

*Article*

# Hexagonal Boron Nitride Functionalized With Au Nanoparticles –Properties And Potential Biological Applications

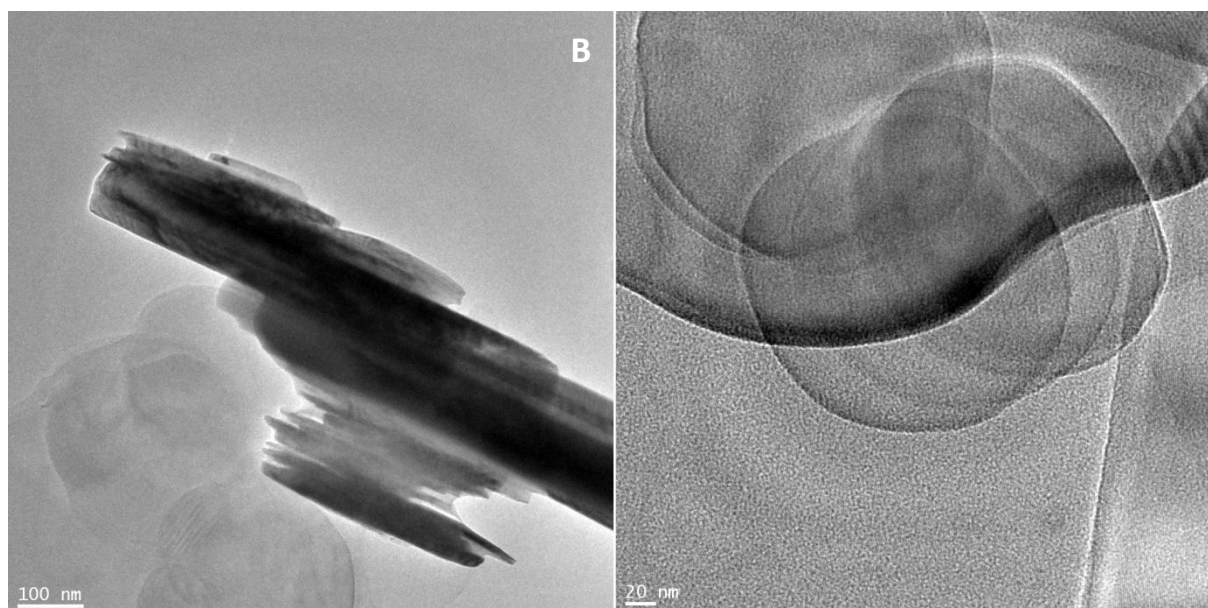
