothelium differentiation and vascular morphogenesis. **Proc. Natl. Acad. Sci. USA**, 109 (2012) 12064-12069.
- 145). J.M. O'Dowd, A.G. Zavala, C. Brown, T. Mori, and E.A. Fortunato. HCMV-infected cells maintain efficient nucleotide excision repair of the viral genome while abrogating repair of the host genome. **PLOS Pathogens**, 8 (2012) e1003038.
- 144). M. Iwano, Y. Yamaguchi, T. Iwamoto, K. Nakatani, M. Matsui, A. Kubo, Y. Akai, T. Mori, and Y. Saito. Urinary FSP1 is a biomarker of crescentic GN. **J. Am. Soc. Nephrol.** 23 (2012) 209-214.
- 143). S. Tsukamoto, K. Honoki, H. Fujii, Y. Tohma, A. Kido, T. Mori, T. Tsujiuchi, and Y. Tanaka. Mesenchymal stem cells promote tumor engraftment and metastatic colonization in rat osteosarcoma model. **Int. J. Oncol.** 40 (2012) 163-169.
- 142). K. Honoki, H. Fujii, Y. Tohma, T. Tsujiuchi, A. Kido, S. Tsukamoto, T. Mori, and Y. Tanaka. Comparison of gene expression profiling in sarcomas and mesenchymal stem cells identifies tumorigenic pathways in chemically induced rat sarcoma model. **ISRN Oncol.** 2012 (2012) 909453.
- 141). J.-I. Komura, H. Ikehata, T. Mori, and T. Ono. Fully functional global genome repair of (6-4) photoproducts and compromised transcription-coupled repair of cyclobutane pyrimidine dimers in condensed mitotic chromatin. **Exp. Cell Res.**, 318 (2012) 623-631.
- 140). 森俊雄, 岩本顕聡, DNA 損傷特異的モノクローナル抗体, 放射線生物研究. 47 (2012) 112-125.
- 139). H. Yanagihara, J. Kobayashi, S. Tateishi, A. Kato, S. Matsuura, H. Tauchi, K. Yamada, J. Takezawa, K. Sugawara, C. Masutani, F. Hanaoka, C.M. Weemaes, T. Mori, L. Zou, and K. Komatsu. NBS1 recruits RAD18 via a RAD6-like domain and regulates pol-eta-dependent translesion DNA synthesis. **Mol. Cell**, 43 (2011) 788-797.
- 138). 森俊雄, DNA 損傷特異的モノクローナル抗体 : 修復欠損患者のがん化や神経障害を研究するための強力ツール, 東京大学アイソトープ総合センターニュース. 42 (2011) 2-7.
- 137). M.-K. Chen, Y.-C. Tsai, P.-Y. Li, C.-C. Liou, E.S. Taniga, D.-W. Chang, T. Mori, and Y.-C. Liu. Delay of gap filling during nucleotide excision repair by base excision repair: The concept of competition exemplified by the effect of propolis. **Toxicol. Sci.** 122 (2011) 339-348.
- 136). K.M. Thoms, C. Kuschal, E. Oetjen, T. Mori, N. Kobayashi, P. Laspe, L. Boeckmann, M.P. Schon, and S. Emmert. Cyclosporin A, but not everolimus, inhibits DNA repair mediated by calcineurin: implications for tumorigenesis under immunosuppression. **Exp. Dermatol.**, 20 (2011) 232-236.
- 135). K. Okabe, K. Kato, M. Teranishi, M. Okumura, R. Fukui, T. Mori, N. Fukushima, and T. Tsujiuchi. Induction of lysophosphatidic acid receptor-3 by 12-O-tetradecanoylphorbol-13-acetate stimulates cell migration of rat liver cells. **Cancer Lett.**, 309 (2011) 236-242.
- 134). K. Okabe, M. Hayashi, Y. Yamawaki, M. Teranishi, K. Honoki, T. Mori, N. Fukushima, and T. Tsujiuchi. Possible involvement of lysophosphatidic acid receptor-5 gene in the acquisition of growth advantage of rat tumor cells. **Mol. Carcinog.**, 50 (2011) 635-642.

