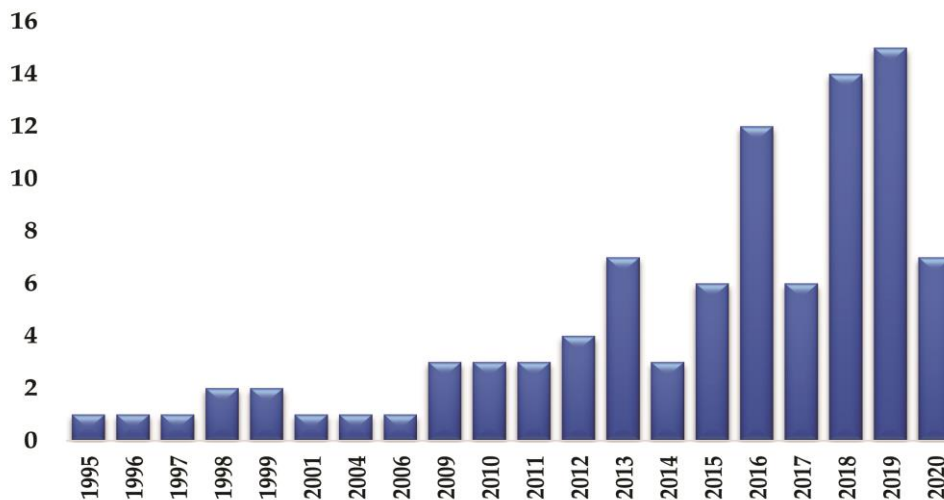




1 Supplementary material

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3

4 **Figure S1.** The total number of *Dendropanax* genus-related publications registered in Pub Med literature
5 database. The y-axis shows the crude total numbers of full-length articles in PubMed. The x-axis shows the
6 year articles first appeared on PubMed.

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Table S1. Phytochemical constituents identified from *Dendropanax* species

| Serial. No | Compound | Molecular Formula | Plant | Plant Part | Extraction method | Content in the extract | References |
|--|---|--|--------------------|------------|-------------------|------------------------|------------|
| <i>D. arboreus</i> | | | | | | | |
| 1 | Falcarinol | C ₁₇ H ₂₂ O | <i>D. arboreus</i> | Leaves | Methanol | 500 mg/488g | [1] |
| 2 | Cis-1,9,16-heptadecatriene-4,6-diyne-3,8-diol | C ₁₇ H ₂₂ O ₂ | <i>D. arboreus</i> | Leaves | 80% Ethanol | 112 mg/322g | [2] |
| 3 | Dehydrofalcarindiol | C ₁₇ H ₂₂ O ₂ | <i>D. arboreus</i> | Leaves | Methanol | 43 mg/488g | [1] |
| 4 | Dehydrofalcarinol | C ₁₇ H ₂₂ O | <i>D. arboreus</i> | Leaves | Methanol | 30 mg/488g | [1] |
| 5 | Falcarindiol | C ₁₇ H ₂₄ O ₂ | <i>D. arboreus</i> | Leaves | Methanol | 26 mg/488g | [1] |
| 6 | (3S)-Diyne | C ₁₇ H ₂₂ O | <i>D. arboreus</i> | Leaves | Methanol | 21 mg/488g | [1] |
| 7 | (3S)-16,17-Didehydrofalcarinol | C ₁₇ H ₂₂ O | <i>D. arboreus</i> | Leaves | Methanol | 7.4mg/488g | [1] |
| 8 | Dendroarboreols A | C ₁₇ H ₂₂ O ₂ | <i>D. arboreus</i> | Leaves | Methanol | 1.8 mg/488g | [1] |
| 9 | Dendroarboreols B | C ₁₇ H ₂₂ O ₂ | <i>D. arboreus</i> | Leaves | Methanol | 1.8 mg/488g | [1] |
| (% of constituent of the essential oil (2 mg)) | | | | | | | |
| 10 | valerianol | C ₁₅ H ₂₆ O | <i>D. arboreus</i> | Leaves | Essential oils | 21.2 % | [3] |
| 11 | γ-eudesmol | C ₁₅ H ₂₆ O | <i>D. arboreus</i> | Leaves | Essential oils | 16.3 % | [3] |
| 12 | Germacrene B | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 8.8 % | [3] |
| 13 | 14-hydroxy-α-muurolene | C ₁₅ H ₂₄ O | <i>D. arboreus</i> | Leaves | Essential oils | 5.2 % | [3] |
| 14 | Khusinol | C ₁₅ H ₂₄ O | <i>D. arboreus</i> | Leaves | Essential oils | 4.3 % | [3] |
| 15 | δ-Cadinene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 3.8 % | [3] |
| 16 | γ-Elemene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 1.8 % | [3] |
| 17 | Trans-β-guaiene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 1.4 % | [3] |
| 18 | Germacrene D | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 1.3 % | [3] |
| 19 | Valencene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 1.1 % | [3] |
| 21 | γ-Muurolene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 1.1 % | [3] |

