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MICROFLUIDICS

Surface-textured polymer fibers are introduced on page 4569 by M. Bayindir and co-workers as a new platform for the fabrication of disposable microfluidic devices. Well-ordered, perfectly aligned microchannels on polymer fibers are obtained using thermal fiber drawing. Spontaneous capillary flow along three-dimensional fiber geometries, switch systems that allow precise control on fluid flow, and a proof of concept colorimetric protein assay are presented.