Corrections

Yufang Hu, Kieche Meleson, and Jacob Israelachvili. 2006. Thermodynamic equilibrium of domains in a two-component Langmuir monolayer. *Biophys. J.* 91:444–453.

The first sentence of the Abstract contained an extraneous word because of an editing error. Here is the corrected Abstract:

This article outlines the results from a combined experimental and theoretical study on the properties of circular domains in a mixed Langmuir monolayer at thermodynamic equilibrium. The mixed monolayer consisted of a binary mixture of dimyristoyl-phosphatidyl-choline and dihydrocholesterol. A long-term fluorescence microscopy study of these domains was carried out over the course of ~60 h. Image analysis of the domains over time revealed that the domains ripened slowly with an increase in mean domain radius and a decrease in domain number density. At the end of the measurement, the domains remained polydisperse, and true thermodynamic equilibrium was not reached. Theoretically, collective thermodynamic equilibrium properties such as mean domain size and size distribution were calculated by combining micelle self-assembly theory and the ''equivalent dipole'' model for the self-energy of two-dimensional domains. The calculations predicted existence of finite-sized circular domains at equilibrium. This suggests that equilibrium circular monolayer domains of single- or multicomponent lipids with a finite size distribution should form only at very limited experimental conditions. Both the predicted mean domain size and size distribution are strongly affected by line tension and dipole moment density difference. A comparison between the theoretical and experimental results is made.

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R. V. Iancu, S. W. Jones, and R. D. Harvey. 2007. Compartmentation of cAMP signaling in cardiac myocytes: a computational study. *Biophys. J.* 92:3317–3331.

The following corrections are noted:

1. Page 3318, under ''Cell size and composition'', on line 5, ''radius = 10 μm'' should be ''radius = 11 μm''.
2. Page 3319, under ''*Isoproterenol/β_1 adrenergic receptor/G_s module*'', the third equation ''$L_{Iso}R_{\beta 1}G_s = (L_{Iso} \times R_{\beta 1free} \times G_{sfree})/(K_H/K_L \times K_C)$'' should be ''$L_{Iso}R_{\beta 1}G_s = (L_{Iso} \times R_{\beta 1free} \times G_{sfree})/(K_H \times K_C)$''.
3. Page 3319, under ''*Acetylcholine/M_2 muscarinic receptor/G_i module*'', the third equation ''$L_{Ach}R_{M2}G_i = (L_{Ach} \times R_{M2free} \times G_{ifree})/(K_H/K_L \times K_C)$'' should be ''$L_{Ach}R_{M2}G_i = (L_{Ach} \times R_{M2free} \times G_{ifree})/(K_H \times K_C)$''.
4. Page 3327, under ''Table 4 G-protein activation module'', in row 5, ''activation rate constant for LRG_i complexes'' should be ''activation rate constant for RG_i complexes''; in row 6, ''activation rate constant for RG_i complexes'' should be ''activation rate constant for LRG_i complexes''; in row 7, ''activation rate constant for LRG_s complexes'' should be ''activation rate constant for RG_s complexes''; and in row 8, ''activation rate constant for RG_s complexes'' should be ''activation rate constant for LRG_s complexes''.
5. Page 3327, under ''Table 6 Adenylyl cyclase 4/7'', in row 2, ''0.379×10^{-3}'' should be ''0.136''.

All equations were implemented correctly in the numerical calculations.

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Andrew Resnick and Ulrich Hopfer. 2007. Force-response considerations in ciliary mechanosensation. *Biophys. J.* 2007. 93:1380–1390.

Equation 4 should be written as

$$f_{cyl} = \frac{4\pi\mu U}{\frac{1}{2} - \gamma - \ln\left[\frac{2a\rho U}{8\mu}\right]} \quad \text{and}$$

Eq. 5 should be written as $Re = 2a\ \rho U/\mu$ to be consistent.

We have recalculated the relevant results and there is no material difference. That is, the drag force calculation for our experiment is recalculated to 5.3 fN rather than 5.2 fN, with a similar change in magnitudes for the data in Fig. 8.

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