| | | | | | | | |
|----|--------------------------------|--|--------------------|--------|----------------|--------|-----|
| 22 | β -Bourbonene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 0.7 % | [3] |
| 23 | (E)-2-decenal | C ₁₀ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | 0.4 % | [3] |
| 24 | β -Gurjunene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | 0.4 % | [3] |
| 25 | Khusinol acetate | C ₁₇ H ₂₆ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | 0.3 % | [3] |
| 26 | 14-hydroxy- δ -cadinene | C ₁₅ H ₂₄ O | <i>D. arboreus</i> | Leaves | Essential oils | 0.2 % | [3] |
| 27 | Octanol | C ₈ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | 0.2 % | [3] |
| 28 | <i>trans</i> -Verbenol | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | 0.2 % | [3] |
| 29 | Myrtenol | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | 0.2 % | [3] |
| 30 | Hexadecanoic acid | C ₁₆ H ₃₂ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | 0.2 % | [3] |
| 31 | Isovaleraldehyde | C ₅ H ₁₀ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 32 | Methyl crotonate | C ₅ H ₈ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 33 | Isoamyl alcohol | C ₅ H ₁₂ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 34 | 2-methyl-2-butenal | C ₅ H ₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 35 | Hexanal | C ₆ H ₁₂ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 36 | Furfural | C ₅ H ₄ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 37 | (Z)-2-Hexenal | C ₆ H ₁₀ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 38 | Hexanol | C ₆ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 39 | 2-Heptanone | C ₇ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 40 | 2-Heptanol | C ₇ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 41 | Heptanal | C ₇ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 42 | (E, E)-2,4-hexadienal | C ₆ H ₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 43 | α -Thujene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 44 | Camphene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 45 | Thuja-2,4(10)-diene | C ₁₀ H ₁₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 46 | Benzaldehyde | C ₇ H ₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 47 | Heptanol | C ₇ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |

| | | | | | | | |
|----|-------------------------|---|--------------------|--------|----------------|--------|-----|
| 48 | Sabinene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 49 | 6-methyl-5-hepten-2-one | C ₈ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 50 | Octanal | C ₈ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 51 | α-Phellandrene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 52 | (E, E)-2,4-Heptadienal | C ₇ H ₁₀ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 53 | α-Terpinene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 54 | p-Menth-1-ene | C ₁₀ H ₁₈ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 55 | 1,8-Cineole | C ₁₀ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 56 | (Z)-β-ocimene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 57 | (E)-β-ocimene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 58 | (E)-2-octenal | C ₈ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 59 | γ-Terpinene | C ₁₀ H ₁₆ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 60 | Heptanoic acid | C ₇ H ₁₄ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 61 | 2-nonanone | C ₉ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 62 | Methyl benzoate | C ₈ H ₈ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 63 | Nonanal | C ₉ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 64 | Isophorone | C ₉ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 65 | α-Campholenal | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 66 | cis-Limonene oxide | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 67 | trans-Sabinol | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 68 | (E)-2-Nonenal | C ₉ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 69 | Isopinocampone | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 70 | Terpinen-4-ol | C ₁₀ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 71 | α-Terpineol | C ₁₀ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 72 | Decanal | C ₁₀ H ₂₀ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 73 | trans-Piperitol | C ₁₀ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |

| | | | | | | | |
|---------------------------|------------------------------------|---|--------------------|--------|----------------|--------------|-----|
| 74 | Verbenone | C ₁₀ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 75 | <i>trans</i> -Carveol | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 76 | Nerol | C ₁₀ H ₁₈ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 77 | Cuminaldehyde | C ₁₀ H ₁₂ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 78 | Carvone | C ₁₀ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 79 | Decanol | C ₁₀ H ₂₂ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 80 | (E)-anethole | C ₁₀ H ₁₂ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 81 | Bornyl acetate | C ₁₂ H ₂₀ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 82 | Safrole | C ₁₀ H ₁₀ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 83 | Thymol | C ₁₀ H ₁₄ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 84 | (E, Z)-2,4-decadienal | C ₁₀ H ₁₆ O | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 85 | δ-Elemene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 86 | α-Cubebene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 87 | α-Ylangene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 88 | α-Copaene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 89 | β-Cubebene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 90 | β-Elemene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 91 | <i>trans</i> -β-guaiene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 92 | γ-Cadinene | C ₁₅ H ₂₄ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 93 | (E)-Phytyl acetate | C ₂₂ H ₄₂ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 94 | Dehydrofalconarindiol-A | C ₁₇ H ₂₂ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| 95 | Dehydrofalconarindiol-B | C ₁₇ H ₂₂ O ₂ | <i>D. arboreus</i> | Leaves | Essential oils | <0.1 % | [3] |
| <i>D. dentiger</i> | | | | | | | |
| 96 | Kaempferol 3- <i>O</i> -rutinoside | C ₂₇ H ₃₀ O ₁₅ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 99 mg/207g | [4] |
| 97 | Sargentol | C ₁₇ H ₂₄ O ₁₀ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 51.8 mg/207g | [4] |
| 98 | Kelampayoside A | C ₂₀ H ₃₀ O ₁₃ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 28.9 mg/207g | [4] |