- 133). M. Hayashi, K. Okabe, Y. Yamawaki, M. Teranishi, K. Honoki, T. Mori, N. Fukushima, and T. Tsujiuchi. Loss of lysophosphatidic acid receptor-3 enhances cell migration in rat lung tumor cells. **Biochem. Biophys. Res. Commun.**, 405 (2011) 450-454.
- 132). M. Tsujino, M. Fujii, K. Okabe, T. Mori, N. Fukushima, and T. Tsujiuchi. Differential expressions and DNA methylation patterns of lysophosphatidic acid receptor genes in human colon cancer cells. **Virchows Arch**, 457 (2010) 669-676.
- 131). H. Hiura, T. Matsui, M. Matsumoto, Y. Hori, A. Isonishi, S. Kato, T. Iwamoto, T. Mori, and Y. Fujimura. Proteolytic fragmentation and sugar chains of plasma ADAMTS13 purified by a conformation-dependent monoclonal antibody. **J. Biochem.**, 148 (2010) 403-4011.
- 130). H. Ikehata, R. Okuyama, E. Ogawa, S. Nakamura, A. Usami, T. Mori, K. Tanaka, S. Aiba, and T. Ono. Influences of p53 deficiency on the apoptotic response, DNA damage removal and mutagenesis in UVB-exposed mouse skin. **Mutagenesis**, 25 (2010) 397-405.
- 129). Y. Okahashi, T. Iwamoto, N. Suzuki, S. Shibutani, S. Sugiura, S. Itoh, T. Nishiwaki, S. Ueno, and T. Mori. Quantitative detection of 4-hydroxyequilenin-DNA adducts in mammalian cells using an immunoassay with a novel monoclonal antibody. **Nucleic Acids Res.** 38 (2010) e133
- 128). H. Asai, M. Hirano, K. Shimada, T. Kiriya, Y. Furiya, M. Ikeda, T. Iwamoto, T. Mori, K. Nishinaka, N. Konishi, F. Uda, and S. Ueno. Protein kinase C gamma, a protein causative for dominant ataxia, negatively regulates nuclear import of recessive-ataxia-related aprataxin. **Hum Mol Genet.** 18 (2009) 3533-3543.
- 127). Y. Shigemura, K. Iwai, F. Morimatsu, T. Iwamoto, T. Mori, C. Oda, T. Taira, E. Y. Park, Y. Nakamura, K. Sato. Effect of Prolyl-hydroxyproline (Pro-Hyp), a food-derived collagen peptide in human blood on growth of fibroblasts from mouse skin. **J Agric Food Chem.** 57 (2009) 444-449.
- 126). T. Tsujiuchi, M. Furukawa, Y. Obo, A. Yamasaki, M. Hotta, C. Kusunoki, N. Suyama, T. Mori, K. Honoki, and N. Fukushima. Infrequent mutation of lysophosphatidic acid receptor-1 gene in hamster pancreatic duct adenocarcinomas and established cell lines. **J. Toxicol. Pathol.** 22 (2009) 89-92.
- 125). J. Akagi, C. Masutani, Y. Kataoka, T. Kan, E. Ohashi, T. Mori, H. Ohmori, and F. Hanaoka. Interaction with DNA polymerase eta is required for nuclear accumulation of REV1 and suppression of spontaneous mutations in human cells. **DNA Repair**, 8 (2009) 585-599.
- 124). K. Kobayashi, Y. Yasuda, Y. Shintani, T. Sumitomo, T. Saga, M. Kimura, A. Yamamoto, T. Mori, A. Maeda, Y. Yamaguchi, and A. Morita. The development of a filter to enhance the efficacy and safety of excimer light (308 nm) therapy. **Photodermatol. Photoimmunol. Photomed.**, 25 (2009) 30-36.
- 123). T. Nishiwaki, N. Kobayashi, T. Iwamoto, A. Yamamoto, S. Sugiura, Y.-C. Liu, A. Sarasin, Y. Okahashi, M. Hirano, S. Ueno, and T. Mori. Comparative study of nucleotide excision repair defects between XPD-mutated fibroblasts derived from trichothiodystrophy and xeroderma pigmentosum patients, **DNA Repair**. 7 (2008) 1990-1998.
- 122). G. Yasuda, R. Nishi, E. Watanabe, T. Mori, S. Iwai, D. Orioli, M. Stefanini, F. Hanaoka, and K. Sugasawa. In vivo destabilization and functional defects of the xeroderma pigmentosum C protein caused by a pathogenic missense mutation. **Mol. Cell. Biol.**, 27 (2007) 6606-6614.
- 121). M. Horikawa-Miura, N. Matsuda, M. Yoshida, Y. Okumura, T. Mori, and M. Watanabe. The greater lethality of UVB radiation to cultured human cells is associated with the specific activation of a DNA damage-independent signaling pathway. **Radiat. Res.**, 167 (2007) 655-662.
- 120). M. Hirano, H. Asai, T. Kiriya, Y. Furiya, T. Iwamoto, T. Nishiwaki, A. Yamamoto, T. Mori, and S. Ueno. Short half-lives of ataxia-associated aprataxin proteins in neuronal cells. **Neurosci. Lett.**, 419 (2007) 184-187.
- 119). M. Matsumoto, K. Yaginuma, A. Igarashi, M. Imura, M. Hasegawa, K. Iwabuchi, T. Date, T. Mori, K. Ishizaki, K. Yamashita, M. Inobe, and T. Matsunaga. Perturbed gap-filling synthesis in nucleotide excision repair causes histone H2AX phosphorylation in human quiescent cells. **J. Cell Sci.**, 120 (2007) 1104-1112.
- 118). M. Hirano, A. Yamamoto, T. Mori, L. Lan, T. Iwamoto, M. Aoki, K. Shimada, Y. Furiya, S. Kariya, H. Asai, A. Yasui, T. Nishiwaki, K. Imoto, N. Kobayashi, T. Kiriya, T. Nagata, N.

Konishi, Y. Itoyama, and S. Ueno. DNA single strand break repair is impaired in aprataxin-related ataxia. **Ann. Neurol**, 61 (2007) 162-174.

117). A. Yamamoto, Y. Nakamura, N. Kobayashi, T. Iwamoto, A. Yoshioka, H. Kuniyasu, T. Kishimoto, and T. Mori. Neurons and astrocytes exhibit lower activities of global genome nucleotide excision repair than do fibroblasts. **DNA Repair**, 6 (2007) 649-657.

116). H. Ikehata, F. Yanase, T. Mori, O. Nikaido, K. Tanaka, and T. Ono. Mutation spectrum in UVB-induced skin epidermis of Xpa-knockout mice: frequent recovery of triplet mutations. **Environ. Mol. Mutagen.**, 48 (2007) 1-13.

115). H. Ikehata, Y. Saito, F. Yanase, T. Mori, O. Nikaido, and T. Ono. Frequent recovery of triplet mutations in UVB-exposed skin epidermis of Xpc-knockout mice. **DNA Repair** 6 (2007) 82-93.

