Supporting Information

Feedback control over plasma drug concentration achieves rapid and accurate control over solid-tissue drug concentrations

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Table S1. Rat identification and characteristics.			
Rat Identifier	**Weight (g)**	**Sex**	**Total drug volume administered (µL)**
Rat 1	569	M	461
Rat 2	635	M	756
Rat 3	598	M	688
Rat 4	469	M	1000
Rat 5	483	M	1000

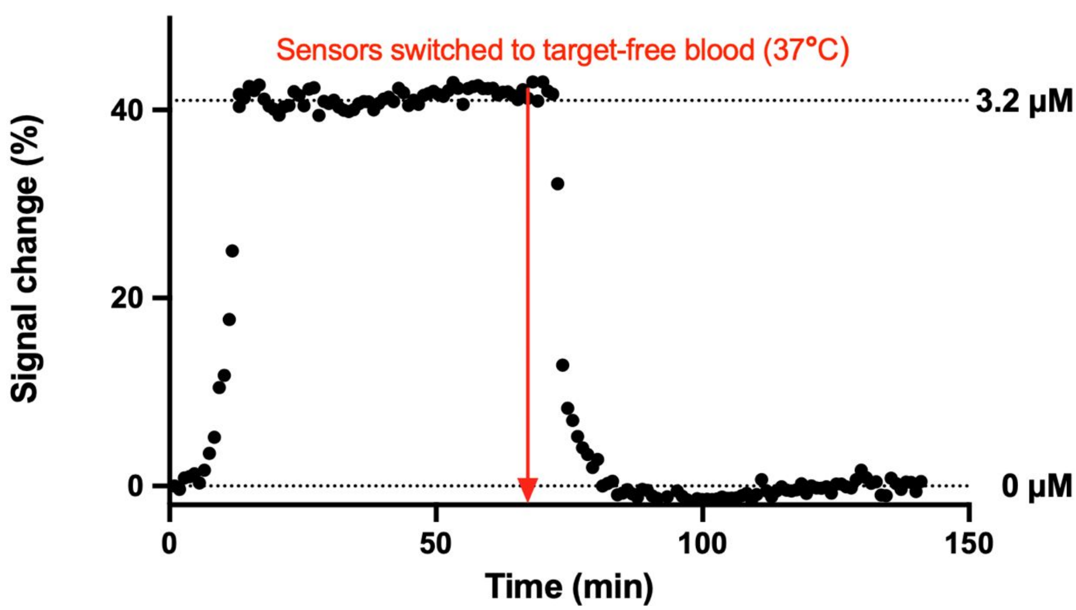

Figure S1. The doxorubicin sensor remains rapidly reversible even at concentrations above those maintained in feedback-control experiments. Here we challenged gold wire sensors (n=8) with constant, 3.2 µM doxorubicin in bovine blood at 37°C for 60 min. We then moved the sensors to drug-free, 37˚C bovine blood.

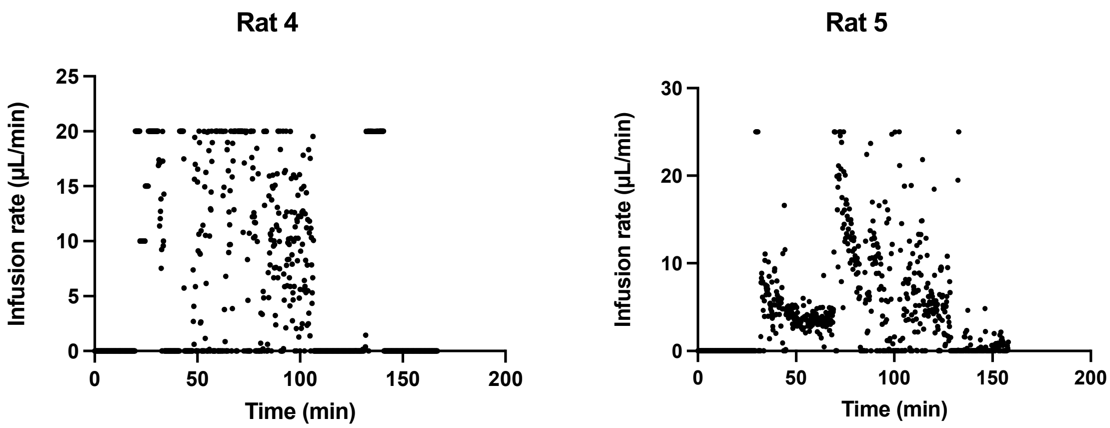

Figure S2. Shown here are the injection time courses (infusion rate in µL/min) used to reach and maintain constant plasma doxorubicin concentrations for Rats 4 and 5 (Fig. 4).