## **Supplementary Data**





SUPPLEMENTARY FIG. S1. Hollow fiber insertion. After subcutaneous  $500\,\mu\text{L}$  injection of Matrigel, a 14G needle is threaded such that the fiber extends through the gel plug and both ends protrude out through the skin. Specifically, a 14G needle is used as a conduit for the cellulose hollow fiber (left). Once the fiber is inserted into the 14G needle, the needle is removed, leaving the hollow fiber embedded in the Matrigel plug (right).