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What's 'Good' and what's 'Bad'













Carbon Nanotube Toxicology



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CNT Pharmacology & Toxicology

Conclusions



Kostarelos, Nature Biotechnology, 2008

- CNT interact with biological matter leading to biological activity
- CNT structural and surface characteristics determine biological profiles *in vitro* and *in vivo*
- Chemical functionalisation with small hydrophilic groups that can lead to individualised CNT can cross the glomerular filter and be excreted in urine
- Processes that can lead to shorter that 5µm CNT can completely alleviate the asbestos-like reactivity
- CNT Structure-Biological Function studies are the only way forward





