

Supplement to:

Journal of Agriculture and Rural Development in the Tropics and Subtropics

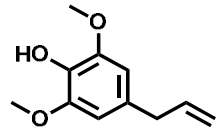
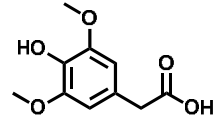
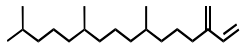
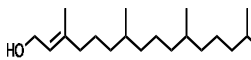
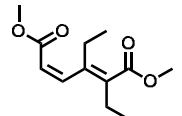
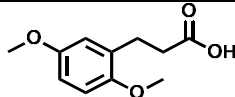
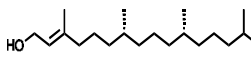
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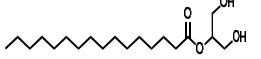
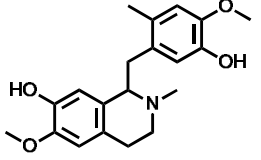
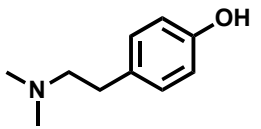
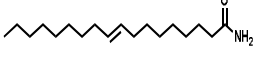



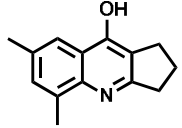
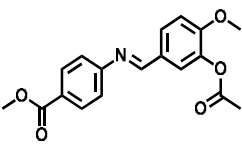
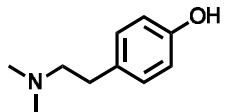
Anti-feedant activity of *Pachygone laurifolia* (DC.) L.Lian & Wei
Wang bark extracts in tobacco cutworm, *Spodoptera litura*
(Lepidoptera: Noctuidae) is mediated through biochemical responses
and pathological damage

Alina Paul, Suprima MS and Jayaraj Ravindran

Supplementary material: Analysis of phytochemical constituents by GC-MS

A Phytochemical constituents of <i>Pachygone laurifolia</i> (Bark) Fraction - IV										
Peak #	Retention Time	Area	Area (%)	Height	Height (%)	Name	Base m/z	Chemical nature	Properties	Structure
1	23.901	11769032	7.50	2181604	6.84	Methoxy-eugenol	193.95		Toxic	
2	25.462	5173017	3.30	1112948	3.49	3,5-Dimethoxy-4-hydroxyphenyl acetic acid	166.95		Oral acute toxicity (organ), irritant to skin, eye, respiratory tract	
3	26.527	14505446	9.24	5830998	18.27	Neophytadiene	68.00	alkene and a diterpene.	Anti-inflammatory agent, an antimicrobial agent,	
4	27.403	4601081	2.93	1705399	5.34	3,7,11,15-Tetramethyl-2-hexadecen-1-ol	82.00	-	Skin, eye irritation, very toxic to aquatic life with long lasting effects	
5	29.509	18049941	11.50	2075892	6.50	Cis, Trans-Diethylmuconic acid dimethylester	166.95	-	Skin, respiratory irritation and cause serious eye damage	
6	29.989	20076989	12.79	2518424	7.89	Benzenepropionic acid, 2,5-Dimethoxy	166.95	-		
7	31.865	8782193	5.60	3059794	9.59	Phytol	71.00	diterpenoid	Used as schistosomicide drug, cause Skin irritation, very toxic to aquatic life with long lasting effects, toxic	

8	36.264	11841 199	7.54	26196 60	8.21	Oleamide	59.00	fatty amide	Used to induce drowsiness or sleep or to reduce psychological excitement or anxiety.	
9	38.576	62936 04	4.01	10906 20	3.42	Glycerol beta palmitate	57.05	2- monoglyce ride		
10	41.308	19830 036	12.6 3	32511 60	10.19	Reticuline, 6 methyl	191.95	alkaloid	Potent central nervous system depressing effects. It is also toxic to dopaminergic neurons causing a form of atypical parkinsonism known as Guadeloupean Parkinsonism	
11	42.090	38025 18	2.42	79798 4	2.50	Hordenine	58.05	alkaloid	Stimulate the central nervous system, and increase heart rate, blood pressure, and breathing rate. It has the ability to promote weight loss by enhancing metabolism. Oral acute toxicity, serious eye irritation and skin irritation.	
12	42.543	13117 981	8.36	29147 30	9.13	9- Octadecenami de	59.00	-	Drugs used to induce drowsiness or sleep or to reduce psychological excitement or anxiety.	
13	47.141	19108 688	12.1 7	27578 28	8.64	Dotriacontane	57.05	alkane	Skin, eye and respiratory irritation	

B Phytochemical constituents of <i>Pachygone laurifolia</i> (Bark) Fraction - V										
Peak #	Retention Time	Area	Area (%)	Height	Height (%)	Name	Base m/z	Chemical nature	Properties	Structure
1	36.794	563984	2.79	12879 3	5.83	5,7-Dimethyl-9-hydroxy-2,3-dihydro-1H-cyclopenta[b]quinoline	211.95	aromatic heterocyclic	-	
2	40.625	112142 1	5.55	30962 6	14.03	Benzoic acid, 4-(3-acetoxy-4-methoxybenzylid enamino)-, methyl ester	284.95	-	-	
3	42.076	166934 75	82.6 4	14190 27	64.28	Hordenine	58.05	alkaloid	Stimulate the central nervous system, and increase heart rate, blood pressure, and breathing rate. It has the ability to promote weight loss by enhancing metabolism. Oral acute toxicity, serious eye irritation and skin irritation.	
4	46.132	182035 0	9.01	34996 8	15.85	Acetone-Oxime	58.05	Ketoxime	-	