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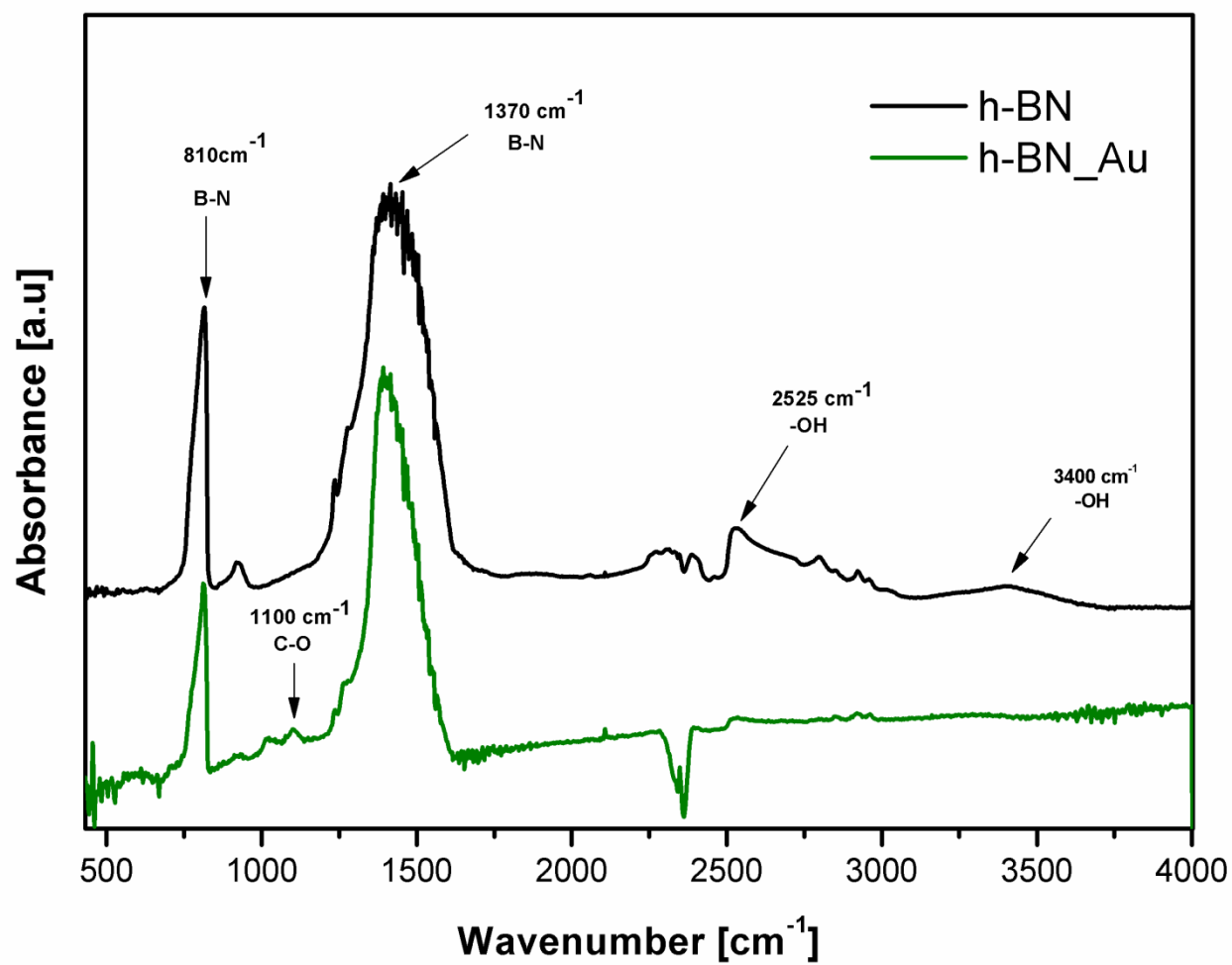
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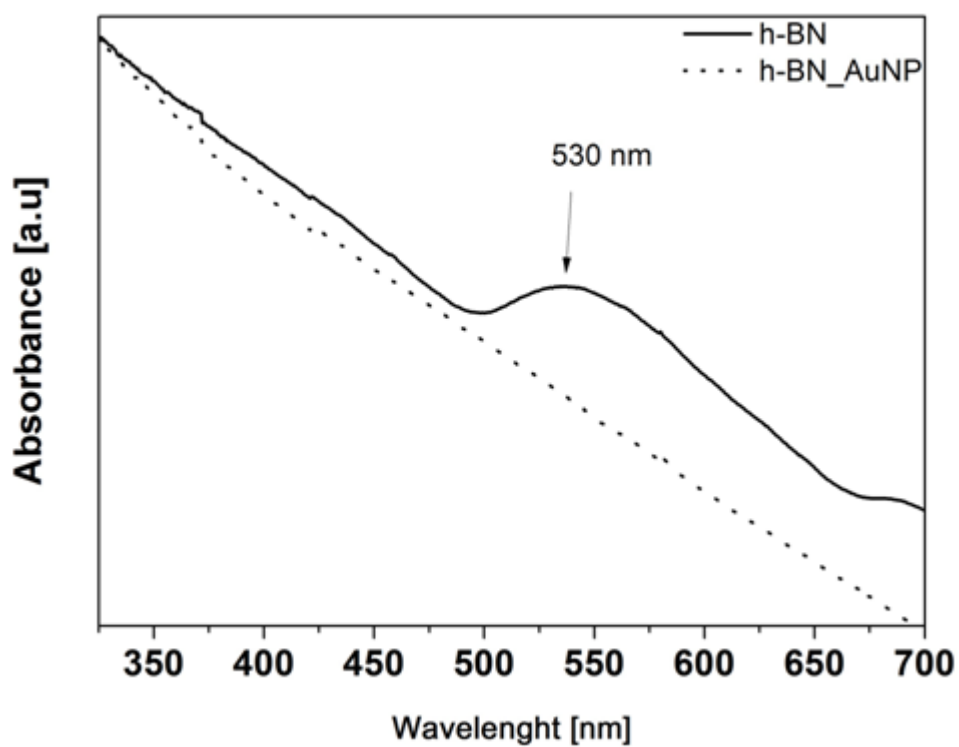