| | | | | | | | |
|-----|--|---|--------------------|--------|-------------|--------------|-----|
| 99 | Icariside F2 | C ₁₈ H ₂₆ O ₁₀ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 25.4 mg/207g | [4] |
| 100 | Quercetin 3- <i>O</i> -robinobioside | C ₂₇ H ₃₀ O ₁₆ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 13.6 mg/207g | [4] |
| 101 | Dhurrin | C ₁₄ H ₁₇ NO ₇ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 8.4 mg/207g | [4] |
| 102 | Coniferin | C ₁₆ H ₂₂ O ₈ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 5.9 mg/207g | [4] |
| 103 | 6'- <i>O</i> -Apiofuranosyl dendranthemoside A | C ₂₄ H ₄₁ O ₁₂ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 4.6 mg/207g | [4] |
| 104 | β-D-glucopyranoside | C ₇ H ₁₄ O ₆ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 4.3 mg/207g | [4] |
| 105 | Glucosyringic acid | C ₁₅ H ₂₀ O ₁₀ | <i>D. dentiger</i> | Leaves | 95% Ethanol | 1.6 mg/207g | [4] |
| 106 | 2-(β-D-Glucopyranosyl)-3-isoxazolin-5-one | C ₉ H ₁₃ NO ₇ Na | <i>D. dentiger</i> | Leaves | 95% Ethanol | 1.2 mg/207g | [4] |
| 107 | 3-Methoxy-D-mannono-1,4-lactone | C ₇ H ₁₂ O ₆ Na | <i>D. dentiger</i> | Leaves | 95% Ethanol | 1.2 mg/207g | [4] |
| 108 | Friedelan-3-one | C ₃₀ H ₅₀ O | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 109 | Glycerol monooleate | C ₂₁ H ₄₂ O ₄ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 110 | Behenic acid | C ₂₂ H ₄₄ O ₂ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 111 | 1-Triacontanol | C ₃₀ H ₆₂ O | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 112 | Stearic acid | C ₁₈ H ₃₆ O ₂ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 113 | Syringaldehyde | C ₉ H ₁₀ O ₄ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 114 | Coniferyl aldehyde | C ₁₀ H ₁₀ O ₃ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 115 | Daucosterol | C ₃₅ H ₆₀ O ₆ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 116 | Sinapaldehyde | C ₁₁ H ₁₂ O ₄ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 117 | Luteolin | C ₁₅ H ₁₀ O ₆ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 118 | Sinapaldehyde glucoside | C ₁₇ H ₂₂ O ₉ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 119 | (<i>E</i>)-4-Hydroxycinnamic acid | C ₉ H ₈ O ₃ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 120 | (<i>E</i>)-Cinnamic acid | C ₉ H ₈ O ₂ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 121 | (+)-syringaresinol-di- <i>O</i> -β-D-glucopyranoside | C ₃₄ H ₄₆ O ₁₈ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 122 | Eugenol rutinoside | C ₂₂ H ₃₂ O ₁₁ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |
| 123 | Icariside E5 | C ₂₆ H ₃₄ O ₁₁ | <i>D. dentiger</i> | Stems | 80% Ethanol | N/A | [5] |

