



Investigation of human mitochondrial DNA abnormality in colon cancer

By Mansoureh Akouchekian

Cuvillier Verlag Okt 2008, 2008. Taschenbuch. Condition: Neu. Neuware - The appearance of mtDNA abnormalities including deletions, duplications, insertions or combinations of them in colorectal cancer (CRC) patients was investigated in this work. Our result showed that 11 of 90 CRC patients had a 8.7kb mtDNA deletion (12.2%) while this deletion was not found in 33 healthy controls. (P=0.035) We conclude that the 8.7 kb deletion can be a secondary effect of the cancer process, which is not inherited. This is the first report on large scale deletions in CRC. We also analyzed the correlation between cancers and mitochondrial haplogroups. The relationship between CRC and each of 9 major mitochondrial haplogroups were examined in Iranian CRC patients. This is the first study to trace mtDNA HVS1 variants in CRC patients of the Persian population. Our data showed that patients with CRC have a significantly (P=0.001) higher frequency of haplogroup K (9.5%) when compared with controls (0%). The mitochondrial polymorphisms in haplogroup K might play a causative role in predisposing to CRC. Variations in the D-loop region were found in both CRC patients and healthy people but the frequency of SNPs in CRC patients was higher than in control samples. We found 13 new polymorphisms that had not been recorded in the mitochondrial database. We also detected one...



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