

PhD Studentship in the Area of Polymer Microarrays with Professor Mark Bradley.

A fully funded PhD studentship is available from September 2011

This is a tax-free stipend covering tuition fees and living expenses at the standard rate commencing at ca. £13,000 per year and for a duration of 3 years initially.

The project will involve the further development of the Bradley's group unique inkjet printing polymer microarray platform (see references below and www.combichem.co.uk). Specifically we will take this into new directions with the generation of arrays of 5000 imprinted polymers to allow the discovery of new polymers that capture parasites and to develop a new approach to polymer based drug release.

To apply please send a CV and contact details for 2 referees to mark.bradley@ed.ac.uk

Please see:

- (i). A microarray approach to the identification of polyurethanes for the isolation of human skeletal progenitor cells and augmentation of skeletal cell growth, *Biomaterials*, 2009, 30, 1045
- (ii). A cooperative polymer-DNA microarray approach to biomaterial investigation, *Lab Chip* 2009, 9, 397.
- (iii). Strategies for cell manipulation and skeletal tissue engineering using high-throughput polymer blend formulation and microarray techniques, *Biomaterials* 2010, 2216.
- (iv). Versatile biocompatible polymer hydrogels: scaffolds for cell growth, *Angew Chemie*, 2009, 48, 978.
- (v). Colonising new frontiers - microarrays reveal biofilm modulating polymers, *J Mater Chem*, 2011, 21, 96.