

Corrections

Small Molecule RPE65 Antagonists Limit the Visual Cycle and Prevent Lipofuscin Formation, by Pranab Maiti, Jian Kong, So Ra Kim, Janet R. Sparrow, Rando Allikmets, and Robert R. Rando*, Volume 45, Number 3, January 24, 2006, pages 852–860.

The ^1H NMR spectrum of 3,7,11-trimethyldodeca-2,6,10-trienoic acid hexadecylamide (TDH) was misreported and should be as follows: ^1H NMR (CDCl_3 , 600 MHz) δ 5.52 (s, 1H), 5.30 (m, 1H), 5.11–5.07 (m, 2H), 3.27(dd, J = 6.6 Hz, 2H), 2.15–1.96 (m, 11H), 1.68 (s, 3H), 1.60 (s, 5H), 1.51–1.48 (m, 2H), 1.31–1.25 (m, 27H), 0.88 (t, J = 6.9 Hz, 3H). The mass spectrum for this compound reported in the article is correct. In the NMR report for 13,17,21-trimethyldocosa-12,16,20-trien-11-one (TDT), the multiplet at δ 1.38–1.17 contains 19H, and not 21H as reported.

In this article, we also reported experiments in rats in which 11-*cis*-retinal regeneration was measured by HPLC after intraperitoneal injection of two isoprene analogues, TDT and TDH. The magnitude of the effect was overstated because it compared the 11-*cis*-retinal oxime formation to the retinyl ester peak, when it should have been evaluated in absolute terms. Following TDT treatment, resynthesis of 11-*cis*-retinal was inhibited by less than 20%. Restudy of this process is consistent with the view of a possibly small effect of these isoprenoids on the visual cycle in vivo.

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