

# Stanford

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## Dilip Thomas

Postdoctoral Research Fellow, Cardiovascular Institute

### Bio

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#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, SYIS-EU Council, Tissue Engineering and Regenerative Medicine Society (TERMIS) (2017 - present)
- Member, American Heart Association (AHA) (2017 - present)
- Member, Royal Society of Biology (RSB) (2016 - present)
- Chair-Elect, SYIS-EU Council, Tissue Engineering and Regenerative Medicine Society (TERMIS) (2015 - 2017)
- Member, British Society for Matrix Biology (BSMB) (2012 - present)
- Member, European Society for Biomaterials (ESB) (2011 - present)
- Associate Member, Institution of Chemical Engineers (IChemE) (2010 - present)

#### PROFESSIONAL EDUCATION

- PhD, National University of Ireland Galway , Regenerative Medicine (2017)
- MSc, University College London , Biochemical Engineering (2010)
- BSc, Mumbai University , Biotechnology (2009)

#### LINKS

- LinkedIn: <https://www.linkedin.com/in/dilip-thomas-phd-69b73413/>
- ResearchGate: [https://www.researchgate.net/profile/Dilip\\_Thomas](https://www.researchgate.net/profile/Dilip_Thomas)
- Google Scholar: <https://scholar.google.com/citations?user=sIPyUeEAAAAJ&hl=en&oi=ao>

### Publications

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#### PUBLICATIONS

- **The Functional Response of Mesenchymal Stem Cells to Electron-Beam Patterned Elastomeric Surfaces Presenting Micrometer to Nanoscale Heterogeneous Rigidity.** *Advanced materials (Deerfield Beach, Fla.)*  
Biggs, M. J., Fernandez, M., Thomas, D., Cooper, R., Palma, M., Liao, J., Fazio, T., Dahlberg, C., Wheadon, H., Pallipurath, A., Pandit, A., Kysar, J., Wind, et al  
2017
- **Stimulation of 3D Osteogenesis by Mesenchymal Stem Cells Using a Nanovibrational Bioreactor** *Nature Biomedical Engineering*  
Tsimbouri, P. M., Childs, P. G., Pemberton, G. D., Yang, J., Jayawarna, V., Orapiriyakul, W., Burgess, K., González-García, C., Blackburn, G., Thomas, D., Vallejo-Giraldo, C., Biggs, M. ., Curtis, et al  
2017
- **Towards Customised Extracellular Niche Engineering: Progress in Cell Entrapment Technologies** *Advanced Materials*  
Thomas, D., O'Brien, T., Pandit, A.

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2017

- **Scaffold and scaffold-free self-assembled systems in regenerative medicine** *BIOTECHNOLOGY AND BIOENGINEERING*  
Thomas, D., Gaspar, D., Sorushanova, A., Milcovich, G., Spanoudes, K., Mullen, A. M., O'Brien, T., Pandit, A., Zeugolis, D. I.  
2016; 113 (6): 1155-1163
- **Variability in Endogenous Perfusion Recovery of Immunocompromised Mouse Models of Limb Ischemia** *TISSUE ENGINEERING PART C-METHODS*  
Thomas, D., Thirumaran, A., Mallard, B., Chen, X., Browne, S., Wheatley, A. M., O'Brien, T., Pandit, A.  
2016; 22 (4): 370-381
- **Co-transfection of decorin and interleukin-10 modulates pro-fibrotic extracellular matrix gene expression in human tenocyte culture** *SCIENTIFIC REPORTS*  
Abbah, S. A., Thomas, D., Browne, S., O'Brien, T., Pandit, A., Zeugolis, D. I.  
2016; 6
- **An injectable elastin-based gene delivery platform for dose-dependent modulation of angiogenesis and inflammation for critical limb ischemia** *BIOMATERIALS*  
Dash, B. C., Thomas, D., Monaghan, M., Carroll, O., Chen, X., Woodhouse, K., O'Brien, T., Pandit, A.  
2015; 65: 126-139
- **Three-Dimensional Microgel Platform for the Production of Cell Factories Tailored for the Nucleus Pulposus** *BIOCONJUGATE CHEMISTRY*  
Fontana, G., Srivastava, A., Thomas, D., Lalor, P., Dockery, P., Pandit, A.  
2015; 26 (7): 1297-1306
- **Microgel Microenvironment Primes Adipose-Derived Stem Cells Towards an NP Cells-Like Phenotype** *ADVANCED HEALTHCARE MATERIALS*  
Fontana, G., Thomas, D., Collin, E., Pandit, A.  
2014; 3 (12): 2012-2022
- **A shape-controlled tuneable microgel platform to modulate angiogenic paracrine responses in stem cells** *BIOMATERIALS*  
Thomas, D., Fontana, G., Chen, X., Sanz-Nogues, C., Zeugolis, D. I., Dockery, P., O'Brien, T., Pandit, A.  
2014; 35 (31): 8757-8766
- **Stem Cell Microencapsulation for Therapeutic Angiogenesis** *Biomaterials for Stem Cell Therapy State of Art and Vision for the Future*  
Sanz Nogués, C., Thomas, D., Pandit, A., O'Brien, T.  
CRC Press.2013: 386-424