D. gonatopodus (% of constituent of the essential oil (5.2 mg))

| | | | | | | | |
|-----|----------------------|-----------------------------------|-----------------------|--------|----------------|--------|-----|
| 124 | (E)-2-Hexenal | C ₆ H ₁₀ O | <i>D. gonatopodus</i> | leaves | Essential oils | 16.9 % | [6] |
| 125 | Terpinolene | C ₁₀ H ₁₆ | <i>D. gonatopodus</i> | leaves | Essential oils | 14.8 % | [6] |
| 126 | δ-Cadinene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 13.5 % | [6] |
| 127 | (E)-Caryophyllene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 9.9 % | [6] |
| 128 | α-Copaene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 7.3 % | [6] |
| 129 | <i>p</i> -Cymen-8-ol | C ₁₀ H ₁₄ O | <i>D. gonatopodus</i> | leaves | Essential oils | 5.2 % | [6] |
| 130 | (E, E)-α-Farnesene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 4.5 % | [6] |
| 131 | Germacrene-D | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 3.9 % | [6] |
| 132 | α-Pinene | C ₁₀ H ₁₆ | <i>D. gonatopodus</i> | leaves | Essential oils | 3.9 % | [6] |
| 133 | α-Humulene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 3.0 % | [6] |
| 134 | Myrcene | C ₁₀ H ₁₆ | <i>D. gonatopodus</i> | leaves | Essential oils | 3.0 % | [6] |
| 135 | β-Pinene | C ₁₀ H ₁₆ | <i>D. gonatopodus</i> | leaves | Essential oils | 2.8 % | [6] |
| 136 | Bicyclogermacrene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 2.5 % | [6] |
| 137 | <i>p</i> -Cymene | C ₁₀ H ₁₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 1.9 % | [6] |
| 138 | Limonene | C ₁₀ H ₁₆ | <i>D. gonatopodus</i> | leaves | Essential oils | 1.8 % | [6] |
| 139 | γ-Cadinene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 0.7 % | [6] |
| 140 | Spathulenol | C ₁₅ H ₂₄ O | <i>D. gonatopodus</i> | leaves | Essential oils | 0.6 % | [6] |
| 141 | Globulol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | 0.6 % | [6] |
| 142 | α-Cadinol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | 0.6 % | [6] |
| 143 | τ-Cadinol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | 0.5 % | [6] |
| 144 | Mint sulfide | C ₁₅ H ₂₄ S | <i>D. gonatopodus</i> | leaves | Essential oils | 0.4 % | [6] |
| 145 | α-Calacorene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 0.4 % | [6] |
| 146 | γ-Muurolole | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 0.4 % | [6] |
| 147 | Aromadendrene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 0.3 % | [6] |
| 148 | Alloaromadendrene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | 0.3 % | [6] |
| 149 | (E)-β-Ocimene | C ₁₀ H ₁₆ | <i>D. gonatopodus</i> | leaves | Essential oils | 0.2 % | [6] |

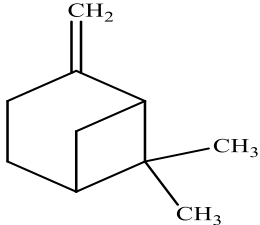
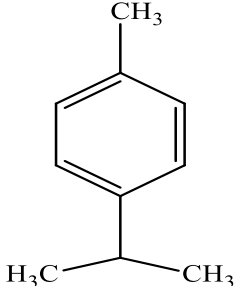
| | | | | | | | |
|---|--------------------------------------|--|-----------------------|--------|----------------|--------|-----|
| 150 | Linalool | C ₁₀ H ₁₈ O | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 151 | β-Cubebene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 152 | β-Elemene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 153 | γ-Gurjunene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 154 | (<i>E</i>)-β-Ionone | C ₁₃ H ₂₀ O | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 155 | <i>trans</i> -Muuroala-4(14),5-diene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 160 | Ledene viridiflorene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 161 | β-Calacorene | C ₁₅ H ₂₀ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 162 | Isoledene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 163 | α-Gurjunene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 164 | Viridiflorene | C ₁₅ H ₂₄ | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 165 | Epiglobulol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 166 | Ledol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 167 | Viridiflorol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| 168 | Palustrol | C ₁₅ H ₂₆ O | <i>D. gonatopodus</i> | leaves | Essential oils | trace | [6] |
| <i>D. capillaris</i> (% of constituent of the essential oil (12 mg)) | | | | | | | |
| 169 | 6-3-Carene | C ₁₀ H ₁₆ | <i>D. capillaris</i> | leaves | Essential oils | 44.7 % | [7] |
| 170 | Daucene | C ₁₅ H ₂₄ | <i>D. capillaris</i> | leaves | Essential oils | 17.1 % | [7] |
| 171 | Dauca-5,8-diene | C ₁₅ H ₂₄ | <i>D. capillaris</i> | leaves | Essential oils | 12.9 % | [7] |
| <i>D. Chevalieri</i> | | | | | | | |
| 172 | Palmitic acid | C ₁₆ H ₃₂ O ₂ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |
| 173 | Dibutylphthalate | C ₁₆ H ₂₂ O ₄ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |
| 174 | Coniferaldehyde | C ₁₀ H ₁₀ O ₃ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |
| 175 | Scopoletin | C ₁₀ H ₈ O ₄ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |
| 176 | β-hydroxypropiovanillone | C ₁₀ H ₁₂ O ₄ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |
| 177 | (+)-Pinoresinol | C ₂₀ H ₂₂ O ₆ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |

| | | | | | | | |
|-----|--------------------|--|----------------------|-------|-----|-----|-----|
| 178 | (+)-Syringaresinol | C ₂₂ H ₂₆ O ₈ | <i>D. Chevalieri</i> | Roots | N/A | N/A | [8] |
|-----|--------------------|--|----------------------|-------|-----|-----|-----|