114). H. Fujii, K. Honoki, T. Tsujiuchi, A. Kido, K. Yoshitani, T. Mori, and Y. Takakura. Reduced expression of INK4a/ARF genes in stem-like sphere cells from rat sarcomas. **Biochem. Biophys. Res. Commun.**, 362 (2007) 773-778.

113). T. Kitahashi, K. Sato, Y. Oka, T. Tsujiuchi, A. Sakamoto, M. Mitsui, T. Mori, Y. Nakamura, K. Ohtsuki, and M. Tsutsumi. Inhibition of pancreatic carcinogenesis by shark cartilage proteoglycan in hamsters. **J. Toxicol. Pathol.** 19 (2006) 179-184.

112). T. Tsujiuchi, K. Shimizu, M. Onishi, E. Sugata, H. Fujii, T. Mori, K. Honoki and N. Fukushima. Involvement of aberrant DNA methylation on reduced expression of lysophosphatidic acid receptor-1 gene in rat tumor cell lines. **Biochem. Biophys. Res. Commun.**, 349 (2006) 1151-1155.

111). Y. Oka, M. Mitsui, T. Kitahashi, A. Sakamoto, O. Kusuoka, T. Tsunoda, T. Mori, and M. Tsutsumi. A reliable method for intratracheal instillation of materials to the entire lung in rats. **J. Toxicol. Pathol.** 19 (2006) 107-109.

110). Y. Ibuki, M. Akaike, T. Toyooka, T. Mori, T. Nakayama, and R. Goto. Hydrogen peroxide is critical for UV-induced apoptosis inhibition. **Redox Report**, 11 (2006) 53-60.

109). K. Shimizu, T. Kitahashi, H. Fujii, M. Tsutsumi, T. Mori, K. Honoki, and T. Tsujiuchi. lines. **Oncol. Rep.**, 16 (2006) 85-89.

108). M. Yamada, M. U. Uono, M. Hori, R. Hirose, S. Sato, T. Mori, and O. Nikaido. Aged human skin removes UVB-induced pyrimidine dimers from the epidermis more slowly than younger adult skin in vivo. **Arch. Dermatol. Res.**, 297 (2006) 294-302.

107). R. Takasawa, H. Nakamura, T. Mori, and S. Tanuma. Differential apoptotic pathways in human keratinocyte HaCaT cells exposed to UVB and UVC. **Apoptosis**, 10 (2005) 1121-1130.

106). A. Navaraj, T. Mori, and W.S. El-Deiry. Cooperation between BRCA1 and p53 in repair of cyclobutane pyrimidine dimers. **Cancer Biol. Ther.**, 4 (2005) 1409-1414.

105). R. Nishi, Y. Okuda, E. Watanabe, T. Mori, S. Iwai, C. Masutani, K. Sugawara, and F. Hanaoka. Centrin 2 stimulates nucleotide excision repair by interacting with xeroderma pigmentosum group C protein. **Mol. Cell. Biol.**, 25 (2005) 5664-5674.

104). M. Uemura, K. Tatsumi, M. Matsumoto, M. Fujimoto, T. Matsuyama, M. Ishikawa, T. Iwamoto, T. Mori, A. Wanaka, H. Fukui, and Y. Fujimura. Brief report: Localization of ADAMTS13 to the stellate cells of human liver. **Blood**, 106 (2005) 922-924.

103). S. Sano, K. S. Chan, M. Kira, K. Kataoka, S. Takagi, M. Tarutani, S. Itami, K. Kiguchi, M. Yokoi, K. Sugawara, T. Mori, F. Hanaoka, J. Takeda, and J. DiGiovanni. Signal transducer and activator of transcription 3 is a key regulator of keratinocyte survival and proliferation following ultraviolet irradiation. **Cancer Res.**, 65 (2005) 5720-5729.

102). K. Sugawara, Y. Okuda, M. Saijo, R. Nishi, N. Matsuda, G. Chu, T. Mori, S. Iwai, K. Tanaka, K. Tanaka, and F. Hanaoka. UV-induced ubiquitylation of XPC protein mediated by UV-DDB-ubiquitin ligase complex. **Cell**, 121 (2005) 387-400.

101). G. Xu, G. Spivak, D. L. Mitchell, T. Mori, J. R. McCarrey, C. A. McMahan, R. B. Walter, P. C. Hanawalt, and C. A. Walter. Nucleotide excision repair activity varies among murine spermatogenic cell types. **Biol. Reprod.** 73 (2005) 123-130.

100). T. Tsujiuchi, T. Mori, T. Amanuma, N. Tanaka, and M. Tsutsumi. Establishment and characterization of a rat lung adenocarcinoma cell line with low malignant potential. **Cancer Lett.**, 217 (2005) 97-103.

