

Supplementary Material to "Identification and characterization of the first endogenous phospholipase A₂ inhibitor from a non-venomous tropical snake, *Boa constrictor* (Serpentes: Boidae)"

B. constrictor		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	E	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
C. d. terrificus		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	E	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
B. alternatus		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	E	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
B. erythromelas		R	S	C	D	L	C	H	N	I	G	X	D	C	D	G	-	Y	E	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
B. jararaca		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	Q	E	C	S	S	P	E	D	V	C	X	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N		
B. jararacussu		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	X	S	A	S	L	S	V	R	T	V	R	K	N		
B. moojeni		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	X	S	A	S	L	S	V	R	T	V	R	K	N			
B. neuwiedi		R	S	C	X	C	H	N	X	G	K	D	C	D	G	-	Y	Q	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N			
G. brevicaudus		R	S	C	D	Y	C	H	N	I	G	K	D	C	D	G	-	Y	E	H	E	C	S	S	P	E	D	V	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
L. muta		R	S	C	D	F	C	H	N	I	G	K	D	C	D	G	-	Y	E	X	E	C	S	S	P	E	D	V	C	G	K	V	X	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
P. elegans		R	S	C	D	F	C	H	N	I	G	A	D	C	E	G	-	F	Q	H	E	C	S	S	P	E	D	E	C	G	K	V	F	L	E	L	S	S	A	S	L	F	R	T	V	R	K	N		
P. flavivididis		R	S	C	D	F	C	H	N	I	G	A	D	C	E	G	-	F	Q	H	E	C	S	S	P	E	D	E	C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
E. climacophora		R	S	C	E	I	C	H	N	V	G	N	D	C	G	Y	D	V	E	E	C	H	S	P	E	D	Q	C	G	K	V	F	L	E	I	S	S	A	P	L	S	I	R	S	I	R	N	R	N	
E. quadrivergata		R	S	C	E	I	C	H	N	V	G	N	D	C	G	Y	D	V	E	L	C	H	S	P	E	D	Q	C	G	K	V	L	E	I	S	S	A	P	L	S	I	R	S	S	I	R	N	R	N	
S. annularis		R	S	C	E	I	C	H	N	V	G	N	D	C	Y	D	V	Y	Q	E	C	D	S	P	E	D	Q	C	G	T	V	M	L	E	G	S	L	A	P	F	S	V	R	T	I	R	N	R	N	
N. scutatus		H	S	C	E	I	C	H	N	F	G	K	D	C	Q	S	E	E	A	E	E	C	A	S	P	E	D	Q	C	G	T	V	L	H	E	V	S	A	P	I	S	F	R	S	I	R	N	R	N	
O. microlepidotus		R	S	C	X	C	H	N	F	G	K	X	C	E	S	E	A	E	E	E	C	A	S	P	E	D	Q	C	G	T	V	L	L	E	I	S	S	A	P	I	S	F	R	X	I	R	N	R	N	
O. scutellatus		X	S	C	E	I	C	X	N	F	G	K	X	C	E	S	E	A	E	E	E	C	A	S	P	E	D	Q	C	G	T	V	L	L	E	I	S	S	A	P	I	S	F	R	X	I	R	N	R	N
P. textilis		R	S	C	E	I	C	H	N	F	G	K	V	C	D	N	E	P	A	L	E	C	A	S	P	E	D	Q	C	G	T	V	L	L	E	I	S	S	A	P	I	S	F	R	T	I	R	N	R	N
M. reticulatus		D	K	C	E	I	C	H	G	F	D	D	C	D	G	-	Y	Q	E	C	P	S	P	E	D	R	C	G	K	I	L	I	D	I	A	L	A	P	V	S	F	R	A	T	K	K	N			
consensus		R	S	C	D		C	H	N		G	K	D	C	D	G	-	Y			E	C	S	S	P	E	D		C	G	K	V	F	L	E	I	S	S	A	S	L	S	V	R	T	V	R	K	N	
B. constrictor		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	G	R	V	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	G	L	P	L	S	R	P	N			
C. d. terrificus		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	G	R	I	N	C	C	E	K	E	L	C	E	D	Q	P	F	F	P	G	L	P	L	S	X	P	N		
