

Figure S1 Correlation of optical and electrical diameter for untreated HL60 cells at (a) 10  $\mu\text{l}/\text{min}$  and (b) 15  $\mu\text{l}/\text{min}$ . Data was obtained for the same cells as the correlation plot in the text (Figure 3c) but with different flow rates.

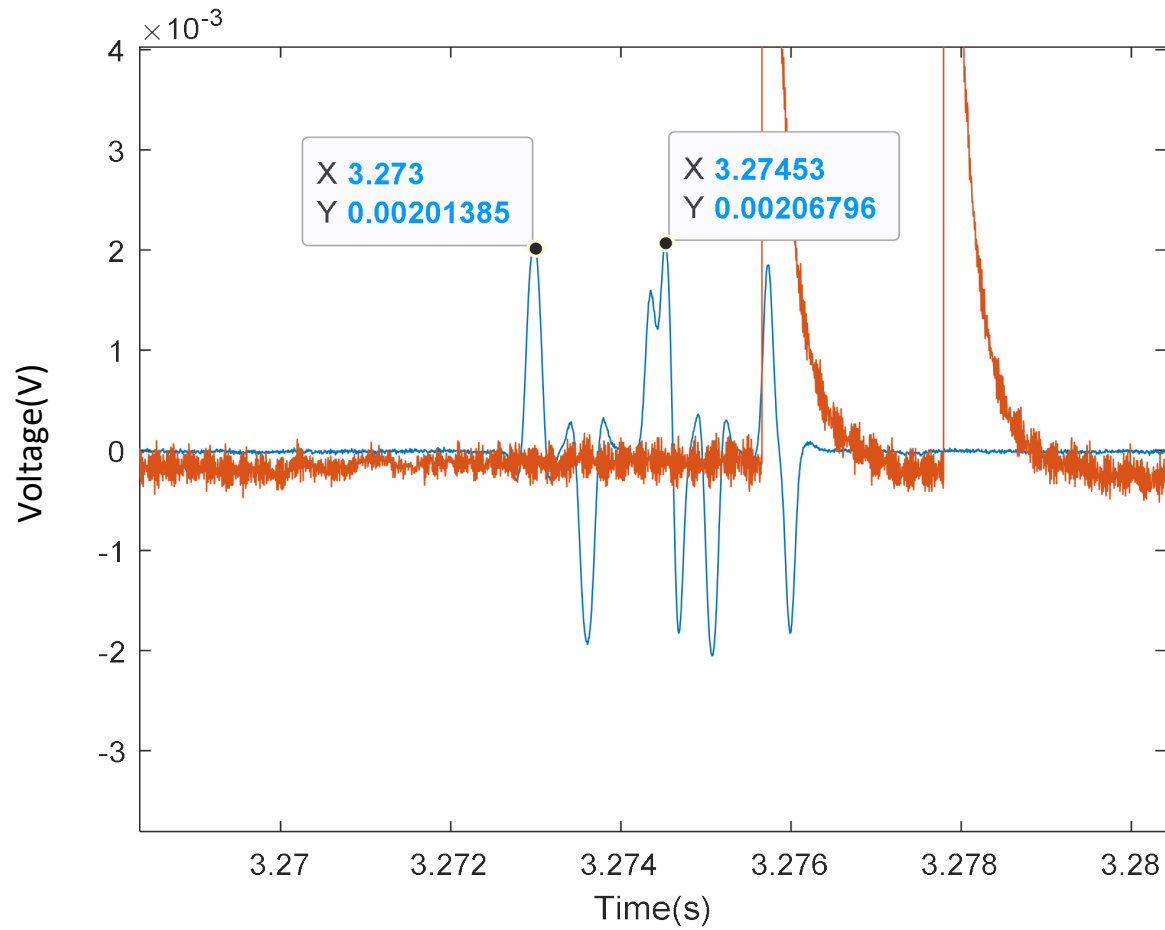


Figure S2 Example of impedance coincidence with corresponding trigger signal. Blue trace shows the impedance signal (time stamps in the box) and the orange the two trigger signals. The time interval between these two events is 1.53 ms.