SUPPLEMENTARY MATERIAL FOR:

Transparent polymeric cell culture chip with integrated temperature control and uniform media perfusion

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A  Electronic circuit for connecting the heater to an external power source to the U12 LabJack USB controller.

B  Electronic circuit for connecting 10 kΩ thermistor to the U12 LabJack USB controller for temperature logging.

Supplementary Figure S1. Diagrams of electronic circuits used to interface the U12 LabJack USB data acquisition and control card with (A) the heater and (B) the thermistor.

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Supplementary Figure S2. FEMLAB modeling of the flow within the chambers containing three inlet and outlet channels. The left-hand image shows the flow distribution of the perfusion media entering the chamber via the three inlet apertures. The right-hand image shows the flow distribution of the media entering the chamber when an equalization barrier is in place. Below each image are plots of flow velocity profiles 2 mm away from the cell chamber wall (marked by the red lines in the respective images). These plots demonstrate how the flow in the chambers is affected if some of the inlet channels get clogged.