Contribution ID: **1416** Type: **Poster (Non-Student) / affiche (non-étudiant)**

WITHDRAWN Study of Mesoporous Silica Hybrid Nanoparticles and their Biocompatibility

Tuesday 14 June 2016 19:36 (2 minutes)

Mesoporous silica nanoparticles (MSNs) have attracted a lot of attention recently due to their versatile applications in biomedical field. The origin of this is related to the nature of nanometer size pores which create a huge surface area to harbor drug molecules and act as potential carriers in biological systems. The charged surface of MSNs is also highly instrumental in inviting the other inorganic or organic species to produce inorganic –or organic –silica hybrid nanomaterials with even better drug delivery functionalities than MSNs. In the present work we have synthesized hybrid MSN with incorporation of Au and Ag nanoparticles and investigated their structure and properties using microscopy and dynamic light scattering. Biocompatibility of the hybrid nanoparticles has been investigated by performing hemolysis.

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Session Classification: DCMMP Poster Session with beer / Session d'affiches, avec bière DPMCM

Track Classification: Condensed Matter and Materials Physics / Physique de la matière condensée et matériaux (DCMMP-DPMCM)