

## Inhibition of *Bungarus caeruleus* snake venom toxicity by *Citrus reticulata* methanolic extract and *in-silico* analysis of possible binding modes

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### Supplementary Information

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Supplementary Table S1 — Dose-dependent LD<sub>50</sub> determination of *B. caeruleus* venom and their observed toxicity symptoms

Group	Venom (mg/kg)	Bodyweight	No. of mice survived	Survival time (h)	Symptoms observed
I	1:0		0/4	7.5±1.5	Isolated, heavy breathing, eye closure, lymph paralysis
II	0.8		0/4	9±2.0	Isolated, heavy breathing, eye closure, lymph paralysis
III	0.6		1/4	6±0.7	Isolated, heavy breathing, eye closure, lymph paralysis
IV	0.4		2/4	4.5±1.5	Lymph paralysis
V	0.2		4/4	>48	No toxicity
VI	Saline		4/4	>48	No toxicity

Supplementary Table S2 — Neutralization of Krait venom lethality by crude methanolic Citrus reticulata Blanco extract. The LD<sub>50</sub> value of 0.4 mg/kg body weight of mice was used. The mice were challenged with twice the amount of LD<sub>50</sub> for determining the effective dosage of the extract to inhibit venom lethality.

Group	Venom:MPE (w/w)	V+MPE (mg/kg b. w)	No. of mice survived	Survival time (h)	Symptoms observed
I	Saline	-	4/4	>48	NT
II	1:0	0	0/4	7.5±1.5	Isolated, heavy breathing, lymph paralysis
III	1:100	135	0/4	12±2.1	Isolated, heavy breathing, lymph paralysis
IV	1:200	270	1/4	13±0.4	Isolated, heavy breathing, lymph paralysis
V	1:250	337.5	2/4	15	Isolated, heavy breathing, lymph paralysis
VI	1:300	405	3/4	17.5±5.6	Heavy breathing, lymph paralysis
VII	1:400	540	4/4	>48	No toxicity
VIII	0:400	540	4/4	>48	No toxicity



Supplementary Fig. S1 — Sequence alignment of the PLA2 sequences of the Indian cobra (*Naja naja*) and the krait (*Bungarus caeruleus*)