

Erratum:

The effects of linkage and gene flow on local adaptation: A two-locus continent-island model (Theor. Popul. Biol. 80, 272-288, 2011)

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Equations (4.25), (4.26), and (4.28) in Bürger and Akerman (2011) contain errors which we correct below. We point out that neither the main result of that section, formula (4.30) for the effective migration rate, nor any other results in the paper are affected by these errors.

Instead of (4.25), the allele frequency at the neutral locus evolves according to

$$\dot{n} = \alpha D_{AN} + \beta D_{NB} + m(n_c - n). \quad (1.1)$$

Instead of (4.26), the equations for the rate of change of the linkage disequilibria involving the neutral locus should read

$$\dot{D}_{AN} = -\rho_1 D_{AN} + \alpha(1 - 2p)D_{AN} + \beta D_{ANB} - mD_{AN} - mp(n_c - n), \quad (1.2a)$$

$$\dot{D}_{NB} = -\rho_2 D_{NB} + \beta(1 - 2q)D_{NB} + \alpha D_{ANB} - mD_{NB} - mq(n_c - n), \quad (1.2b)$$

$$\begin{aligned} \dot{D}_{ANB} = & -\rho D_{ANB} + [\alpha(1 - 2p) + \beta(1 - 2q)]D_{ANB} - 2D_{AB}(\alpha D_{AN} + \beta D_{NB}) \\ & - m(D_{ANB} - pD_{NB} - qD_{AN}) + m(pq - D_{AB})(n_c - n). \end{aligned} \quad (1.2c)$$

Finally, the fourth column, $(m, \beta - m, \alpha - m, -\alpha - \beta - \rho + \frac{2m(\alpha + \beta + 2\rho)}{\alpha + \beta + \rho})$, of the Jacobian matrix J_N given in equation (4.28) must be replaced by $(0, \beta, \alpha, -\alpha - \beta - \rho + \frac{m(\alpha + \beta + 3\rho)}{\alpha + \beta + \rho})$.

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