Aims and Scope

Basic & Clinical Pharmacology & Toxicology is an independent journal, publishing original scientific research in all fields of toxicology, basic and clinical pharmacology. This includes experimental animal pharmacology and toxicology and molecular (genetic), biochemical and cellular pharmacology and toxicology. It also includes all aspects of clinical pharmacology: pharmacokinetics, pharmacodynamics, therapeutic drug monitoring, drug-drug interactions, pharmacogenetics/genomics, pharmacopoeidemiology, Pharmacovigilance, pharmacoconomics, randomized controlled clinical trials and rational pharmacotherapy. For all compounds used in the studies, the chemical constitution and composition should be known, also for natural compounds.

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Cover illustration: Physicochemical-dependent histological changes in mouse lungs one year after intratracheal instillation of 11 well-characterized multi-walled carbon nanotubes (MWCNTs). Short and thin MWCNTs were observed as black agglomerates in lung tissue one year after exposure, whereas thicker and longer MWCNTs were detected as single fibres. The thin MWCNTs induced varying degree of pulmonary inflammation, in terms of lymphocytic aggregates, granulomas and macrophage infiltration, whereas two thick and straight MWCNTs did not. Regression analysis showed that larger diameter and higher content of iron predicted less histopathological changes, whereas higher cobalt content significantly predicted more histopathological changes.

Article title: Physicochemical predictors of Multi-Walled Carbon Nanotube-induced pulmonary histopathology and toxicity one year after pulmonary deposition of 11 different Multi-Walled Carbon Nanotubes in mice.