- 99). Y. Nakamura, C.-C. Chang, T. Mori, K. Sato, K. Ohtsuki, B.L. Upham, and J.E. Trosko, Augmentation of differentiation and gap junction function by kaempferol in partially-differentiated colon cancer cells, **Carcinogenesis**, 26 (2005) 665-671.
- 98). Y. Takahashi, S. Moriwaki, Y. Sugiyama, T. Mori, M. Takigawa, and S. Inoue. Decreased gene expression responsible for post-ultraviolet DNA repair synthesis in aging: A possible mechanism of age-related reduction in DNA repair capacity. **J. Invest. Dermatol.** 124 (2005) 435-442.
- 97). 中村考志, 松尾友明, 岡本繁久, 友兼泉, 森俊雄, 佐藤健司, 大槻耕三, 京都の伝統野菜の生物的抗変異原性, **Environ. Mutagen Res.** 26 (2004) 259-264
- 96). T. Inoki, H. Endo, Y. Inoki, T. Hamamoto, T. Tsuru, T. Mori, K. Miyata, S. Amano, and S. Yamagami. Damaged DNA-binding protein 2 accelerates UV-damaged DNA repair in human corneal endothelium. **Exp. Eye Res.** 79 (2004) 367-376.
- 95). T. Iwamoto, N. Kobayashi, K. Imoto, A. Yamamoto, Y. Nakamura, Y. Yamauchi, H. Okumura, A. Tanaka, F. Hanaoka, S. Shibusaki, S. Miyagawa, and T. Mori. In situ detection of acetylaminofluorene-DNA adducts in human cells using monoclonal antibodies. **DNA Repair** 3 (2004) 1475-1482.
- 94). S. Kimura, Y. Tahira, T. Ishibashi, Y. Mori, T. Mori, J. Hashimoto, and K. Sakaguchi. DNA repair in higher plants; photoreactivation is the major DNA repair pathway in non-proliferating cells while excision repair (nucleotide excision repair and base excision repair) is active in proliferating cells. **Nucleic Acids Res.** 32 (2004) 2760-2767.
- 93). 中村 祐、山本垂弥、吉岡 玲、森 俊雄、岸本 年史 中枢神経系における遺伝子損傷とその修復 -奈良県立医科大学における取り組みを中心に-、**脳と精神の医学**、15 (2004) 51-58.
- 92). Y. Okuda, R. Nishi, J. M. Y. Ng, W. Vermeulen, G. T. J. van der Horst, T. Mori, J. H. J. Hoeijmakers, F. Hanaoka and K. Sugawara. Relative levels of the two mammalian Rad23 homologs determine composition and stability of the xeroderma pigmentosum group C protein complex. **DNA Repair** 3 (2004) 1285-1295.
- 91). K. Honoki, K. Yoshitani, T. Tsujiuchi, T. Mori, M. Tsutsumi, T. Morishita, Y. Takakura, and Y. Mii. Growth inhibition and induction of apoptosis by flavopiridol in rat lung adenocarcinoma, osteosarcoma and malignant fibrous histiocytoma cell lines. **Oncol. Rep.** 11 (2004) 1025-1030.
- 90). T. Inoki, S. Yamagami, Y. Inoki, T. Tsuru, T. Hamamoto, Y. Kagawa, T. Mori, and H. Endo. Human DDB2 splicing variants are dominant negative inhibitors of UV-damaged DNA repair. **Biochem Biophys Res Commun.** 314 (2004) 1036-1043.
- 89). 森 俊雄. 紫外線の皮膚への有害作用とその食品による軽減の可能性、**食品加工技術**、24 (2004) 1-5.
- 88). Y. Nishiwaki, N. Kobayashi, K. Imoto, T. Iwamoto, A. Yamamoto, S. Katsumi, T. Shirai, S. Sugiura, Y. Nakamura, A. Sarasin, S. Miyagawa, and T. Mori. Trichothiodystrophy fibroblasts are deficient in the repair of UV-induced cyclobutane pyrimidinedimers and (6-4) photoproducts. **J. Invest. Dermatol.** 122 (2004) 526-532.
- 87). 森 俊雄. DNA 修復の可視化、DNA 複製・修復がわかる、花岡文雄編, 羊土社, pp.125-129, 2004.
- 86). S. Okano, L. Lan, K. W. Caldecott, T. Mori, A. Yasui. Spatial and temporal cellular responses to single-strand breaks in human cells. **Mol Cell Biol.** 23 (2003) 3974-3981.
- 85). C.V. Giordano, T. Mori, O.E. Sala, A.L. Scopel, M.M. Caldwell, C.L. Ballare. Functional acclimation to solar UV-B radiation in *Gunnera magellanica*, a native plant species of southernmost Patagonia. **Plant Cell Environ.** 26(2003) 2027-2036.
- 84). 森 俊雄. 細胞生物学的アプローチ, ゲノムの修復と組換え-原子レベルから疾患まで-, 花岡文雄・武田俊一・柴田武彦編, シュプリング・フェアラーク東京, pp.97-108, 2003.
- 83). 森 俊雄. DNA 損傷検出法, 生物薬科学実験講座 8. 遺伝子 II, 名取俊二・中西義信編, 廣川書店, pp.303-312, 2003.
- 82). K. Imoto, N. Kobayashi, S. Katsumi, Y. Nishiwaki, T. Iwamoto, A. Yamamoto, Y. Yamashina, T. Shirai, S. Miyagawa, Y. Dohi, S. Sugiura and T. Mori. The total amount of DNA damage determines ultraviolet-radiation-induced cytotoxicity after uniform- or localized irradiation

of human cells. **J. Invest. Dermatol.**, 119 (2002) 1177-1182.

81). Y. Akiyama, K. Maruyama, N. Nara, T. Hojo, J-Y Cheng, T. Mori, R.H. Wiltout and K. Yamaguchi. Antitumor effects induced by dendritic cell-based immunotherapy against established pancreatic cancer in hamsters. **Cancer Lett.**, 184 (2002) 37-47.

80). T. Mori and N. Kobayashi. Quantitation and visualization of ultraviolet-induced DNA damage using specific antibodies. **J. Nara Med. Assoc.**, 53 (2002) 179-191.

79). R. Takimoto, T.K. MacLachlan, D.T. Dicker, Y. Niitsu, T. Mori and W.S. El-Deiry. BRCA1 transcriptionally regulates damaged DNA binding protein (DDB2) in the DNA repair response following UV-irradiation. **Cancer Biol. Ther.**, 1 (2002) 177-186.

