

Table S1 Summary on the chemical components of Dufour's gland in *Camponotus* ant species

Species and castes	Origin	Main compound (%)	Others	Reference
<i>C. pennsylvanicus</i> , workers	USA	n-Undecane (C ₁₁)		Ayre and Blum (1971)
<i>C. americanus</i> , workers	USA	n-Undecane (C ₁₁), >90%	four alkanes and two alkenes	
<i>C. japonicus</i> , workers	Japan	n-Undecane (C ₁₁), 97%	small amount of n-decane, 3-methyl-decane and n-tridecane; trace n-dodecane	Hayashi and Komae (1980)
<i>C. obscuripes</i> , worker	Japan	n-Undecane (C ₁₁), 96%		
<i>C. herculeanus</i> , workers	Sweden	n-Tridecane (C ₁₃)	contains a mixture of 29 similar substances, with five others unidentified, but with only two alkanols and one alkanone and no farnesyl acetate	
<i>C. ligniperda</i> , workers	Sweden	n-Tridecane (C ₁₃)	contains 37 identified and six unidentified substances, consisting of nalkanes, alkenes, methyl-branched alkanes, n-alcohols, 2-alkanones, alkyl and alkenyl acetates, farnesene and farnesyl acetate	Bergström and Löfgvist (1972)
<i>C. intrepidus</i> , workers	Australia	n-Tridecane (C ₁₃), 30%	n-undecane (25%), n-decane(0.16%), 5-methylundecane (0.05%), 3-methyl-undecane (5%), n-dodecane (2%), 5-methyl-dodecane (0.05%), 3-methyl-dodecane (0.05%), n-tridecene (0.05%), 5-methyl-tridecane (1.4%), 3-methyl-tridecane (4%), n-tetradecane (1.3%), n-pentadecene (0.05%), n-pentadecane (21%), 5-methyl-pentadecane (0.7%), 3-methyl-pentadecane (0.7%), n-hexadecane (0.2%), 5-methyl-hexadecane (0.05%), 3-methyl-hexadecane (6.5%), n-heptadecane (2.5%), dodec-1-ene (0.05%)	Brophy <i>et al.</i> (1973)
<i>C. thoracicus fellah</i> , workers	Israel	n-Undecane (C ₁₁), 92%	n-decane (2.5%), n-dodecane (1%), tridecane (1.5%), n-tridecane (4.5%), n-pentadecane (0.5%), n-heptadecane (1%)	
<i>C. thoracicus sanctoides</i> , workers	Israel	n-Undecane (C ₁₁), 75%	Tridecane (11%), pentadecane (4%), Unknown (9.5%); trace n-decane, n-dodecane, n-tetradecane, n-pentadecane, and n-heptadecane	
<i>C. sericeus</i> , workers	Israel	n-Tridecane (C ₁₃), 70%	n-undecane (3.4%), n-dodecane (1.8%), 7-methyltridecane (9%), 5-methyltridecane (9%), n-tetradecane (0.8%), n-pentadecane (10%), n-hexadecane (1.5%), heptadecene (3.1%), n-heptadecane (2.8%); trace pentadecene.	Hefetz and Orion (1982)
<i>C. lateralis rebecca</i> , workers	Israel	n-Tridecane (C ₁₃), 93%	n-undecane (2%), n-dodecane (2%), tridecene (2%), n-pentadecane (0.6%)	
<i>C. gestroi</i> , workers	Israel	5-methyl-Tridecane, 30.3%	n-undecane (11.6%), n-tridecane (21%), n-pentadecane (15.2%), n-hexadecane (8.9%), n-heptadecane (12.6%); trace n-dodecane and n-pentadecene.	
<i>C. aethiops</i> , workers	Corsica	n-Undecane (C ₁₁), 72%	n-tridecane (18.1%), n-decane (1.41%), n-dodecane (0.46%), n-pentadecane (6.86%)	Ali <i>et al.</i> (1988a)
<i>C. aethiops</i> , queens		n-Undecane (C ₁₁), 77.7%	n-tridecane (19.5%), n-decane (1.97%), n-dodecaen (0.25%), trace n-pentadecane	
<i>C. aegyptiacus</i> , minor workers	Egypt	n-Undecane (C ₁₁), 78.4%	n-Tridecane (9%), n-decane (3%), dodecyl acetate (0.2%)	
<i>C. aegyptiacus</i> , major workers		n-Undecane (C ₁₁), 52.2%,	mainly hydrocarbons (C ₁₀ to C ₁₉) and acetates (C ₁₀ to C ₂₀); trace compounds of two	Ali <i>et al.</i> (1988b)

