

AUTHORS: Liu A, Sun K, Yang J, Zhao D

TITLE: TOXICOLOGICAL EFFECTS OF MULTI-WALL CARBON NANOTUBES IN RATS

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ABSTRACT: The aim of this study was to evaluate the lung toxicity of multi-wall carbon nanotubes (MWCNTs). The present work exposed MWCNTs into the rats in intratracheal instillation administration modes. We systematically studied the distribution of nanoparticles in vivo, target organs and time-effects of nanotoxicity, dose-effects of nanotoxicity, etc. These results indicate that under the conditions of this test, pulmonary exposures to MWCNTs in rats by intratracheal instillation produced a series of multiple lesions in a dose-dependent and time-dependent manner, evidence of a foreign tissue body reaction.