Mechanics of Life

Leverhulme Doctoral Scholarship Programme – Current Students

LEVERHULME TRUST

KING'S College LONDON

	Project Title	Supervisors
Nandini Aggarwal *Randall Centre for Cell & Molecular Biophysics* *Basic & Medical Biosciences* *Faculty of Life Sciences & Medicine*	Emergent cell-driven matrix mechanics	Dr Susan Cox & Professor Brian Stramer
Victor Diez Guardia *Centre for Craniofacial & Regenerative Biology* *Faculty of Dentistry, Oral & Craniofacial Sciences*	Mechanoregulation and cell-matrix interactions in human intestinal organoid-based models of Crohn's disease	Dr Eileen Gentleman & Dr Joana Neves
Ludovica Guetta *Centre for Craniofacial & Regenerative Biology* *Faculty of Dentistry, Oral & Craniofacial Sciences*	Star-Shaped: Investigating the mechanobiology and shape-function Dynamic of astrocytes using bioengineering, stem cells and optogenetics	Dr Andrea Serio & Professor Simon Ameer-Beg
Emma Hojmose Kromann *Centre for Craniofacial & Regenerative Biology* *Faculty of Dentistry, Oral & Craniofacial Sciences*	Dissecting the role of Innate Lymphoid Cells in beneficial and pathological intestinal matrix remodeling	Dr Joana Neves & Dr Eileen Gentleman
Owen James Harrison *Institute of Pharmaceutical Science* *School of Cancer & Pharmaceutical Sciences* *Faculty of Life Sciences & Medicine*	Image guided ultrasound and phase change nanodroplets to affect blood brain barrier and enhance efficacy of biotherapeutics in brain metastasis in breast cancer	Dr Maya Thanou & Dr Anthony Kong

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Tiffany Megan Giselle Baptiste *School of Biomedical Engineering & Imaging Sciences* *Faculty of Life Sciences & Medicine*	Testing the role of atrial stiffness in fibrosis generation in the human atrium	Professor Steven Niederer & Dr Steven Williams
Leonel Cardozo De Menezes E Souza *School of Basic & Medical Biosciences* *Faculty of Life Sciences & Medicine*	Understanding the dynamic regulation of extracellular matrix structure and mechanics during embryogenesis	Professor Brian Stramer & Dr Susan Cox
Samuel McLennan *Centre for Craniofacial & Regenerative Biology* *Faculty of Dentistry, Oral & Craniofacial Sciences*	How do nanoneedles penetrate cells?	Dr Ciro Chiappini & Professor Mark Wallace
Leila Mouhib *School of Basic & Medical Biosciences* *Faculty of Life Sciences & Medicine*	Mechanochemical control of cancer cell genetic instability	Professor Maddy Parsons & Professor Tony Ng