



# Medical chemistry- year1

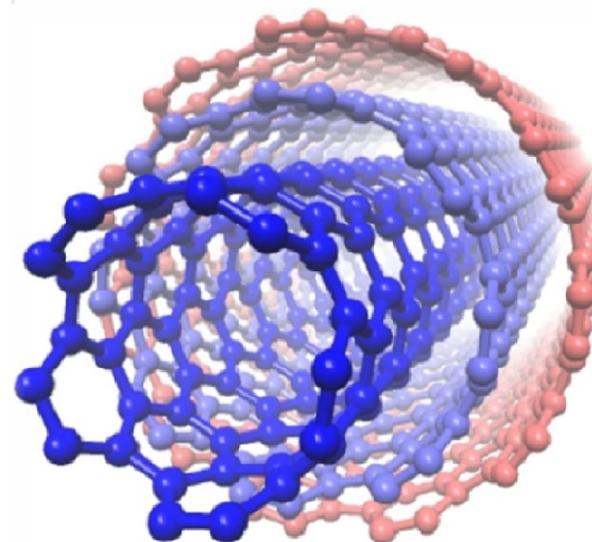


**Lecture No:11**

## Carbon Nanotubes (CNTs) – Dentistry Applications

**By Lecturer : Dr . Huda Mahdi**

*College of Dentistry - University of Basrah*





# Medical chemistry- year1



## Objectives

At the end of this lecture we will understand the following points.

- **Introduction**
- **Bonding in Carbon**
- **Bonding in Carbon**
- **Allotropes of Carbon**
- **Diamond**
- **Graphite**
- **Graphene**



# Medical chemistry- year1



- **Fullerenes**
- **Buckminster fullerenes**
- **Carbon nanotubes (CNTs)**
- **Single-walled carbon nanotubes(SWCNTs**
- **Multi-walled carbon nanotubes (MWCNTs)**
- **Double-walled carbon nanotubes (DWNTs):**
- **Double-walled carbon nanotubes (DWNTs):**
- **Chemical Bonding of CNTs**



# Medical chemistry- year1



- **Application Of CNTs in Dentistry**
- **Dental Restorative Materials:**
- **Scaffolds**
- **Implant Coats**
- **Fillers in dental Materials**