

# Erratum to: AIC model selection and multimodel inference in behavioral ecology: some background, observations, and comparisons

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The original version of this article unfortunately contained a mistake.

On page 4, the equation used to calculate model probabilities as a strength of evidence is incorrect.

The corrected equation is given below.

$$w_i = \text{Prob}\{\text{model } g_i | \text{data}\} = \ell_i / \sum_{j=1}^R \ell_j.$$

The online version of the original article can be found under <http://dx.doi.org/10.1007/s00265-010-1029-6>.

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On page 6, the presentation of table 3 was incorrect. The corrected table is given below.

**Table 3** A model set for the example examining ecological factors and extra-pair paternity in a hypothetical bird species

Model description	Model notation
Male body size ('body')	$\beta_0 + \beta_{2i}X_{2i}$
Food availability ('food')	$\beta_0 + \beta_4X_4$
Male dominance ('status')	$\beta_0 + \beta_5X_5$
Territory quality ('territory')	$\beta_0 + \beta_7X_7$
Body+food	$\beta_0 + \beta_{2i}X_{2i} + \beta_4X_4$
Body+status	$\beta_0 + \beta_{2i}X_{2i} + \beta_5X_5$
Body+territory	$\beta_0 + \beta_{2i}X_{2i} + \beta_7X_7$
Food+status	$\beta_0 + \beta_4X_4 + \beta_5X_5$
Food+territory	$\beta_0 + \beta_4X_4 + \beta_7X_7$
Body+food+status	$\beta_0 + \beta_{2i}X_{2i} + \beta_4X_4 + \beta_5X_5$
Body+food+territory	$\beta_0 + \beta_{2i}X_{2i} + \beta_4X_4 + \beta_7X_7$
Body×status	$\beta_0 + \beta_{2i}X_{2i} + \beta_5X_5 + \beta_{2i,5}(X_{2i} * X_5)$
Body×territory	$\beta_0 + \beta_{2i}X_{2i} + \beta_7X_7 + \beta_{2i,7}(X_{2i} * X_7)$
Food×territory	$\beta_0 + \beta_4X_4 + \beta_7X_7 + \beta_{4,7}(X_4 * X_7)$
Intercept only	$\beta_0$

The models link the hypothesized predictor variables from Table 2 with the probability of having an extra-pair young in the nest. Each model is a representation of the biological hypothesis of interest. Models are of the form,  $\text{logit} [\text{Prob}(\text{EPY})] = \beta_0 + \beta_z X_z$ , but the notation is truncated here to list the intercept and response variables and their relationship to each other, if applicable