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Title: Biosynthesis of irregular diterpenes in *Anisotome lyallii* by head-to-head coupling of geranyl diphosphate

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Supplementary Data:

Table S1: ^{13}C abundances of labelled anisotomoic acid **1**^a

carbon atom	δ_{C}	% ^{13}C
1	178.0	100
2	48.3	75
3	31.4	101
4	143.9	84
5	116.2	78
6	20.9	99
7	35.2	73
8	35.6	82
9	49.7	80
10	52.2	80
11	40.5	77
12	22.6	94
13	124.0	84
14	129.9	85
15	24.6	60 ^c
16	16.6	98^b
17	27.5	80
18	24.8	94^c
19	18.8	91
20	16.6	98^b

^a data recorded at 500 MHz in CHCl_3 at 45°C

^b coincidental signals, integral are an average

^c integration resolved by deconvolution (line fitting) of close signals

bold type: specifically labelled positions

Table S2: ^{13}C abundances of phytol **4**^{a,b}

carbon atom ^c	δ_{C}	% ^{13}C ^c
1	59.4	2.28
2	123.1	1.57
3	140.2	1.62
4	39.9	1.52
5	25.1	2.16
6	36.7	1.58
7	32.7	1.77
8	37.4	1.69 ^d
9	24.5	2.34
10	37.4	1.69 ^d
11	32.8	1.72
12	37.3	1.69 ^d
13	24.8	2.38
14	39.6	1.59
15	28.0	1.71
16	22.6	1.73
17	22.7	2.25
18	19.7	2.53 ^e
19	19.7	2.53 ^e
20	16.1	1.98

^a data recorded at 500 MHz in CDCl_3 at 25 °C

^b assignments based on that reported in reference 10 and those therein.

^c ^{13}C abundances referenced to C-20 from the ^{13}C satellite analysis of H-20

^d & ^e averaged values due to signal overlapping

bold type: specifically labelled positions