Corrections:

Yifat Guy, Mats Sandberg, and Stephen G. Weber. 2008. Determination of ζ-potential in rat organotypic hippocampal cultures. *Biophys. J.* 94:4561–4569.

The ξ symbol in equations 3, 4, and 7 should be the ζ symbol. The corrected equations read:

$$\nu_{eo} = -\frac{\varepsilon\zeta}{\eta} E = \mu_{eo}E \tag{3}$$

$$\mu_{obs} = \frac{\nu_{obs}}{E} = \left(\frac{1}{\lambda_e^2}\right)\left(\mu_{ep} - \frac{\varepsilon\zeta}{\eta}\right) = \left(\frac{1}{\lambda_e^2}\right)(\mu_{ep} + \mu_{eo}) \tag{4}$$

$$\mu_{eo} = \frac{\left(\dfrac{\nu_{obs1}}{\nu_{obs2}}\right)\mu_{ep2} - \mu_{ep1}}{1 - \left(\dfrac{\nu_{obs1}}{\nu_{obs2}}\right)} = -\frac{\varepsilon\zeta}{\eta} \tag{7}$$

Yangrong Zhang and William O. Hancock. 2004. The two motor domains of KIF3A/B coordinate for processive motility and move at different speeds. *Biophys. J.* 87:1795–1804.

In our article we reported that the chimaeric motors KIF3A/A and KIF3B/B moved at different speeds in the microtubule gliding assay. During subsequent manipulations of the KIF3A and KIF3B genes, we discovered point mutations that had been introduced by previous cloning steps. Four point mutations were uncovered in the KIF3A gene, three in the head domain (Gly[121] to Glu[121], Ala[210] to Val[210], and Pro[296] to Ser[296]), and one in the coiled-coil domain (Lys[404] to Arg[404]). Two mutations were found in the KIF3B gene, one (Ala[34] to Val[34]) in the head domain, and the other (Ala[465] to Val[465]) in the coiled-coil domain. When these mutations were corrected, the microtubule gliding velocities of KIF3A/B, KIF3A/A, and KIF3B/B were 574 ± 32 nm/s, 566 ± 27 nm/s, and 549 ± 14 nm/s, respectively. Thus, in the sequence-corrected proteins, differences in the gliding velocities were negligible. Although the processivity results and the analysis remain valid, the reported velocity difference resulted from these mutations and not from different kinetics of the two motor domains. We apologize for this error and regret any inconvenience it may have caused.