

Correction

Correction: Marrero et al. Kallopterolides A–I, a New Subclass of *seco*-Diterpenes Isolated from the Southwestern Caribbean Sea Plume *Antillogorgia kallos*. *Molecules* 2024, 29, 2493

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Text Correction

A typographic error involving S* and R* was made in the original publication [1]. A correction has been made to Section 2. Results and Discussion section, specifically in Section 2.1. Chemical Structural Analysis, in the 6th and 7th paragraphs:

This conclusion was validated by the small axial-equatorial coupling constant between these protons ($J_{H6-H7} = 4.1$ Hz). Furthermore, the fixed conformation depicted in Figure 4a was supported by the strong NOESY correlations observed between H-5/Me-16, H-5/H-7, H-7/Me-19, Me-19/H-18 β , and H-8/H-18 α . Farther along the eastern quadrant, the peak assignment for Me-14 and Me-15 in the ¹H-NMR spectrum of **1** was based on the NOESY cross-peak between H-2 and Me-15. While these methods allowed us to establish the assignments described, we should point out that the relative configuration drawn for **1**, namely, 6R*, 7S*, and 8R*, correlates well with the known absolute configuration of other diterpenes co-isolated during this investigation (namely, kallolide A, kallolide A acetate, kallolide C, bipinnapterolide A, and gersemolide). This observation aligns with our contention that, most likely, **1** originates following oxidation/cleavage at C-2/C-3 of a suitable pseudopterane-based precursor (see Figure 1 and Scheme S1 in the Supplementary Materials).

Kallopterolide B (**2**), an optically active yellowish oil, $[\alpha]_D^{20} +5.0$ (c 1.0, MeOH), showed a pseudomolecular $[M + 1]^+$ ion peak at m/z 345.1696 in the HR-FAB-MS corresponding to a molecular formula of C₂₀H₂₅O₅ (calcd 345.1702). The IR and UV spectroscopic data for **2** were very similar to those recorded for kallopterolide A (**1**). Further examination revealed that their ¹H and ¹³C NMR data in CDCl₃ were also almost identical, indicating that both compounds possess identical functionality, namely, two α,β -unsaturated- γ -lactones, one α -substituted- β,β -dimethyl- α,β -unsaturated aldehyde, and one isopropenyl group. Therefore, we concluded that these compounds must be diastereomers. A detailed side-by-side comparison of the ¹H NMR spectra of **1** and **2** (Table 1) revealed that the minor differences observed could be explained by inverting the configuration in **2** at C-6. The reversal at C-6 from R* in **1** to S* in **2** was rendered by subtle differences in the ¹H NMR chemical shifts and coupling constants for H-6 [δ_H 5.34 (ddd, 1H, 3.9, 2.0, 1.9 Hz) in



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1 vs. δ_{H} 5.05 (dd, 1H, 1.7, 1.6 Hz) in **2**] and H-7 [δ_{H} 2.21 (dd, 1H, 10.0, 4.3 Hz) in **1** vs. δ_{H} 2.60 (dd, 1H, 7.0, 7.0 Hz) in **2**] (Table 2).

Error in Figure

In the original publication, there was a mistake in Scheme S1, Figures 2 and S17 as published. The relative stereochemistry for compound **3** about the C8 stereocenter was drawn incorrectly. The corrected Scheme S1, Figure 2 and Figure S17 appear below.

The authors state that the scientific conclusions are unaffected. This correction was approved by the Academic Editor. The original publication has also been updated.

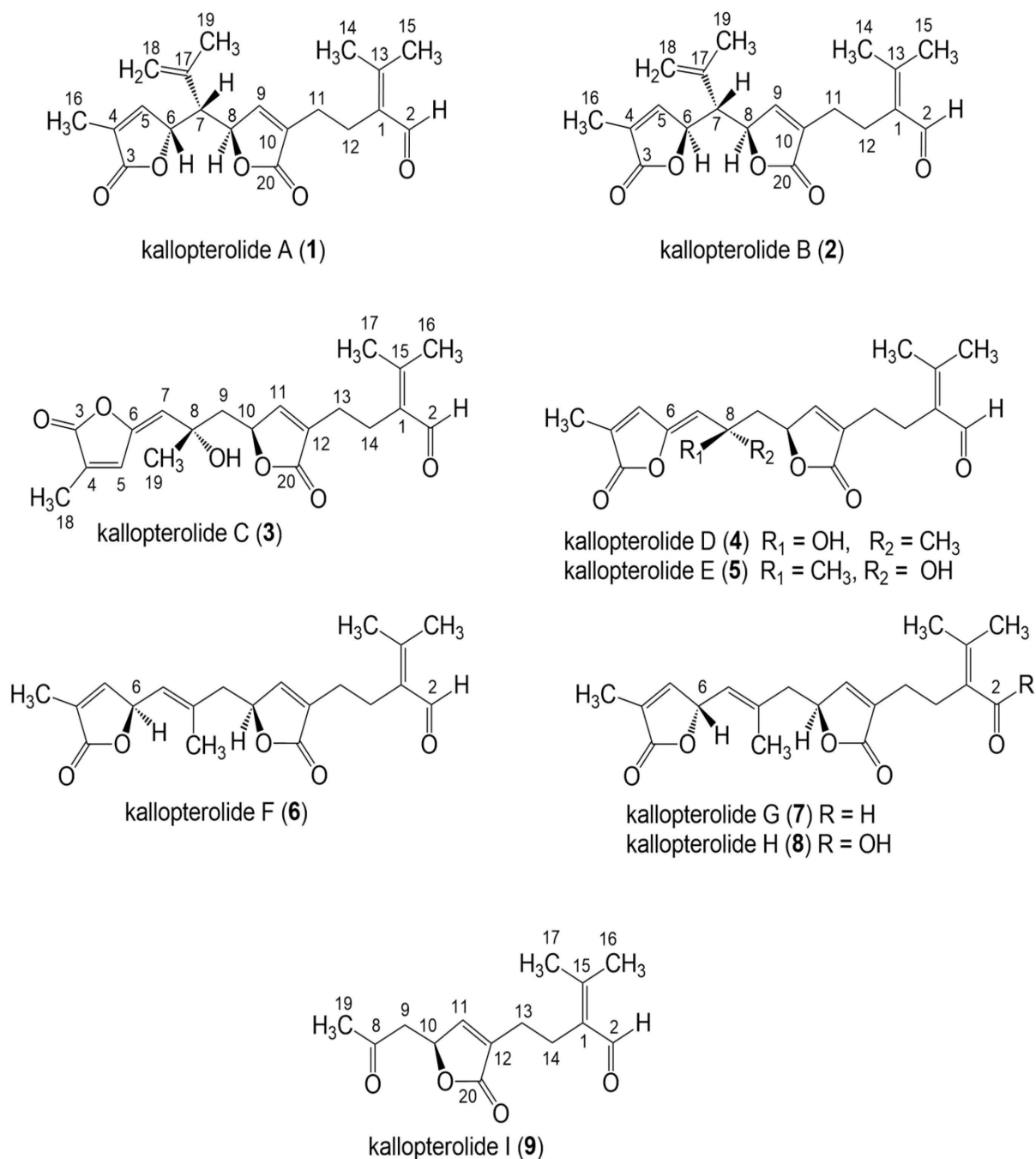
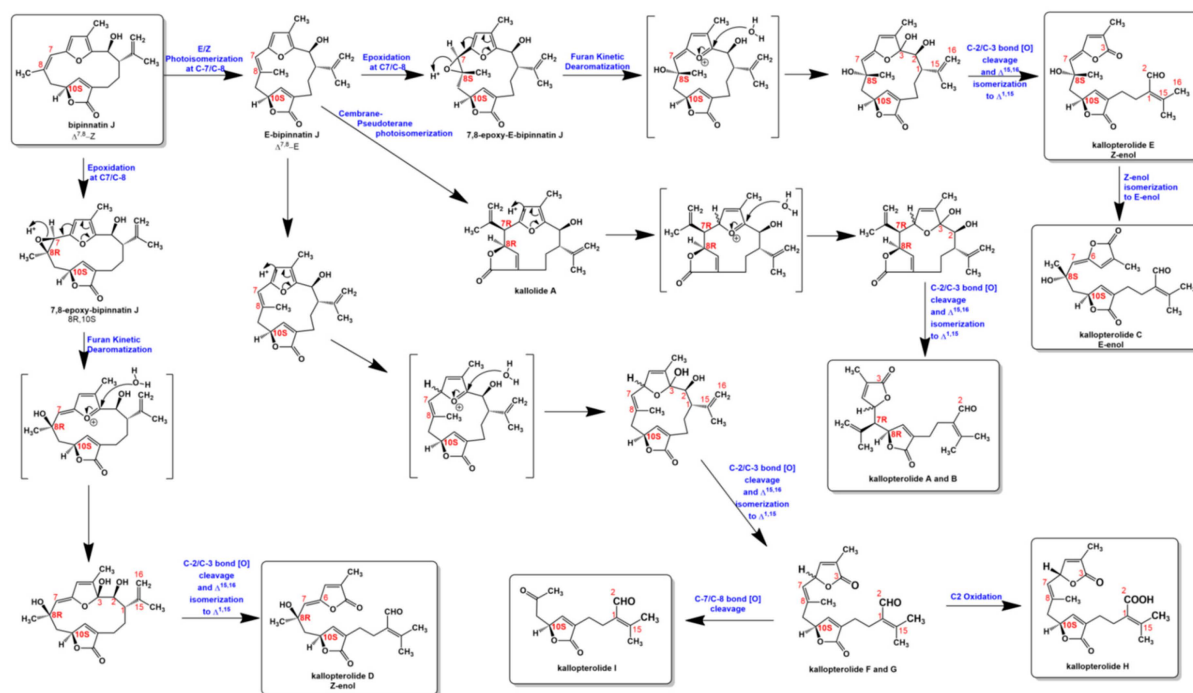


