

Corrections

Chao, A., Jost, L., Hsieh, T.C., Ma, K. H., Sherwin, W. B. and Rollins, L. A. (2015). Expected Shannon entropy and Shannon differentiation between subpopulations for neutral genes under finite island model. *PLoS One*10(6):e0125471

There are two minor typos in the main text and in S4 Appendix S4 (all R codes and conclusions are not affected); some plots were misplaced due to pasting errors, but all patterns are generally unchanged.

(1) Typos in Equation (8A) (8B) (Page 7 in main text)

Original equations:

$${}^2H_T = 1 - \frac{1}{\pi} \int_0^\pi \left(\frac{m^*/n\mu}{(1-\cos t)} + \frac{1}{n} \right) \left(4N(1-\cos t)\mu + \frac{m^*/n\mu}{(1-\cos t)} + 1 \right)^{-1} dt \quad (8A)$$

$${}^2H_S = 1 - \frac{1}{\pi} \int_0^\pi \left(\frac{m^*/n\mu}{(1-\cos t)} + 1 \right) \left(4N(1-\cos t)\mu + \frac{m^*/n\mu}{(1-\cos t)} + 1 \right)^{-1} dt \quad (8B)$$

Corrected:

$${}^2H_T = 1 - \frac{1}{\pi} \int_0^\pi \left(\frac{m^*/n\mu}{(1-\cos t)} + \frac{1}{n} \right) \left(4N(1-\cos t)\mu + \frac{m^*/n\mu}{(1-\cos t)} + 1 + 4Nm^* \right)^{-1} dt \quad (8A)$$

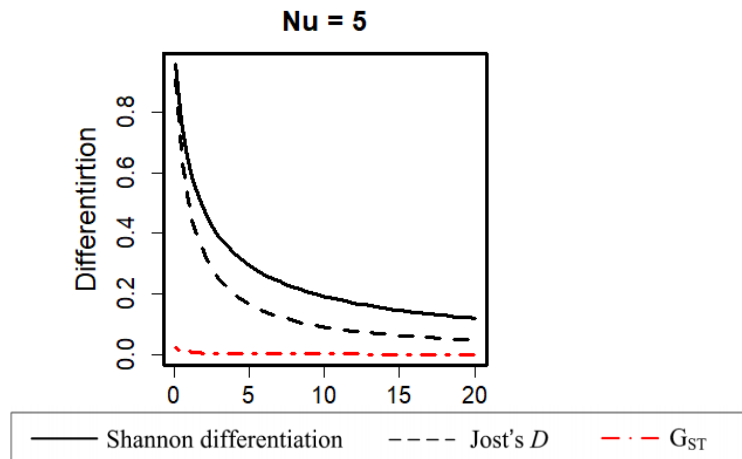
$${}^2H_S = 1 - \frac{1}{\pi} \int_0^\pi \left(\frac{m^*/n\mu}{(1-\cos t)} + 1 \right) \left(4N(1-\cos t)\mu + \frac{m^*/n\mu}{(1-\cos t)} + 1 + 4Nm^* \right)^{-1} dt \quad (8B)$$

(2) Typos in S4 Appendix:

Eq. (D1), when $f_1 \neq 0, f_2 = 0$, change A to $2/[(z-1)(f_1-1)+2]$.

Line 5 after Eq. (D4): change the equation $\tilde{p}_{ij} = \hat{C}_j \cdot \sum_{j=1}^n X_{ij}/z_j$ to $\tilde{p}_{ij} = \hat{C}_j \cdot X_{ij}/z_j$.

(3). Misplaced plot in Fig. 1 (page 10): the plot in row 3 and column 3 was misplaced. The correct plot should be



(4) Misplaced plots in Fig. 2 (page 11): replace the original plots by the following correct ones:

