ERRATA

In the paper "Bifurcation Analysis of Nonlinear Reaction-Diffusion Equations—I", J. F. G. Auchmuty and G. Nicolis, *Bulletin of Mathematical Biology*, **37**, 1975, 323–365, the following corrections should be made. None of them affect the qualitative conclusions or substantially change the analysis of the problem.

On page 326, the coefficient of x^2 in equation (2.4) should be $B(r)A_0^{-1}$, and on page 345, in the equations for a_1 and a_2 , the factors B_m/A_0^2 should be $B_m A^{-1}$.

On page 337, in the equation for x, the coefficient of x should be $B-1-\gamma A_0^2$ not $[(2\gamma^2-1)B-\gamma A_0^2-1]$. Hence equation (3.7) should read

$$z(\alpha, r) = \left(1 - \frac{B}{\gamma A_0^2}\right) a(\alpha, r).$$

On page 347, in the equation for $\frac{1}{2}\gamma_2 c_1$, the last two terms should be

$$-2(B_mA^{-1}c_1+Ac_2)\sum_{l \text{ odd}}\frac{4m^2P_l}{l\pi(4m^2-l^2)}-2Ac_1\sum_{l \text{ odd}}\frac{4m^2q_l}{l\pi(4m^2-l^2)}$$

These series may be summed in a manner analogous to those evaluated in the appendix. The next two expressions must be changed but the statement about $(D_1/D_2)^{\frac{1}{2}}f(A, D_1/D_2)$ holds with quadratic replaced by quartic.

The equations for b_l on page 349 should read

$$b_{l} = \begin{cases} 0 & \text{if } l \text{ is even} \\ 8m^{2}\alpha[l\pi(4m^{2}-l^{2})]^{-1} & \text{if } l \text{ is odd, } l \neq m \\ \gamma_{1}c_{1}+8\alpha(3l\pi)^{-1} & \text{if } l = m. \end{cases}$$

This results in some changes to the following formulae but the qualitative results do not change. In the last line on page 349, (5.1) should be (5.6) while in the next expression $2h/g^2$ should be $2h/g^3$ and $(B-B_c)^2/g^3$ should be $(B-B_c)^2/g^2$.

The sign in front of BXlnB/D in equation (6.4) on page 353 should be + and the last term should have ln k in place of ln X.

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On page 357, in equation (7.10), $(D_1/D_2)^2$ should be $(D_1/D_2)^{\frac{1}{2}}$ and β should be replaced by

$$\frac{4\beta}{\lambda-1}$$

in the last line.

Equation (7.11) should read

$$\sqrt{(1-4\beta)} \simeq 1-2\beta = 1-\frac{\lambda-1}{2\alpha^2\lambda}\left(1-\frac{B}{(\lambda-1)^2}\right).$$

The last term in the next equation should be

$$\pm 2i\alpha(\lambda-1)\{\lambda(F(r_{-})-B_{+}(r_{-})(r-r_{-})(r_{+}-r_{-})\}^{\frac{1}{2}}.$$

Consequently the expression $2 \mathscr{A}(r_{-})\alpha$ in the denominator of the next equation should be $\mathscr{A}(r_{-})$. The first equation on page 359 should read

$$B_{\pm}(\frac{1}{2}) = B_{\pm}(0) - \alpha^2 \lambda(\lambda \pm 1).$$

On page 363, the seventh last line should read $u''_2 = 1$ and in the third last line u''_1 should replace u''_2 . In the proof of theorem B3, one defines

$$m(b) = \inf_{0 \le r \le 1} X(b, r).$$

The authors would like to thank Dr. T. J. van der Werff for pointing out some of these errors.