Supporting Information

**Flexible thread-based electrochemical sensor for oxygen monitoring**

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Figure S1. Linear voltage scan of wire type sensor from 0 to 1V for nitrogen and air saturated PBS. Scan rate: 20 mV/s.

Figure S2. Anode and cathode thread after electrode reactions.
Figure S3. Calibration curve of tip type sensor with anode using the tip design.

Figure S4. Current response of wire sensor during 80 min of running in air-saturated PBS.
Figure S5. Oxygen concentration gradient in the tissue model measured by commercial oxygen probe.