

In the article "Novel synthetic ceramide derivatives increase intracellular calcium levels and promote epidermal keratinocyte differentiation" by Kwon et al., published in the September 2007 issue of the *Journal of Lipid Research* (Volume 48, pages 1936–1943), the authors would like to note the following changes:

Page 1936, Abstract section, line 6: K6PC-4 (N-ethanol-2-hexyl-3-hydroxy-decanamide), K6PC-5, (N-ethanol-3-oxo-2-tetradecyl/hexadecyl-octadecanamide/eicosanamide) and K6PC-9 [N-(1,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide], should read: K6PC-4 [N-(2,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide], K6PC-5 [N-(1,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide] and K6PC-9 (N-ethanol-2-hexyl-3-oxo-decanamide).

Page 1937, Introduction section, fourth paragraph, line 1: PC-9S (N-(2,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide), should read: PC-9S (N-ethanol-3-oxo-2-tetradecyl/hexadecyl-octadecanamide/eicosanamide).

Page 1938, Results section, first paragraph, line 10: [for K6PC-4 (N-ethanol-2-hexyl-3-hydroxy-decanamide)], 2-amino-1,3-propanediol [for K6PC-5 (N-ethanol-3-oxo-2-tetradecyl/hexadecyl-octadecanamide/eicosanamide)], or monoethanolamine [for K6PC-9 (N-[1,3-dihydroxypropyl]-2-hexyl-3-oxo-decanamide)], should read: K6PC-4 [N-(2,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide], 2-amino-1,3-propanediol [for K6PC-5 [N-(1,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide]], or monoethanolamine [for K6PC-9 (N-ethanol-2-hexyl-3-oxo-decanamide)].

Page 1938, Results section, third paragraph, line 16: K16PC-5 [N-(1,3-dihydroxypropyl)-2-hexadecyl-3-oxo-hexadecanamide], should read: K16PC-5 [N-(1,3-dihydroxypropyl)-2-hexadecyl-3-oxo-eicosanamide].

Page 1938, Figure 1 and its legend should read:

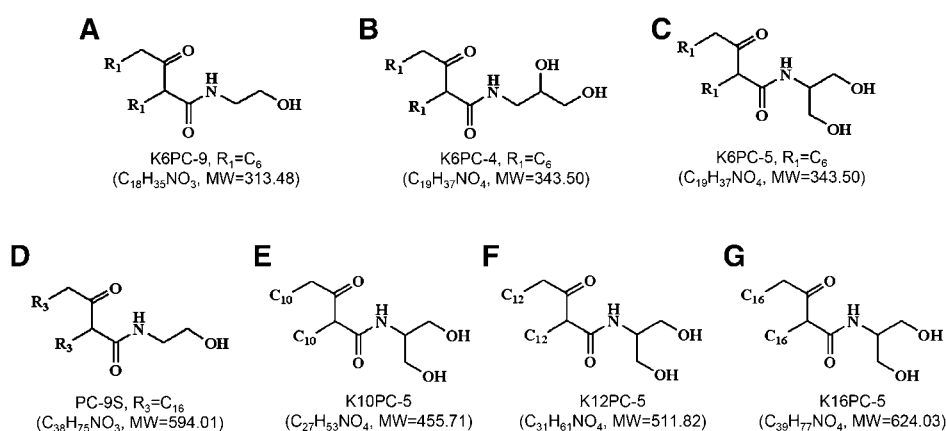


Fig. 1. The molecular structure of ceramide derivatives. To synthesize N-ethanol-2-hexyl-3-oxo-decanamide (K6PC-9), K6PC-4, and K6PC-5, octanoyl chloride was used as two alkyl group (C_6). To examine the effect of alkyl chain length, the alkyl group of K6PC-5 was synthesized with lauroyl chloride (C_{12} ; K10PC-5), myristoyl chloride (C_{14} ; K12PC-5), and hexadecanoyl chloride (C_{16} ; K16PC-5) instead of octanoyl chloride. The chemical names of each compound are as follows: K6PC-9 (A), N-(2,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide (K6PC-4) (B), N-(1,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide (K6PC-5) (C), (N-ethanol-3-oxo-2-tetradecyl/hexadecyl-octadecanamide/eicosanamide) (PC-9S) (D), N-(1,3-dihydroxypropyl)-2-decyl-3-oxo-tetradecanamide (K10PC-5) (E), N-(1,3-dihydroxypropyl)-2-dodecyl-3-oxo-hexadecanamide (K12PC-5) (F), and N-(1,3-dihydroxypropyl)-2-hexadecyl-3-oxo-eicosanamide (K16PC-5) (G).

Page 1939, Table 1 should be replaced by the following table:

TABLE 1

Ceramide	Chemical name	LD ₅₀ (μ M)
K6PC-4	N-(2,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide	38.4 \pm 4.6
K6PC-9	N-ethanol-2-hexyl-3-oxo-decanamide	58.7 \pm 5.6
PC-9S	N-ethanol-3-oxo-2-tetradecyl/hexadecyl-octadecanamide/eicosanamide	37.7 \pm 4.5
K6PC-5	N-(1,3-dihydroxypropyl)-2-hexyl-3-oxo-decanamide	110.5 \pm 8.7
K10PC-5	N-(1,3-dihydroxypropyl)-2-decyl-3-oxo-tetradecanamide	12.3 \pm 3.4
K12PC-5	N-(1,3-dihydroxypropyl)-2-dodecyl-3-oxo-hexadecanamide	45.3 \pm 4.8
K16PC-5	N-(1,3-dihydroxypropyl)-2-hexadecyl-3-oxo-eicosanamide	56.9 \pm 5.2