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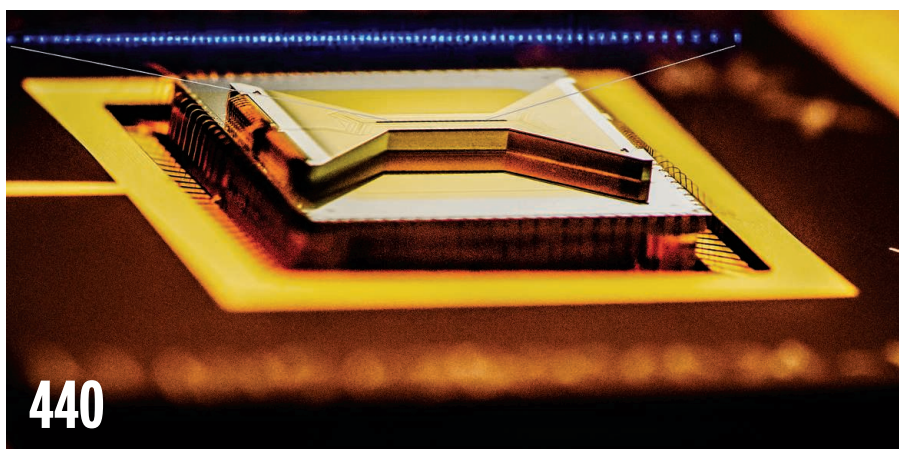
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ON THE COVER



Focus-stacked photograph of a 3D printed multivascular hydrogel containing a bioinspired alveolar air sac (width at bottom: $\sim 4.5 \text{ mm}$) surrounded by a network of blood vessels (diameter: ≥ 0.3

mm) mimicking distal lung architecture. The ventilated, distending air sac provides oxygen to human red blood cells that flow through the ensheathing vasculature. A materials innovation provides a means to build and study multivascular topology within engineered tissues. See page 458. For more on the process behind the cover image, see <https://scim.ag/2ZDHC6>. *Image: Dan Sazer, Jeff Fitlow, and Jordan Miller*

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