

**Table 1** Osmotic challenge: measured parameters in different cell types.

	$V_0$ ( $\mu\text{m}^3$ )	$\Delta V$ ( $\mu\text{m}^3$ )	$(\Delta V + V_0)/V_0$	$\Pi_i/\Pi_o$	$A_0$ ( $\mu\text{m}^2$ )	$\tau$ (s)	$P_f$ ( $10^{-3}$ cm/s)
CHO	$1660 \pm 669$	$718 \pm 294$	$1.4341 \pm 0.065$	1.452	$747 \pm 340$	$33.71 \pm 5.6$	$1.65 \pm 0.318$
HEK	$1996 \pm 562$	$1437 \pm 377$	$1.739 \pm 0.16$	1.667	$676 \pm 153$	$34.6 \pm 10.9$	$3.04 \pm 0.87$
Neuron	$1671 \pm 1116$	$609 \pm 429$	$1.376 \pm 0.09$	1.452	$475 \pm 226$	$17.8 \pm 8.42$	$4.69 \pm 2.89$
Astrocyte	$861 \pm 324$	$347 \pm 132$	$1.463 \pm 0.319$	1.452	$475 \pm 137$	$6.44 \pm 2.78$	$7.64 \pm 3.54$
RBC	$95 \pm 48$	$35 \pm 11$	$1.457 \pm 0.277$	1.553	$129 \pm 44$	$3.62 \pm 2.05$	$5.2 \pm 2.9$
RBC/HgCl <sub>2</sub>	$101 \pm 49$	$33 \pm 14$	$1.41 \pm 0.30$	1.553	$135 \pm 45$	$11.17 \pm 4.8$	$1.5 \pm 1.2$