B. alternatus		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	R	P	N		
B. erythromelas		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	X	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	R	P	N		
B. jararaca		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	G	X	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	R	P	N		
B. jararacussu		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	N	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	R	P	N		
B. moojeni		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	G	X	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	R	P	N		
B. neuwiedi		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	X	R	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	R	P	N		
G. brevicaudus		C	F	S	S	S	V	C	K	L	G	H	F	D	I	N	I	G	H	S	Y	I	R	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S	Q	P	N	
L. muta		C	F	S	S	S	I	C	K	L	G	I	D	V	N	I	G	H	S	Y	I	R	G	R	X	N	C	C	E	K	E	P	C	E	D	Q	X	F	F	P	G	L	P	L	S	X	P	N		
P. elegans		C	F	S	S	S	L	C	K	L	R	H	F	D	V	N	I	G	H	S	Y	I	R	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	S	F	F	P	G	L	P	L	S	Q	P	N	
P. flavivididis		C	F	S	S	S	V	C	K	L	R	H	F	D	V	N	I	G	H	S	Y	I	R	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	S	F	F	P	G	L	P	L	S	Q	P	N	
E. climacophora		C	F	S	S	S	L	C	K	L	E	H	F	D	V	N	T	G	E	T	Y	L	R	G	R	I	H	C	D	E	E	K	C	E	G	R	P	F	F	P	G	L	P	L	S	H	P	N		
E. quadrivergata		C	F	S	S	S	L	C	K	L	E	H	F	D	V	N	T	G	E	T	Y	L	R	G	R	I	H	C	D	E	K	C	E	G	R	P	F	F	P	G	L	P	L	S	H	P	N			
S. annularis		C	F	S	S	S	L	C	K	L	E	H	F	D	V	N	T	G	E	T	Y	L	R	G	R	I	H	C	D	E	Q	Q	K	C	E	G	R	P	F	F	P	G	L	P	L	S	Y	P	N	
N. scutatus		C	F	S	S	S	L	C	K	L	E	R	F	D	I	N	I	G	H	S	Y	L	R	G	R	I	H	C	D	E	A	R	C	E	A	Q	F	F	P	G	L	P	L	S	F	P	N			
O. microlepidotus		C	F	S	S	S	L	C	K	L	E	H	F	D	I	N	I	G	H	S	Y	X	R	G	R	I	H	C	X	E	E	K	C	E	A	Q	F	F	P	G	L	P	L	S	F	P	N			
O. scutellatus		C	F	S	S	S	L	C	K	L	E	H	F	D	I	N	I	G	H	S	Y	X	R	G	R	I	H	C	D	E	E	X	C	E	A	Q	F	F	P	G	L	P	L	S	F	P	N			
P. textilis		C	F	S	S	S	L	C	K	L	E	H	F	D	I	N	I	G	H	S	Y	I	R	G	R	I	H	C	D	E	E	K	C	E	A	Q	F	F	P	G	L	P	L	S	F	P	N			
M. reticulatus		C	F	S	S	S	I	C	K	L	G	R	V	D	I	H	V	D	G	V	Y	I	R	G	R	I	N	C	D	N	D	Q	E	D	Q	P	L	G	L	P	L	S	L	Q	N					
consensus		C	F	S	S	S		C	K	L	G		F	D	V	N	I	G	H		S	Y	I	R	G	R	I	N	C	C	E	K	E	P	C	E	D	Q	P	F	F	P	G	L	P	L	S		P	N
B. constrictor		G	Y	Y	C	P	G	A	L	-	G	L	F	T	E	D	S	T	E	Y	E	A	I	C	H	G	T	E	T	K	C	I	N	I	V	G	H	R	Y	E	N	F	-	-	-	-	P	G	D	
C. d. terrificus		G	Y	Y	C	P	G	A	I	-	G	L	F	T	K	D	S	T	E	Y	E	A	I	C	K	G	T	E	T	K	C	I	N	I	V	G	H	R	Y	E	Q	F	-	-	-	-	P	G	D	
B. alternatus		G	Y	Y	C	P	G	A	L	-	G	L	F	T	E	D	S	T	E	Y	E	A	I	C	H	G	T	E	T	K	C	I	D	I	V	G	H	R	Y	E	N	F	-	-	-	-	P	G	D	
B. erythromelas		G	Y	Y	C	P	G	A	L	-	G	L	F	T	E	D	S	T	E	Y	E	A	I	C	H	G	T	E	T	K	C	I	D	I	V	G	H	R	H	E	N	F	F	S	A	V	P	E	D	
B. jararaca		G	Y	Y	C	P	G	A	L	-	G	L	F	T	E	D	S	T	E	Y	E	A	I	C	H	G	T	E	T	K	C	I	D	I	V	G	H	R	H	E	H	F	-	-	-	-	P	G	D	
B. jararacussu		G	Y	Y	C	P	G	A	L	-	G	L	F	T	E	D	S	T	E	Y	E	A	I	C	H	G	T	E	T	K	C	I	D	I</																