Figure 2. Chemical structures of kallopterolides A–I (1–9).



Scheme S1. Proposed biogenetic pathways for the formation of the kallopterolides.

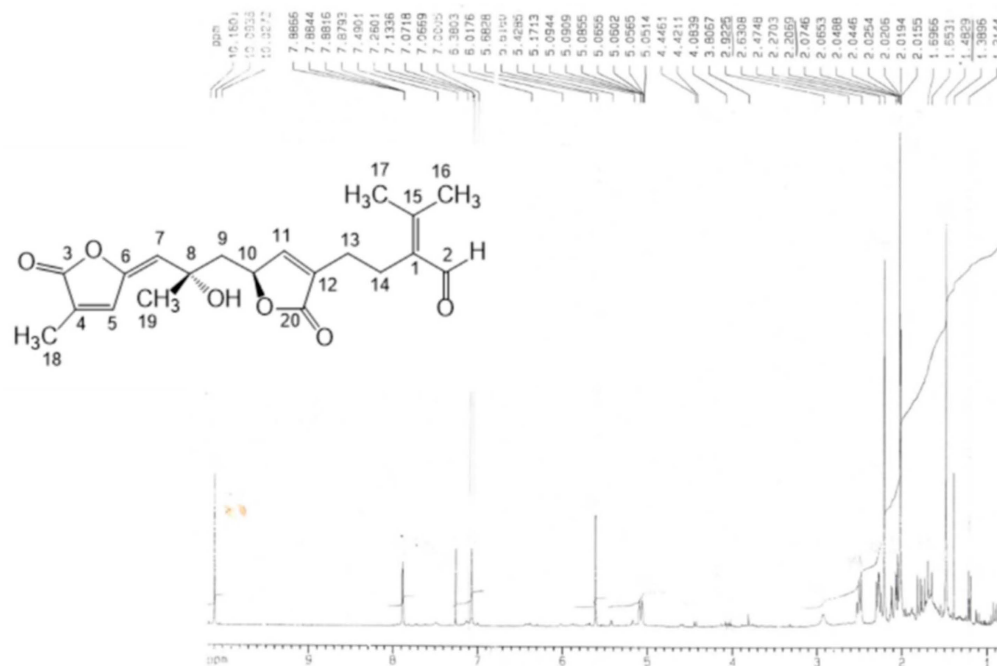


Figure S17. ¹H-NMR spectrum (CDCl₃, 300 MHz) of Kallopterolide C (3).

Reference

- Marrero, J.; Amador, L.A.; Novitskiy, I.M.; Kutateladze, A.G.; Rodríguez, A.D. Kallopterolides A–I, a New Subclass of *seco*-Diterpenes Isolated from the Southwestern Caribbean Sea Plume *Antilloorgia kallos*. *Molecules* **2024**, *29*, 2493. [[CrossRef](#)] [[PubMed](#)]

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