L35 ANSWER 84 OF 183 CA COPYRIGHT 1998 ACS
AN 128:33049 CA
TI Myofibroblast-like cells exhibiting a mutated p53 gene isolated from a liver human ***tumor*** of a worker exposed to vinyl chloride

95-01-4

AU Boivin, S.; Pedron, S.; Bertrand, S.; Desmouliere, A.; Martel-Planche, G.; Bancel, B.; Montesano, R.; Trepo, C.; Marion, M. J.
CS Inst. Natl. Sante Recherche Med., Lyon, 69424, Fr.
SO Cells Hepatic Sinusoid (1997), Volume Date 1996, 6, 449-451
CODEN: CHSIEL
PB Kupffer Cell Foundation
DT Journal
LA English
AB To better understand the cellular mechanisms of liver carcinogenesis, cells isolated from a liver ***tumor*** , in a worker occupationally exposed to vinyl chloride for 23 yr, were established in culture. These cells, BM 2.2.1, which could be expanded during 30 passages, were characterized. They exhibited a morphol. similar to that of transformed fibroblasts. They were neg. for desmin, smooth muscle myosin, cytokeratin 19 and von Willebrand factor, pos. for vimentin and showed stress fibers strongly labeled for .alpha. smooth muscle actin (.alpha.SMA) with an important deposition of fibronectin around the cells. Ultrastructure showed typical myofibroblast-like features (e.g. microfilaments bundles). Their chromosome no. ranged from 38 to 168 with two populations: a near diploid one with 41 to 47 chromosomes and a hypotetraploid one with 74 to 87 chromosomes. Structural aberrations were found, esp. loss of chromosome Y and double-minutes were obsd. in every mitose. No ***mutations*** were found in codons 12 and 13 of the Ki-ras gene whereas a point ***mutation*** at codon 179 (CAT.fwdarw.CTT) was detected in the p53 gene. Finally, these cells presented: (1) typical myofibroblastic features (particularly the expression of .alpha.SMA), (2) a karyotype suggestive of ***tumoral*** cells, (3) a mutated p53 gene, suggesting that among the liver mesenchymal cells, both endothelial and fibroblastic cells (particularly perisinusoidal stellate cells) may acquire a ***tumoral*** phenotype and participate in the development of so called angiosarcomas.

File only

L35 ANSWER 70 OF 214 CA COPYRIGHT 1996 ACS
AN 125:94279 CA
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TI Liver angiosarcoma in a male worker exposed to vinyl chloride for 22 years
AU Moszczynski, Paulin; Moszczynski, Paulin, Jr.; Zabinski, Zbigniew
CS Oddzialu Chorob Wewnetrznych, Pol.
SO Med. Pr. (1996), 47(2), 159-162
CODEN: MEPAAX; ISSN: 0465-5893
DT Journal
LA Polish
AB The case of liver ***sarcoma*** in a 47 yr-old male worker exposed to vinyl chloride during 22 yr is presented. During that period the patient inhaled about 0.8105 kg of vinyl chloride. It is estd. that the asymptomatic phase of liver angiosarcoma lasted 21 yr. The patient died 4 mo after the occurrence of clin. symptoms.