



Supplementary Material

In-vitro Toxicity Evaluation of Some Phytoextracts against Mealybug *Drosicha mangiferae* (Hemiptera: Pseudococcidae) Infesting Citrus Orchards in Pakistan

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Supplementary Table I.- Analysis of variance comparison of different botanical extracts evaluated against 2nd instar nymphs of mealybug *Drosicha mangiferae* Green under laboratory conditions.

Source	DF	<i>A. indica</i>			<i>D. viscosa</i>			<i>G. jasminoides</i>			<i>N. indicum</i>			<i>P. hysterophorus</i>		
		MS	F-value	P-value	MS	F-value	P-value	MS	F-value	P-value	MS	F-value	P-value	MS	F-value	P-value
Time	3	2580.56	108.65	<0.001	757.64	25.61	<0.001	1024.31	24.26	<0.001	907.64	52.28	<0.001	429.86	15.25	<0.001
Concent.	3	3847.22	161.99	<0.001	1074.31	36.31	<0.001	1118.75	26.50	<0.01	968.75	55.80	<0.001	946.53	33.57	<0.001
Time x Concent.	9	471.30	19.84	<0.001	176.16	5.95	<0.001	192.82	4.57	<0.05	240.97	13.88	<0.001	118.75	4.21	<0.01
Error	30	23.75			29.58			42.22			17.36			28.19		
CV		24.89			58.02			63.65			51.28			62.16		

$P < 0.001$ (highly significant) and $P < 0.01$ (significant); two-way factorial ANOVA at $\alpha = 0.05$.

Supplementary Table II.- Analysis of variance comparison of different plant essential oils evaluated against 2nd instar nymphs of *Drosicha mangiferae* Green under laboratory conditions.

Source	DF	<i>S. aromaticum</i>			<i>C. citratus</i>			<i>D. alba</i>		
		MS	F-value	P-value	MS	F-value	P-value	MS	F-value	P-value
Time	3	1438.89	28.95	< 0.001	794.444	35.45	< 0.01	2291.67	39.42	< 0.001
Concentration	3	1033.33	40.31	< 0.001	650.000	43.33	< 0.001	947.22	95.38	< 0.001
Time x Concentration	9	261.11	7.32	< 0.001	162.963	8.89	< 0.001	341.67	14.22	< 0.001
Error	30	35.69			18.333			24.03		
CV		55.15			51.38			43.57		

$P < 0.001$ (highly significant) and $P < 0.01$ (significant); two-way factorial ANOVA at $\alpha = 0.05$.