





Publisher Correction: Modeling the ecology of parasitic plasmids

Jaime G. Lopez · Mohamed S. Donia  · Ned S. Wingreen 

Published online: 30 June 2021

© The Author(s) 2021. This article is published with open access

Correction to: *The ISME Journal*

<https://doi.org/10.1038/s41396-021-00954-6>

Owing to errors in production, the original version of this article unfortunately contained mistakes. The equations were not properly labeled:

$$\frac{d\rho}{dt} = \alpha C\rho - \gamma_c \rho \rho_p + p_\ell(1 - \Delta)\alpha C\rho_p - \delta\rho, \quad (1)$$

$$\frac{d\rho_p}{dt} = (1 - \Delta)\alpha C\rho_p + \gamma_c \rho \rho_p - p_\ell(1 - \Delta)\alpha C\rho_p - \delta\rho_p, \quad (2)$$

$$\frac{dC}{dt} = S - \alpha C\rho - (1 - \Delta)\alpha C\rho_p. \quad (3)$$

$$\gamma_c \rho^* > \delta\Delta + \delta p_\ell(1 - \Delta), \quad (4)$$

$$\frac{d\rho}{dt} = \alpha C\rho - \gamma_v \rho P + p_\ell(1 - \Delta)\alpha C\rho_p - \delta\rho, \quad (5)$$

$$\frac{d\rho_p}{dt} = (1 - \Delta)\alpha C\rho_p + \gamma_v \rho P - p_\ell(1 - \Delta)\alpha C\rho_p - \delta\rho_p, \quad (6)$$

$$\frac{dC}{dt} = S - \alpha C\rho - (1 - \Delta)\alpha C\rho_p, \quad (7)$$

$$\frac{dP}{dt} = n_{\text{eff}}\delta\rho_p - \gamma_v \rho P - \delta_p P. \quad (8)$$

$$\gamma_v \rho^* > \delta_p \left(\frac{\Delta + p_\ell(1 - \Delta)}{n_{\text{eff}} - \Delta - p_\ell(1 - \Delta)} \right). \quad (9)$$

$$p_i = \frac{n_0 w_0 (1 - q)}{\sum_{j=0}^{\infty} n_j w_j} \quad i = 0, \quad (10)$$

$$p_i = \frac{n_i w_i (1 - q) + n_{i-1} w_{i-1} q}{\sum_{j=0}^{\infty} n_j w_j} \quad i > 0. \quad (11)$$

The original article has been corrected.

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.