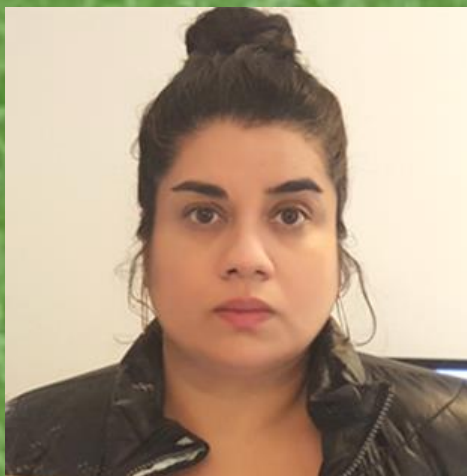




Queen Square Future of Neurosurgery Series 23/24

Tuesday 30 April | 18:00 BST
Wolfson Lecture Theatre

[Book here](#)



Tissue Engineering for Neural Cell Therapies

Neural injuries typically carry a poor prognosis with poor functional outcomes. Current therapies focus on limiting the initial damage, but no regenerative treatments are available. Advances in stem/precursor cell transplantation have shown promising outcomes but have key limitations that must be overcome to develop efficacious treatments. This talk will focus on the use of biomaterial-based approaches (including neurosurgical grade materials) to improve neural cell transplantation therapies, focusing on nanoparticle based genetic engineering and polymer hydrogels for encapsulated cell delivery. The talk will also discuss the development of reductionist, in vitro models of neurotrauma (including use of patient derived tissue) to Reduce, Replace and Refine animal experimentation.

Presented by Divya Maitreyi, Professor of Neural Tissue Engineering, Keele University

Enquiries: morium.ali@ucl.ac.uk

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