78). M. Wakasugi, A. Kawashima, H. Morioka, S. Linn, A. Sancar, T. Mori, O. Nikaido and T. Matsunaga. DDB accumulates at DNA damage sites immediately after UV irradiation and directly stimulates nucleotide excision repair. **J. Biol. Chem.**, 277 (2002) 1637-1640.

77). S. Katsumi, N. Kobayashi, K. Imoto, A. Nakagawa, Y. Yamashina, T. Muramatsu, T. Shirai, S. Miyagawa, S. Sugiura, F. Hanaoka, T. Matsunaga, O. Nikaido and T. Mori. In situ visualization of ultraviolet light-induced DNA damage repair in locally irradiated human fibroblasts. **J. Invest. Dermatol.**, 117 (2001) 1156-1161.

76). Y. Kubota, C. Niwa, T. Ohnuma, Y. Ohko, T. Tatsuma, T. Mori and A. Fujishima. Protective effect of TiO₂ particles on UV light induced pyrimidine dimer formation. **J. Photochem. Photobiol. A: Chemistry**, 141 (2001)225-230.

75). N. Kobayashi, S. Katsumi, K. Imoto, A. Nakagawa, S. Miyagawa, M. Furumura and T. Mori. Review - Innovative technology: Quantitation and visualization of ultraviolet-induced DNA damage using specific antibodies: Application to pigment cell biology. **Pigment Cell Res.**, 14 (2001) 94-102.

74). H. Yanase, H. Ando, M. Horikawa, M. Watanabe, T. Mori and N. Matsuda. Possible involvement of ERK1/2 in UVA-induced melanogenesis in cultured normal human epidermal melanocytes. **Pigment Cell Res.**, 14 (2001) 103-109.

73). Y. Nakamura, I. Tomokane, T. Mori, A. Tanaka, J. Koutani, T. Matsuo, S. Okamoto, K. Sato and K. Ohtsuki. DNA repair effect of traditional sweet pepper Fushimi-togarashi: Seen in suppression of UV-induced cyclobutane pyrimidine dimer in human fibroblast. **Biosci. Biotechnol. Biochem.**, 64 (2000) 2575-2580.

72). 森 俊雄. 紫外線で誘発される DNA 損傷とその修復をヒト細胞核内で立体的に見る. **Environ. Mutagen Res.**, 22 (2000) 97-102.

71). E. Otsoshi, T. Yagi, T. Mori, T. Matsunaga, O. Nikaido, S-T. Kim, K. Hitomi, M. Ikenaga and T. Todo. Respective roles of cyclobutane pyrimidine dimers, (6-4)photoproducts, and minor photoproducts in ultraviolet mutagenesis of repair-deficient xeroderma pigmentosum A cells. **Cancer Res.**, 60 (2000) 1729-1735.

70). 森 俊雄. 紫外線誘発 DNA 損傷および修復酵素の細胞内分布状態の三次元的表示. **コスムトロロジー研究報告**, 7 (1999) 116-122.

69). A.I. Otto, L. Riou, C. Marionnet, T. Mori, A. Sarasin and T. Magnaldo. Differential behaviors toward ultraviolet A and B radiation of fibroblasts and keratinocytes from normal and DNA-repair-deficient patients. **Cancer Res.**, 59 (1999) 1212-1218.

68). T. Itoh, T. Mori, H. Ohkubo and M. Yamaizumi. A newly identified patient with clinical xeroderma pigmentosum phenotype has a non-sense mutation in the DDB2 gene and incomplete repair in (6-4)photoproducts. **J. Invest. Dermatol.**, 113 (1999) 251-257.

67). R.D. Vetter, A. Kurtzman and T. Mori. Diel Cycles of DNA Damage and Repair in Eggs and Larvae of Northern Anchovy, *Engraulis mordax*, Exposed to Solar Ultraviolet Radiation. **Photochem. Photobiol.**, 69 (1999) 27-33.

66). K. Honoki, T. Mori, M. Tsutsumi, T. Tsujiuchi, A. Kido, T. Morishima, Y. Miyauchi, Y. Dohi, Y. Mii, S. Tamai and Y. Konishi. Heterogeneous pattern of gene expression in cloned cell lines established from a rat transplantable osteosarcoma lung metastatic nodule. **Cancer Lett.**, 127 (1998) 221-228.

65). A. Nakagawa, N. Kobayashi, Y. Yamashina, C. Nakatani, T. Muramatsu, T. Shirai and T.

