

## **Prof Matt Dalby**

After a PhD at Queen Mary University of London on osteoblast response to bioactive composites I moved to Glasgow to study cell-nanoscale interactions. In 2003 I became an independent researcher securing a BBSRC David Phillips Fellowship to explore mesenchymal stem cell response to nanotopography. Appointed to a lectureship in 2008 and a Readership in 2010, I became Professor of Cell Engineering at the University of Glasgow in 2014. I am currently co-Director of the Centre for the Cellular Microenvironment and Director for innovation for Molecular Biosciences at the University of Glasgow. I hold grants from EPSRC, MRC, BBSRC, EU and The Sir Bobby Charlton Foundation ranging from fundamental to translational research. I am Director of the EPSRC-SFI lifETIME centre for doctoral training that will train more than 80 PhD students in the UK and Ireland with science and leadership skills in non-animal technologies for Phrama drug discovery and regenerative medicine.

My research has focussed on developing insight into MSC differentiation and self-renewal using materials and mechanotransductive cues, making contributions in journals such as Nature Materials, Nature Biomedical Engineering, Advanced Materials, Chem, Science Advances etc (>200 papers). More recently I have become interested in using materials to find activity metabolites that can be used to control MSC phenotype. As well as basic science, I am interested in translational science and have been involved in veterinary bone regeneration trials and am working now towards a human bone cell-therapy trail.

In 2016 I was elected a Fellow of the Royal Society of Edinburgh and have won a number of awards – most recently the Biochemical Society Industrial-Academic Collaboration Award in 2020.