

Bioprinting for toxicology and disease models

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Abstract:

For many conditions current in vitro models are limited in terms of their predictive capability for assessing drug delivery. 3D tissue models can offer an approach which is closer to the physiological environment, and bioprinting and biofabrication techniques offer scalable approaches to the fabrication of 3D tissue models. This presentation will outline key techniques, exemplar applications, and challenges.

Short Bio:

Kenny Dalgarno is Sir James Woodeson Professor of Manufacturing Engineering at Newcastle University. His research focusses on the processing of biomaterials and biological materials using 3D printing and bioprinting techniques, with applications in medical devices, tissue engineering and regenerative medicine.