**Figure S1.** Transmission electron microscopy images of commercial (A) and exfoliated h-BN (B).

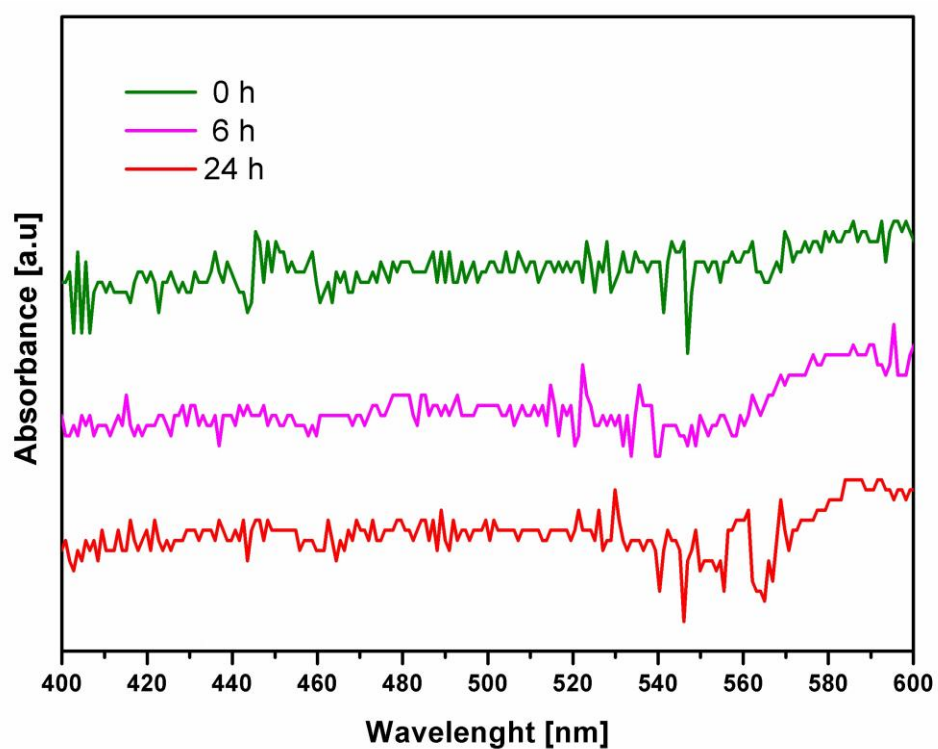


**Figure S2.** FT-IR spectra of h-BN and h-BN<sub>Au</sub>.

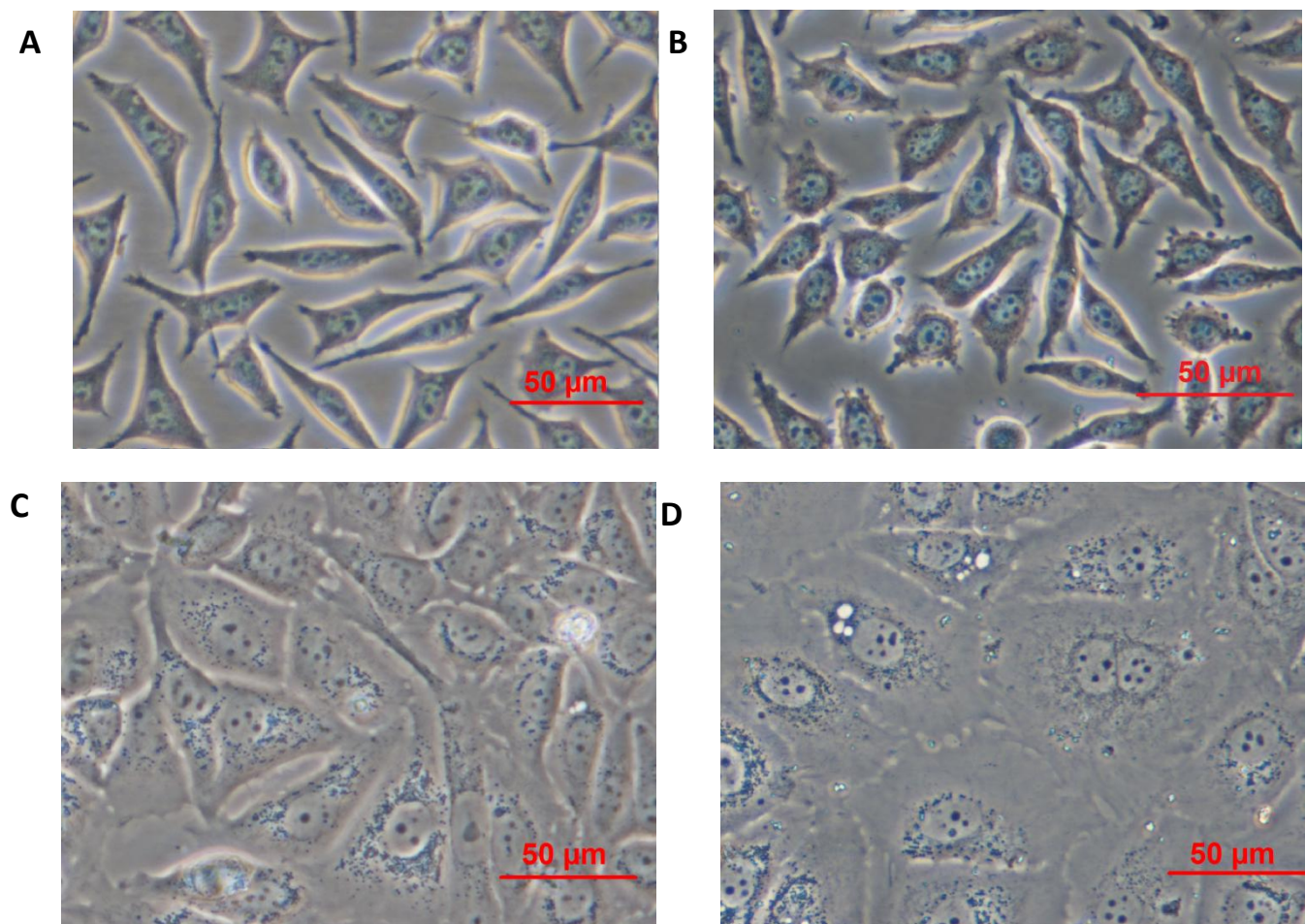
