

ADVANCED HEALTHCARE MATERIALS

BIOMIMETIC MICROFLUIDIC NETWORKS

Slater and co-workers demonstrate fabrication of three-dimensional, biomimetic microfluidic networks embedded in poly(ethylene glycol) diacrylate hydrogels by combining laser-based degradation with image-guided laser control on page 2153. Generation of high-density, capillary-like microfluidic networks that recapitulate the architecture of in vivo microvasculature as well as the ability to induce internetwork transport between two independent microfluidic systems is presented. Recapitulating in vivo-like transport using biomimetic microfluidic networks may prove advantageous in fabricating advanced in vitro tissue models.