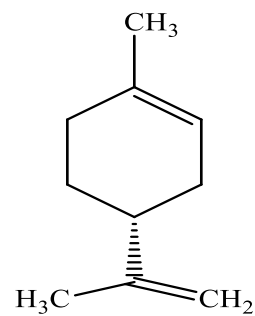
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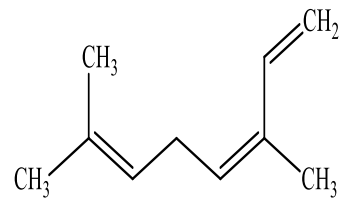
Table S2. The main bioactive compounds of *Dendropanax* species and its pharmacological activities

| Compound | Molecular structure | Plant species | Activity Tested |
|-----------------------|--|-----------------------|---|
| <i>D. gonatopodus</i> | | | |
| β -Pinene |  | <i>D. gonatopodus</i> | Anti-oxidant and anti-inflammatory activity |
| <i>p</i> -Cymene |  | <i>D. gonatopodus</i> | Anti-oxidant and anti-inflammatory activity |

Limonene

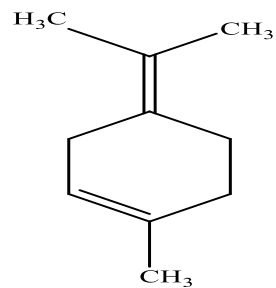
*D. gonatopodus*

Anti-oxidant and antibacterial activity

(E)-β-Ocimene*D. gonatopodus*

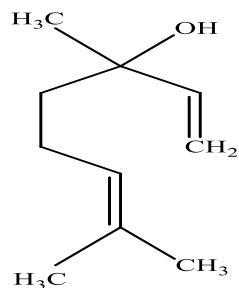
Anti-oxidant and antibacterial activity

Terpinolene

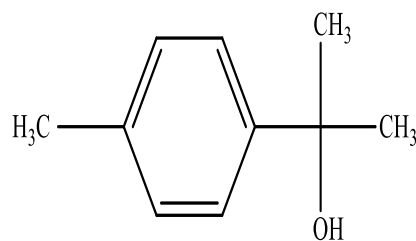
*D. gonatopodus*

Antioxidant, antiviral, and larvicidal Activity

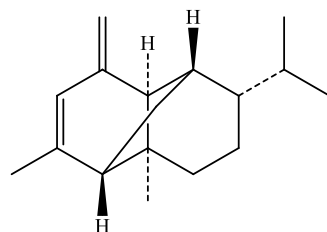
Linalool

*D. gonatopodus*

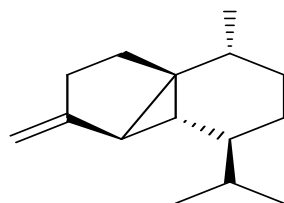
Anti-oxidant and antimicrobial Activity

p-Cymen-8-ol*D. gonatopodus*

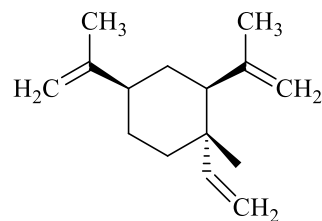
Antioxidant and antifungal activity

 α -Copaene*D. gonatopodus*

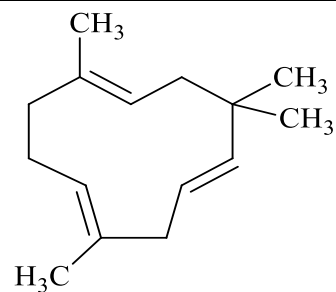
Antioxidant activity

 β -Cubebene*D. gonatopodus*

Antioxidant, antimicrobial and larvicidal activity