A



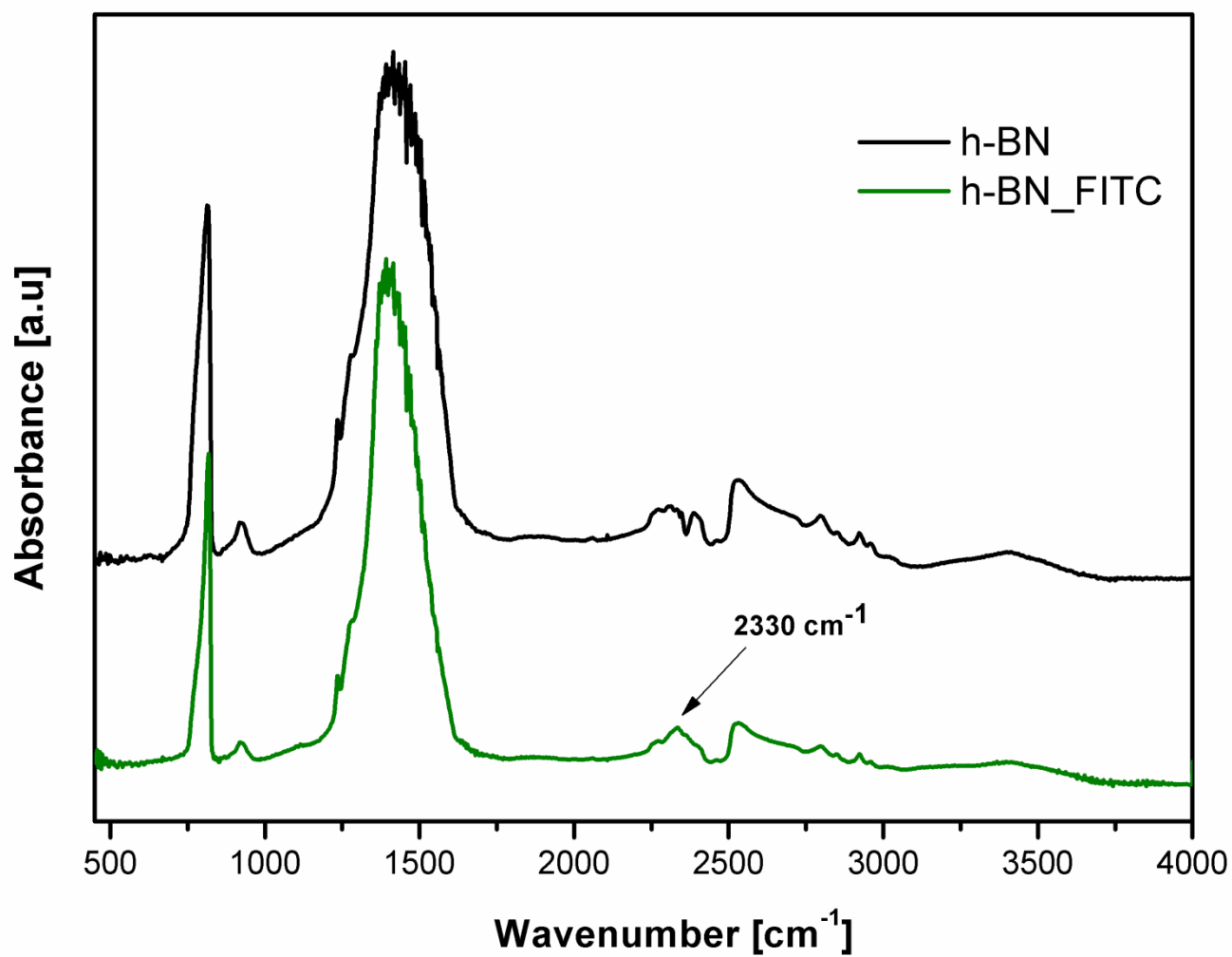
B



**Figure S3.** UV-Vis spectra of h-BN and h-BN\_AuNP nanocomposite (A) and stability of h-BN and Au nanoparticles connection (B).



**Figure S4.** The morphology of L929 and MCF-7 cell lines. The L929 control culture (A), cell culture after incubation with the h-BN\_AuNP nanocomposite (B), MCF-7 control culture (C) and MCF-7 cells after incubation with the h-BN\_AuNP nanocomposite (D).



**Figure S5.** FT-IR spectra of h-BN and h-BN-FITC.