- Mori. Effect of nonenzymatic glycosylation on the titers of circulating autoantibodies in pemphigus and pemphigoid, **J. Dermatol.**, 25 (1998) 710-715.
- 64). A. Nakagawa, N. Kobayashi, T. Muramatsu, Y. Yamashina, T. Shirai, M.W. Hashimoto, M. Ikenaga and T. Mori. Three-dimensional visualization of ultraviolet-induced DNA damage and its repair in human cell nuclei, **J. Invest. Dermatol.**, 110 (1998) 143-148.
- 63). N. Kobayashi, A. Nakagawa, T. Muramatsu, Y. Yamashina, T. Shirai, M.W. Hashimoto, Y. Ishigaki, T. Ohnishi and T. Mori. Supranuclear melanin caps reduce ultraviolet induced DNA photoproducts in human epidermis, **J. Invest. Dermatol.**, 110 (1998) 806-810.
- 62). T. Mori, A. Nakagawa, N. Kobayashi, M.W. Hashimoto, K. Wakabayashi, K. Shimoi and N. Kinae. 3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole (Trp-P-1) sensitizes mammalian cells to UV radiation by causing the S-phase arrest, not by inhibiting the repair of DNA damage as observed in *Escherichia coli*, **J. Radiat. Res.**, 39 (1998) 21-33.
- 61). T. Yagi, Y. Matsumura, M. Sato, C. Nishigori, T. Mori, A.M. Sijbers and H. Takebe. Complete restoration of normal DNA repair characteristics in group F xeroderma pigmentosum cells by over-expression of transfected XPF cDNA, **Carcinogenesis**, 19 (1998) 55-60.
- 60). K. Shimoi, R. Miyamura, T. Mori, T. Todo, E. Ohtsuka, K. Wakabayashi and N. Kinae. 3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole (Trp-P-1) inhibits the binding activity of T4 endonuclease V to UV-damaged DNA, **Carcinogenesis**, 17 (1996) 1279-1283.
- 59). K.S. Sweder, R. Chun, T. Mori and P.C. Hanawalt. DNA repair deficiencies associated with mutations in genes encoding subunits of transcription initiation factor TFIIH in yeast, **Nucleic Acids Res.**, 24 (1996) 1540-1546.
- 58). G. Lapointe, T. Mori and D.H. Evans. Tobacco plants expressing T4 endonuclease V show enhanced sensitivity to ultraviolet light and DNA alkylating agents, **Mutation Res.**, 351 (1996) 19-31.
- 57). T. Sato, N. Oku, E. Iida, K. Kawaguchi, K. Yamanaka, T. Mori and S. Okada. Differential effect of UV-B and UV-C on DNA damage in L-132 cells, **Biol. Pharm. Bull.**, 19 (1996) 721-725.
- 56). Y. Nagai, M. Hirano, T. Mori, Y. Takakura, S. Tamai and S. Ueno. Japanese triplets with cerebrotendinous xanthomatosis are homozygous for a mutant gene coding for the sterol 27-hydroxylase (Arg441Trp), **Neurology**, 46 (1996) 571-574.
- 55). 森 俊雄、松永 司、二階堂 修. ELISA (Enzyme-linked immunosorbent assay) 法による紫外線誘発 DNA 損傷の検出、**放射線生物研究**、31 (1996) 40-51.
- 54). M. W. Hashimoto, O. Nikaido, N. Kobayashi, C.-C. Chang, J. E. Trosko and T. Mori. A comparison of the propensity for gene amplification between near-tetraploid and near-diploid V79 clones resistant to 150 nM methotrexate, **Carcinogenesis**, 17 (1996) 389-394.
- 53). M. Tsutsumi, K. Ohashi, T. Tsujiuchi, K. Kobayashi, K. Kobitsu, H. Kitada, T. Majima, E. Okajima, T. Endoh, K. Hasegawa, T. Mori and Y. Konishi. Disturbance of the cell cycle with colchicine enhances the growth advantage of Diethylnitrosamine-initiated hepatocytes in rats, **Jpn. J. Cancer Res.**, 87 (1996) 5-9.
- 52). P.H. Clingen, C.F. Arlett, L. Roza, T. Mori, O. Nikaido and M.H.L. Green. Induction of cyclobutane pyrimidine dimers, pyrimidine(6-4)pyrimidone photoproducts, and Dewar valence isomers by natural sunlight in normal human mononuclear cells, **Cancer Res.**, 55 (1995) 2245-2248.
- 51). H. Yasutake, H. Tsuchiya, K. Tomita, T. Matsunaga, O. Nikaido and T. Mori. Inhibitory effect of caffeine on potentially lethal damage repair in cisplatin-treated human osteosarcoma cells, **Anticancer Res.**, 15 (1995) 831-838.
- 50). 橋本光正、二階堂 修、森 俊雄. Fluorescence in situ hybridization (FISH) 法、**放射線生物研究**、30 (1995) 273-285.
- 49). T. Sato, E. Iida, K. Kawaguchi, K. Yamanaka, T. Mori, N. Oku and S. Okada. Mode of gene damage induced by exposure to UVB and some radical species, **Jpn. J. Toxicol. Environ. Health**, 41(1995)17.
- 48). H. Matsumoto, A. Takakusu, T. Mori, M. Ihara, T. Todo and T. Ohnishi. Preferential inhibition of nucleosome assembly by ultraviolet-induced (6-4)photoproducts, **Photochem.**

Photobiol., 61 (1995) 459-462.

47). N. Kobayashi, T. Muramatsu, Y. Yamashina, T. Shirai, R. Hashizume, T. Ohnishi and T. Mori. Photoprotection by melanin against photoproduct type DNA damage formation and cell killing. In: L. Zeise, M.R. Chedekel, T.B. Fitzpatrick (eds.). **Melanin: Its role in human protection**. Valdenmar Publishing, Overland Park, KS, 1995, pp.141-150.

46). K. Okaichi, T. Mori, M. Ihara and T. Ohnishi. Unique DNA repair property of an ultraviolet-sensitive (radC) mutant of *Dictyostelium discoideum*, **Photochem. Photobiol.**, 61 (1995) 281-284.

45). P.H. Clingen, C.F. Arlett, J. Cole, A.P.W. Waugh, J.E. Lowe, S.A. Harcourt, N. Hermanova, L. Roza, T. Mori, O. Nikaido and M.H.L. Green. Correlation of UVC and UVB cytotoxicity with the induction of specific photoproducts in T-lymphocytes and fibroblasts from normal human donors, **Photochem. Photobiol.**, 61 (1995) 163-170.

44). T. Mori, M. Tsutsumi, O. Noguchi, K. Horiguchi, K. Hohnoki, S. Okita, F. Suzuki and Y. Konishi. Characterization of three cloned cell lines from a N-nitrosobis (2-hydroxypropyl) amine-induced transplantable hamster pancreatic ductal adenocarcinoma, **Int. J. Pancreatol.**, 16 (1994) 171-177.

