

Functional consequences of the relative numbers of L and M cones: errata

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The model predictions shown in Fig. 4 of the published paper¹ were computed using incorrect parameter values. This figure shows the correct predictions. In addition, the associated numerical values provided in the text are wrong. When computed with the proper parameters, the model predicts that AN will perceive 601 μm light as

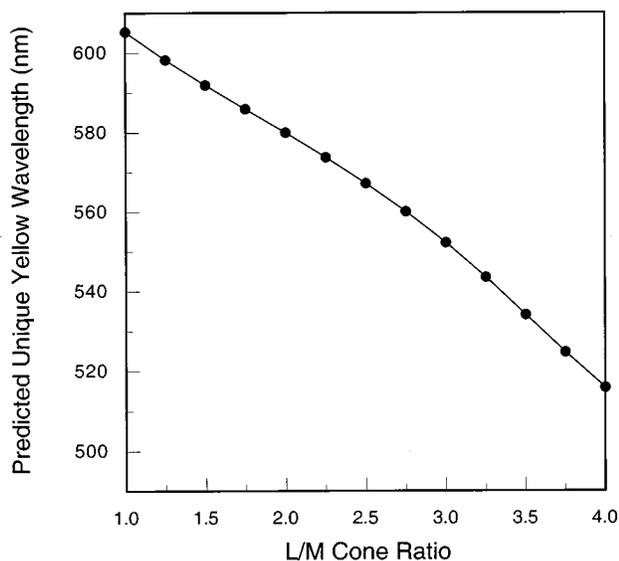


Fig. 4. Predictions for unique yellow based on model described in the text. The figure shows predicted wavelength for unique yellow as a function of L/M cone ratio. To make the predictions we used the Smith–Pokorny estimates of the cone spectral sensitivities, and we set the constant k by requiring that the prediction for an L/M cone ratio of 2 be 580 nm.

unique yellow, while for JN the predicted wavelength of unique yellow is 528 nm. The predicted difference is 73 nm, approximately a factor of 35 greater than the measured difference of 2.1 nm. The error does not affect the conclusions drawn in the paper.

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REFERENCE

1. D. H. Brainard, A. Roorda, Y. Yamauchi, J. B. Calderone, M. Neitz, J. Neitz, D. R. Williams, and G. H. Jacobs, "Functional consequences of the relative numbers of L and M cones," *J. Opt. Soc. Am. A* **17**, 607–614 (2000).