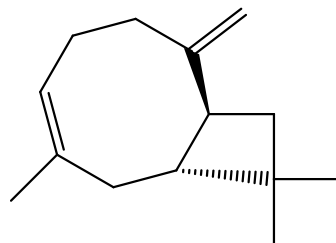
β -Elemene*D. gonatopodus*

Anti-oxidant, anticancer, cytotoxicity and anti-inflammatory activity

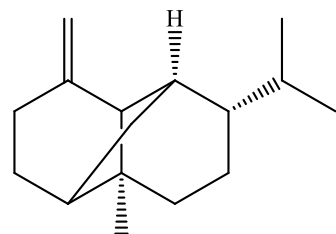
 α -Humulene*D. gonatopodus*

Anti-Inflammatory, antioxidant, antibiotic, and cytotoxic activity

(E)-Caryophyllene

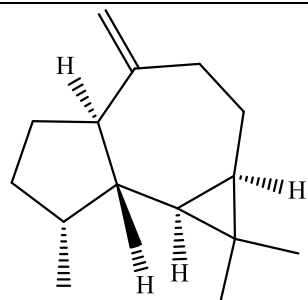
*D. gonatopodus*

Anticancer, antioxidant and antimicrobial activity

 β -Copaene*D. gonatopodus*

Antioxidant and antibacterial activity

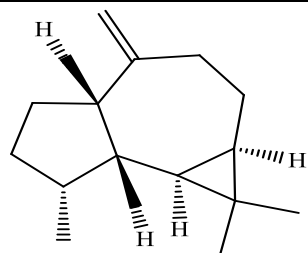
Aromadendrene



D. gonatopodus

Antibacterial and antioxidant activity

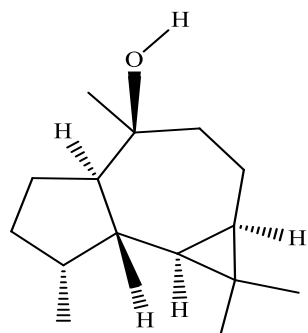
Alloaromadendrene



D. gonatopodus

Antineoplastic and antioxidant activity

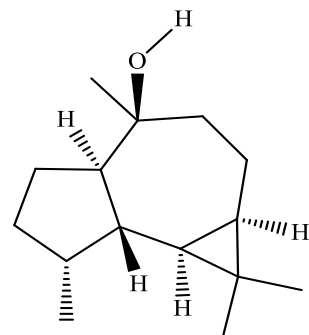
Epiglobulol



D. gonatopodus

Antibacterial and uterus relaxant activity

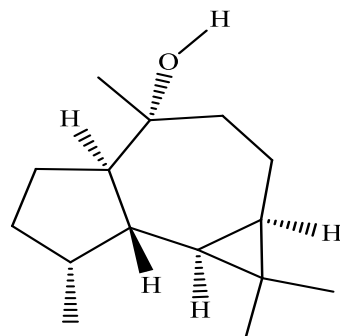
Viridiflorol



D. gonatopodus

Acetylcholinesterase inhibitory and antifungal activity

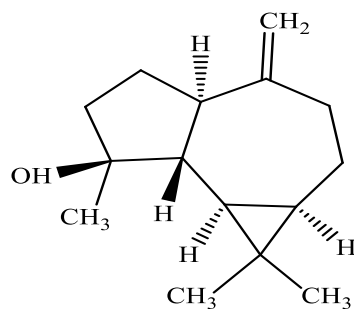
Globulol



D. gonatopodus

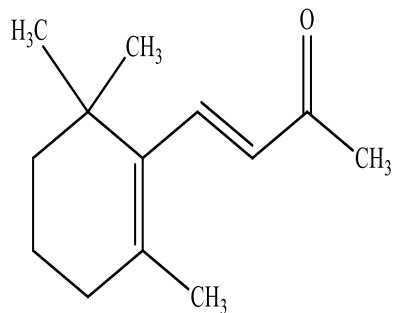
Antibacterial, antifungal, antioxidant, sedative and anaesthetic activity

Spathulenol

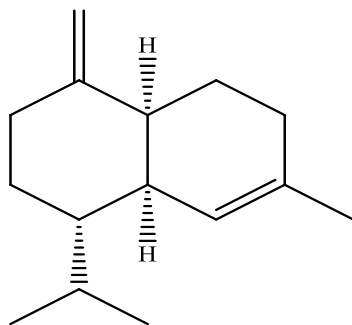


D. gonatopodus

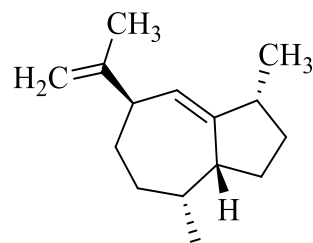
Antibacterial, anticancer, anti-inflammatory, immunomodulatory and uterus relaxant activity