43). K. Takeda, Y. Tochika, R. Fukazawa and T. Mori. Flavonoids as UV-protectant, **Acta Horticulturae**, 381 (1994) 348-354.

42). T. Mori, K. Shimoi, Y.F. Sasaki, K. Wakabayashi, M. Nagao and N. Kinai. 3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole (Trp-P-1) inhibits the removal of both cyclobutane dimers and (6-4)photoproducts from the DNA of ultraviolet-irradiated *E. coli*, **Carcinogenesis**, 14 (1993) 1475-1478.

41). T. Mori, T.L. Rinaldy, R.S. Athwal, G.P. Kaur, O. Nikaido, R.S. Lloyd and A. Rinaldy. A xeroderma pigmentosum complementation group A related gene: confirmation using monoclonal antibodies against the cyclobutane dimer and (6-4)photoproduct, **Mutation Res.**, 293 (1993) 143-150.

40). N. Kobayashi, T. Muramatsu, Y. Yamashina, T. Shirai, T. Ohnishi and T. Mori. Melanin reduces ultraviolet-induced DNA damage formation and cell killing rate in cultured human melanoma cells, **J. Invest. Dermatol.**, 101 (1993) 685-689.

39). A.E. Stapleton, T. Mori and V. Walbot. A simple and sensitive antibody-based method to measure UV-induced DNA damage in *Zea mays*, **Plant Mol. Biol. Reporter**, 11 (1993) 230-236.

38). T. Matsunaga, Y. Hatakeyama, M. Ohta, T. Mori and O. Nikaido. Establishment and characterization of a monoclonal antibody recognizing the Dewar isomers of (6-4)photoproducts, **Photochem. Photobiol.**, 57 (1993) 934-940.

37). M.U. Uono, M. Hori, M. Hirayama, H. Yoshida, T. Suematsu, T. Mori, T. Matsunaga, T. Mizuno and O. Nikaido. Visualization of ultraviolet light-induced thymine dimers in DNA by immunoelectron microscopy, **Photochem. Photobiol.**, 57 (1993) 752-754.

36). C.F. Arlett, J.E. Lowe, S.A. Harcourt, A.P.W. Waugh, J. Cole, L. Roza, B.L. Diffey, T. Mori, O. Nikaido and M.H.L. Green. Hypersensitivity of human lymphocytes to UV-B and solar irradiation, **Cancer Res.**, 53 (1993) 609-614.

35). M. Numata, H. Hata, T. Shiomi, T. Matsunaga, T. Mori, O. Nikaido, A. Yasui and A. Oikawa. Identification of cellular defect in UVS1, a UV-sensitive Chinese hamster ovary mutant cell line, **Cancer Res.**, 53 (1993) 495-499.

34). Y. Sasaki, T. Mori, H. Shiiki, K. Dohi and H. Ishikawa. Nonenzymatic glycosylation of mouse monoclonal antibody reduces its binding activity to antigen, **Clinica Chimica Acta**, 220 (1993) 119-121.

33). 小林信彦、村松 勉、山科幸夫、白井利彦、大西武雄、森 俊雄。メラニン色素のサン
スクリーン効果, **放射線生物研究**, 28 (1993) 20-37.

32). 岡市協生、森 俊雄、大西武雄。紫外線による細胞死, **活性酸素・フリーラジカル**, 4 (1993) 13-19.

31). T. Muramatsu, N. Kobayashi, H. Tada, M. Yamaji, T. Shirai, T. Mori and T. Ohnishi. Induction and repair of UVB-induced cyclobutane pyrimidine dimers and (6-4)photoproducts in organ-cultured normal human skin, **Arch. Dermatol. Res.**, 284 (1992) 232-237.

