Supplementary Figure S2. Image analysis procedure.

Labels within the figure:

1. Raw video Crop
2. Sample selection (5/channel)
3. Vessel edge detection — Normalized gel area selection — $I(t)$, I_0
4. Average intensity in the gel region vs time plot I(t)

   A01-2.avi-0-0
   681.24x9.03 (613x355); 8-bit; 213K
   Mean / Slice
   List | Data » | More » | Live

Excel treatment and calculations

5. $$P_d = \frac{d}{4} \times \frac{1}{I_0} \left(\frac{\partial I(t)}{\partial t} \right)_0$$