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Graphene oxide and photosensitizer interaction in drug delivery

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Graphene Oxide (GO) is an oxidized form of graphene, containing functional groups exposed all over its surface expanding the capacity to link drugs and other functional molecules through noncovalent/covalent interaction. Therefore, GO can be considered an appropriate platform, since it can easily physically absorb cationic charged dye compounds via strong p-p and electrostatic interaction on its surface resulting on the formation of GO-dye composite. GO is basically composed of carbon than it can be considered relatively biocompatible, being a suitable candidate for biological applications as well. We associated GO with a photosensitizer for photodynamic therapy. UV-vis spectroscopy and fluorescence emission measurement were used to characterize this system.

Biography

Claure N Lunardi has completed her Undergraduate in Chemistry from Universidade de São Paulo (1996), Master's at Chemistry from Universidade de São Paulo (1999) and PhD at Chemistry from Universidade de São Paulo (2004). She has experience in Chemistry, focusing on Photochemistry and Nanotechnology. She has published more than 45 papers in reputed journals.

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