





SMALL MATERIAL - BIG IMPACT

Carbon Nanomaterials in Operative Dentistry & Endodonotics

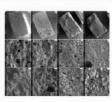
GRAPHENE

- · 2D SP2 hydridisation
- · Application against cariogenic bacteria
- Application to prevent tooth demineralisation
- · Application for tooth mineralisation

CARBON NANOTUBES

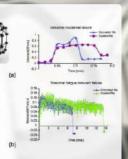
- · One Dimensional hollow cylinder
- · CNT incorporated endodontic sealer
 - Improved bonding performance to dentin
 - Improved performance against E.faecalis and C.albicans
- CNT incorporated GIC
 - O Improve mechanical properties
 - O Reduces risk of bulk fracture and secondary caries.





FULLERENE

- · Zero dimensional
- In dental restorations composite resins & bonding systems.
- · Fullerene coated endodontic files improve treatment outcome



CARBON NANODOTS

- · New root canal disinfectant against E- faecalis
- · Helps in odontoblasic differentiation
- · Anti inflammatory and antioxidant

