

Cell-friendly 3D Bioprinting for precision medicine and drug discovery

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Biomimetic 3D models with tunable mechanical properties, are highly desired to recapitulate the native tissue environment. The “3D bioprinting revolution” has made possible to create reproducible 3D models, however we are only scraping the surface when it comes to their application in drug discovery and tumor biology research. We will explore specific applications where 3D bioprinted models could recapitulate cells morphology, migratory patterns, response to drugs, as well as native tissue environment with heterogeneous stiffness.