β -Ionone*D. gonatopodus*

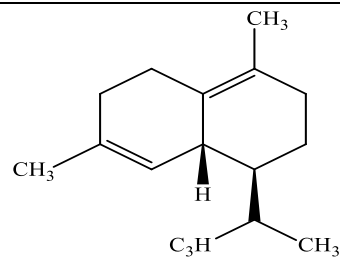
Anticancer and antioxidant activity

 γ -Muurolene*D. gonatopodus*

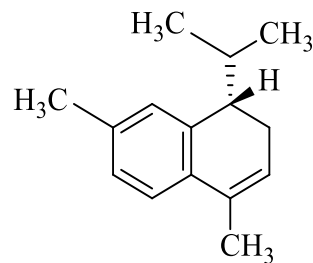
Antimicrobial and antiseptic activity

 γ -Gurjunene*D. gonatopodus*

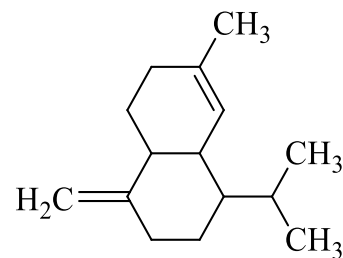
Antimicrobial and antiseptic activity

δ -Cadinene*D. gonatopodus*

Antimicrobial and antiseptic activity

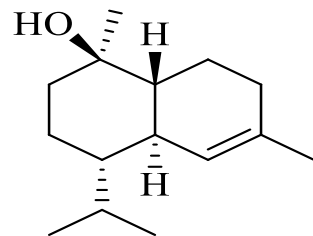
 α -Calacorene*D. gonatopodus*

Antimicrobial and antiseptic activity

 γ -Cadinene*D. gonatopodus*

Antibacterial activity

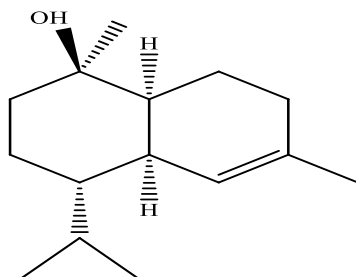
t-Cadinol

*D. gonatopodus*

Antibacterial activity

D. capillaris

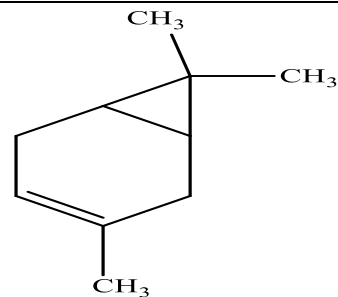
α -Cadinol



D. capillaris

Cytotoxicity

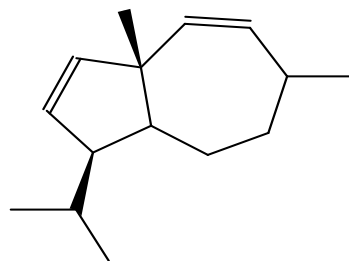
δ -3-Carene



D. capillaris

Cytotoxicity

Dauca-5,8-diene

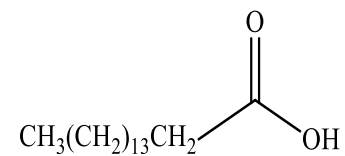


D. capillaris

Cytotoxicity

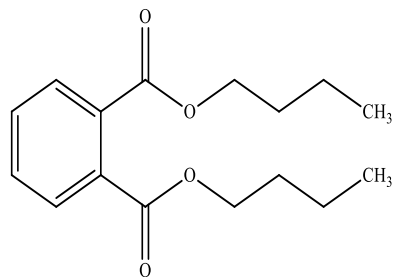
D. Chevalieri

Palmitic acid

*D. Chevalieri*

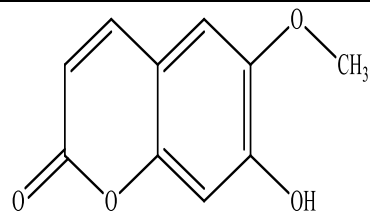
Anti-inflammatory,

Dibutyl phthalate

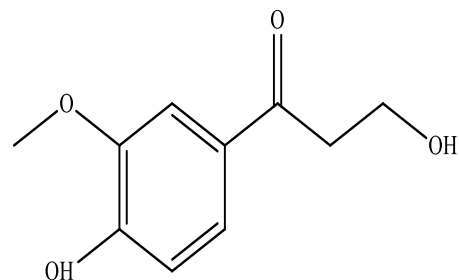
*D. Chevalieri*

Anti-inflammatory,

Scopoletin

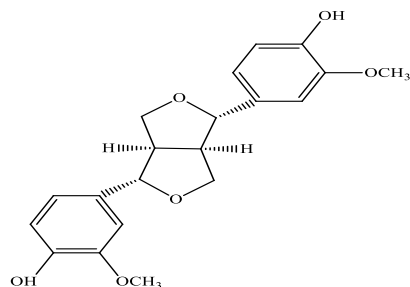
*D. Chevalieri*

Anti-inflammatory,

 β -hydroxypropiovanillone*D. Chevalieri*

Anti-inflammatory,

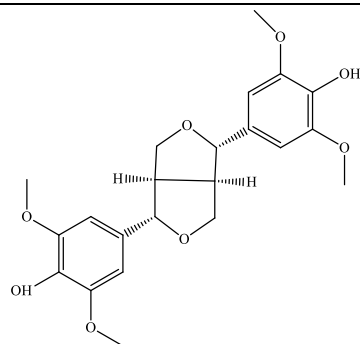
(+)-Pinoresinol



D. Chevalieri

Anti-inflammatory,

(+)-Syringaresinol

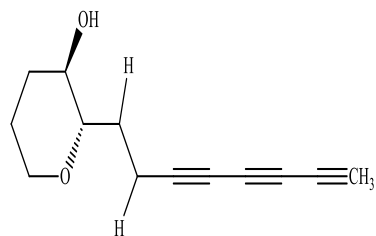


D. Chevalieri

Anti-inflammatory,

D. arboreus

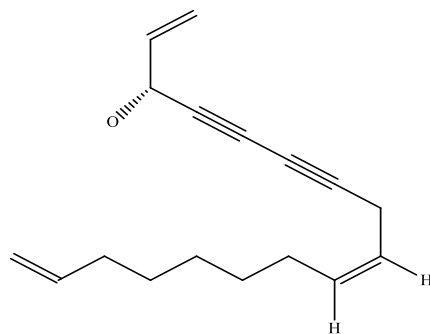
Falcarinol



D. arboreus

Cytotoxicity

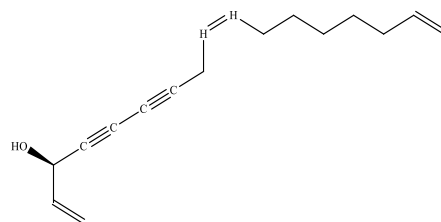
(3S)-16,17-didehydrofalcarinol



D. arboreus

Cytotoxicity

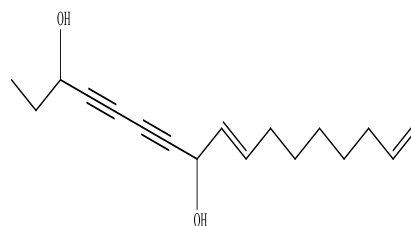
Dehydrofalcarinol-A



