CORRIGENDUM

doi:10.1038/nature13631

Corrigendum: Direct recording and molecular identification of the calcium channel of primary cilia

Paul G. DeCaen, Markus Delling, Thuy N. Vien & David E. Clapham

Nature 504, 315–318 (2013); doi:10.1038/nature12832

In this Letter, Fig. 1c and e contained errors, which are corrected in Fig. 1 of this Corrigendum. In the key of Fig. 1c, the extracellular conditions for the Ba²⁺ and NMDG currents were wrongly listed: the purple trace should be BaCl₂ (not RbCl) and the grey trace should be NMDG (not BaCl₂). This correction accurately reflects the selectivity of the channel as stated on page 315, which should have cited Fig. 1c, rather than Fig. 1d, as follows: “The outwardly rectifying current was cation-non-selective (Fig. 1c) with relative permeabilities of Ca²⁺ ≈ Ba²⁺ > Na⁺ ≈ K⁺ > NMDG”. In Fig. 1e, the channel density for the primary cilia (red bar labelled ‘PKD1L1/2L1’) was wrong, owing to an incorrect estimation of open probability for the channel (0.015 instead of 0.067). This correction reduces the estimated channel density to a value (29 channels per μm²) that is about 4.5 times smaller than the value we initially reported in Fig. 1 and on page 315 (128 channels per μm²). This error does not alter the key findings of Fig. 1e (that the cilia are densely populated with PKD1L1/2L1 channels) or the main conclusions of the Letter.

Figure 1 | This figure shows the corrected Fig. 1c and e of the original Letter.