- 30). 谷本能文, 高松真二, 森 俊雄, 鈴木文男, 二階堂 修, 伊藤道也, 渡辺正己. X線・紫外線の細胞致死作用に対する静磁場の影響, **環境科学会誌**, 5 (1992) 279-283.
- 29). 森 俊雄, 大西武雄. 紫外線による DNA 損傷としてすくなくとも 2 種類を考えることが必須となってきた, **医学のあゆみ**, 161 (1992) 925.
- 28). T. Mori, M. Nakane, T. Hattori, T. Matsunaga, M. Ihara and O. Nikaido. Simultaneous establishment of monoclonal antibodies specific for either cyclobutane pyrimidine dimer or (6-4)photoproduct from the same mouse immunized with ultraviolet-irradiated DNA, **Photochem. Photobiol.**, 54 (1991) 225-232.
- 27). K. Amanai, M. Sasaki, S. Sakurai, T. Mori, O. Nikaido and T. Ohtaki. Occurrence of lectin in the silk gland of the silkworm, *Bombyx mori*, **Develop. Growth & Differ.**, 33 (1991) 421-427.
- 26). 二階堂 修, 松永 司, 水野照美, 若杉光生, 森 俊雄. 分子生物学的にみた損傷と修復, **太陽紫外線防御研究会学術報告**, 太陽紫外線防御研究会編, 1 (1991) 4-12.
- 25). 土屋弘行, 富田勝郎, 安竹秀俊, 大野賢朗, 横川明雄, 田中基裕, 佐々木琢磨, 森 俊雄. 悪性軟部腫瘍に対するシスプラチンとカフェインの術前併用動注療法 -a preliminary report-, **整形外科**, 42 (1991) 1427-1433.
- 24). 森 俊雄, 二階堂 修. DNA 鎖切断の検出法, 細胞トキシコロジー試験法, 日本組織培養学会編, 朝倉書店, pp.226-237, 1991.
- 23). T. Mori, T. Matsunaga, C.-C. Chang, J.E. Trosko and O. Nikaido. In situ (6-4) photoproduct determination by laser cytometry and autoradiography, **Mutation Res.**, 236 (1990) 99-105.
- 22). T. Matsunaga, T. Mori and O. Nikaido. Base sequence specificity of a monoclonal antibody binding to (6-4)photoproducts, **Mutation Res.**, 235 (1990) 187-194.
- 21). T. Mori, M. Nakane, T. Hattori, T. Matsunaga and O. Nikaido. Establishment of two monoclonal antibodies specific for cyclobutane pyrimidine dimer and their characterization, **Photomed. Photobiol.**, 12 (1990) 203-205.
- 20). T. Mori, M. Nakane, T. Hattori, T. Matsunaga and O. Nikaido. Establishment of four monoclonal antibodies specific for (6-4)photoproduct and their characterization, **Photomed. Photobiol.**, 12 (1990) 207-209.
- 19). T. Mori, A.A. Wani, S.M. D'Ambrosio, C.-C. Chang and J.E. Trosko. In situ pyrimidine dimer determination by laser cytometer, **Photochem. Photobiol.**, 49 (1989) 523-526.
- 18). F. Suzuki, T. Mori, O. Nikaido, K. Suzuki and M. Watanabe. Neoplastic transformation and chromosome aberration induced by tritiated water in golden hamster embryo cells, **Proceed. 3rd Japan-US workshop on Tritium radiobiology and health physics** (Ed, by S. Okada), Institute of Plasma Physics, Nagoya, (1989) pp.211-216.
- 17). 森 俊雄, 二階堂 修. 培養細胞に感染したマイコプラズマの DNA プローブ製品を用いた簡便な検出, **組織培養**, 15 (1989) 382-387.
- 16). 二階堂 修, 松永 司, 水野照美, 森 俊雄. 紫外線によって生じる遺伝子損傷-モノクローナル抗体による解析-, **日本化粧品科学会誌**, 13 (1989) 213-218.
- 15). 二階堂 修, 松永 司, 水野照美, 森 俊雄. 紫外線損傷を認識するモノクローナル抗体の樹立とその応用, **第 1 回 セザール生命科学シンポジウム** (奥原英二編), セザール生命科学振興会, (1989) pp.93-107.
- 14). 松永 司, 水野照美, 森 俊雄, 二階堂 修. 紫外線誘発 DNA 損傷を認識するモノクローナル抗体の樹立とその性格付け; チミンダイマー対 (6-4)photoproduct, **放射線生物研究**, 24 (1989) 139-151.
- 13). T. Mori, T. Matsunaga, T. Hirose and O. Nikaido. Establishment of a monoclonal antibody recognizing ultraviolet light-induced (6-4)photoproducts, **Mutation Res.** 194 (1988) 263-270.
- 12). 森 俊雄. 遺伝子増幅は DNA 合成阻害に続く細胞内 DNA 量増加が引き金となって起こるか?, **実験医学**, 6 (1988) 450-452.
- 11). T. Mori, C.-C. Chang and J.E. Trosko. The role of the inhibition of DNA polymerase alpha by aphidicolin in DNA amplification in Chinese hamster V79 cells, **Accomplishments in oncology -The role of DNA amplification in carcinogenesis-**, Hausen and Schlehofer (eds), J.B. Lippincott Co., Philadelphia, (1987) pp.161-172.
- 10). T. Matsunaga, T. Mori and O. Nikaido. Analysis of antigenic determinant of a monoclonal

antibody (D10-4-2-2) directed against UV-induced DNA damage, **Photomed. Photobiol.**, 7 (1985) 73-74.

9). 森 俊雄. WR-2721 (S-2-(3-aminopropylamino) ethylphosphorothioic acid) の放射線障害防護作用に関する研究、**薬学博士論文** (東京大学) 1985.

8). 森 俊雄、二階堂 修. DNA 損傷を認識するモノクローナル抗体の作製、**組織培養**、11 (1985) 476-480.

7). T. Mori, O. Nikaido and T. Sugahara. Dephosphorylation of WR-2721 with mouse tissue homogenate, **Int. J. Radiat. Oncol. Biol. Phys.**, 10 (1984) 1529-1531.

6). 森 俊雄. DNA 損傷を認識するモノクローナル抗体, **Radioisotopes**, 33 (1984) 123.

5). T. Mori, M. Watanabe, M. Horikawa, O. Nikaido, H. Kimura, T. Aoyama and T. Sugahara. WR-2721, its derivatives and their radioprotective effects on mammalian cells in culture, **Int. J. Radiat. Biol.**, 44 (1983) 41-53.

4). 堀川正克、森 俊雄、渡辺正巳. 放射線遺伝学実験法、**培養細胞遺伝学実験法 2**、黒田行昭編、共立出版、(1981) pp.298-322.

3). 森 俊雄. 動物細胞のDNA合成 (II) オートラジオグラフィ法を用いた細胞周期の解析、**放射線生物学実習**、放射線生物学実習書編集委員会編、講談社サイエンティフィック、(1980) 85-88.

2). T. Mori, M. Horikawa, O. Nikaido and T. Sugahara. Comparative studies on protective effects of various sulfhydryl compounds against cell death and DNA strand breaks induced by X-rays in cultured mouse L cells, **J. Radiat. Res.**, 19 (1978) 319-335.

1). M. Hikita, M. Horikawa and T. Mori. Analyses of radioprotective action and cytotoxicity of various sulfhydryl compounds in cultured mouse L cells, **J. Radiat. Res.**, 16 (1975) 162-172.