Species and castes	Origin	Main compound (%)	Others	Reference
<i>C. vagus</i> , workers	Corsica	Dodecyl acetate (28.2%)	alcohols, two propionates and one terpenoid compound (farnesyl acetate). Different from minors, n-tridecane (3.9%) and n-decane (0.5%), dodecyl acetate (28.2%).	Bagnères <i>et al.</i> (1991)
<i>C. lateralis</i> , workers		n-Undecane (C ₁₁), 70% n-Tridecane (C ₁₃), 22%	99% of contents is alkanes (C ₉ to C ₁₅) and alkenes (C ₁₁ to C ₁₉); small quantities of three methyl-branched alkanes, four acetates and dodecanol.	
<i>C. atriceps</i> , workers	France	n-Tridecane (C ₁₃), 73.9%	23 substances were recognized, chiefly alkanes and alkyl acetates, n-tridecane (73.9%), followed by 5-pentadecene (13.25%) and tetradecyl acetate (17.26%); small quantities of a farnesene isomer and geranylgeranyl acetate.	Haak <i>et al.</i> (1996)
<i>C. floridanus</i> , workers	USA	n-Undecane (C ₁₁), 76.24%	33 hydrocarbons (C ₁₀ to C ₂₁); trace amount of the doubly unsaturated straight chain tridecadiene, heptadecadiene and nonadecadiene.	Brand <i>et al.</i> (1999)
<i>C. arminius</i> , workers		n-Undecane (C ₁₁), 90%	Hydrocarbons (C ₁₀ to C ₁₉); small quantities of monomethyl alkanes and two oxygenated compounds (9-octadecenol and 2,3-dihydro-6t-farnesal)	
<i>C. socius</i> , workers	South Africa	n-Undecane (C ₁₁), 67% n-Tridecane (C ₁₃) 19%	Other hydrocarbons (C ₁₀ to C ₁₇), two terpenoid compounds (geranyllinalool and geranylfarnesol), and trace amount of tridecene.	Kohl <i>et al.</i> (2001)
<i>C. castaneus</i> , workers	USA	n-Undecane (C ₁₁), 93%	The straight chain saturated hydrocarbons (C ₉ to C ₁₉ , and C ₂₁) with n-undecane 93%; corresponding mono-unsaturated, straight chain hydrocarbons (C ₁₁ to C ₁₃ and C ₁₆ to C ₂₀).	Kohl <i>et al.</i> (2003)
<i>C. balzani</i> , workers	Peru	n-Octyl hexanoate, 97%	mono-unsaturated, straight chain hydrocarbons (C ₁₂ to C ₁₃ , and C ₁₆ to C ₁₉), and a small amount of a nonadecadiene.	
<i>C. sericeiventris</i> , workers	Argentina	n-Undecane (C ₁₁), 84%	consist mainly of esters, and Octyl hexanoate makes up about 97% of the total volatile.	Fujiwara-Tsujii <i>et al.</i> 2006
<i>C. obscuripes</i> , workers	Japan	n-Undecane(C ₁₁), >90%	mono-unsaturated, straight chain hydrocarbons in the ranges C ₁₁ to C ₁₉ (with exception of C ₁₄ to C ₁₈), and also a small amount of 6, 9-heptadecadiene. n-decane and n-pentadecane	