

## Synthesis and functionalisation of superparamagnetic nano-rods towards the treatment of glioblastoma brain tumours

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The complete removal of brain tumours is impossible to be achieved by surgery alone due to the complex finger-like tentacles structure of the tumour cells and their migration away from the bulk of the tumour at the time of surgery. The prognosis for Glioblastoma is 15 months after diagnosis. Carnosine, ( $\beta$ -alanyl-L-histidine), a naturally occurring dipeptide has been shown effectiveness against *in vitro* cultured mitotic cells. A comprehensive theragnostic approaches are urgently required. Recently, iron oxide nanoparticles have been used as biocompatible vehicles in

preclinical and clinical trials. Multimodal approach of cancer therapy and imaging enlarged the traditional therapeutic window via using advanced designed iron oxide as a drug carrier and monitor by means of coating strategies.

### Speaker Biography

Kinana Habra is Pursuing her Ph.D. at Nottingham Trent University. Her main research area is Nanotechnology:

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