Osmotic responses of hAQP1-expressing oocytes

Time course of relative volume obtained using the whole oocyte (WO) and the emptied-out oocyte (EOO) methods. Filled symbols denote hAQP1-expressing oocytes; open symbols denote water-injected oocytes. In all cases the hypotonic gradient (100 mosmol.Kg\textsubscript{w}^{-1}) was created by dilution of medium. The calculated $P_f$ values ($\times10^{-4}$) were: 36 ± 5 cm.s$^{-1}$ for hAQP1 (WO, n=7); 35 ± 8 cm.s$^{-1}$ for hAQP1 (EOO, n=4); 3 ± 1 cm.s$^{-1}$ for Water (WO, n=3) and 4 ± 2 cm.s$^{-1}$ for Water (EOO, n=4). These results demonstrate that $P_f$ measurements with the classical method and the emptied-out technique are equivalent for hAQP1 expressed in Xenopus oocytes.