D. arboreus

Cytotoxicity

Dehydrofalcarindiol-B



D. arboreus

Cytotoxicity



14 **References**

- 15 1. Bernart, M.W.; Cardellina, J.H.; Balaschak, M.S.; Alexander, M.R.; Shoemaker, R.H.; Boyd, M.R. Cytotoxic
16 falcarinol oxylipins from *Dendropanax arboreus*. *J. Nat. Prod.* **1996**, *59*, 748–753.
- 17 2. Setzer, W.N.; Green, T.J.; Whitaker, K.W.; Moriarity, D.M.; Yancey, C.A.; Lawton, R.O.; Bates, R.B. A
18 cytotoxic diacetylene from *Dendropanax arboreus*. *Planta Med.* **1995**, *61*, 470–471.
- 19 3. Pino, J.A.; Marbot, R.; Payo, A.; Chao, D.; Herrera, P.; Martí, M.P. Leaf oil of *dendropanax arboreus* l. from
20 Cuba. *J. Essent. Oil Res.* **2005**, *17*, 547–548.
- 21 4. Lai, Y.C.; Lee, S.S. Chemical constituents from *Dendropanax dentiger*. *Nat. Prod. Commun.* **2013**, *8*,
22 1934578X1300800322.
- 23 5. Zheng, L.P.; He, Z.G.; Wu, Z.J.; Zhang, C. Chemical constituents from *Dendropanax dentiger*. *Chem. Nat.*
24 *Compd.* **2012**, *48*, 883–885.
- 25 6. Setzer, W.N. Essential oil composition of *Dendropanax gonatopodus* from Monteverde, Costa Rica. An ab
26 initio examination of aromadendrane sesquiterpenoids. *Nat. Prod. Commun.* **2008**, *3*, 1934578X0800300932.
- 27 7. Richmond, J.D.; Agius, B.R.; Wright, B.S.; Haber, W.A.; Moriarity, D.M.; Setzer, W.N. Essential oil
28 compositions and cytotoxic activities of *Dendropanax capillaris*, *Oreopanax nubigenus*, and *Schefflera*
29 *rodrigueziana* from Monteverde, Costa Rica. *Nat. Prod. Commun.* **2009**, *4*, 1934578X0900400221.
- 30 8. Ren, G.; Luo, Z.P.; Huang, H.L.; Shao, F.; Li, G.H.; Zhou, C.X.; Liu, R.H. [Study on the chemical
31 constituents of the roots of *Dendropanax chevalieri*]. *Zhong Yao Cai* **2012**, *35*, 62–64.
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