

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

Additional file 2. Gonnet's matrix

Family	Boidae			Colubridae			Pythonidae				Viperidae					Elapidae				
Species	<i>Bc</i>	<i>Ec</i>	<i>Eq</i>	<i>Sa</i>	<i>Mr</i>	<i>Bm</i>	<i>Bn</i>	<i>Bju</i>	<i>Bja</i>	<i>Be</i>	<i>Ba</i>	<i>Cdt</i>	<i>Lm</i>	<i>Gb</i>	<i>Pf</i>	<i>Pe</i>	<i>Ns</i>	<i>Om</i>	<i>Os</i>	<i>Pt</i>
<i>Bc</i>	100.0	66.7	65.6	63.6	58.8	92.8	91.9	96.7	95.0	91.9	96.7	92.3	91.7	89.5	83.4	82.9	60.1	62.8	60.7	63.4
<i>Ec</i>	82.0	100.0	98.4	87.0	56.3	65.6	64.2	65.0	66.7	63.1	66.1	66.7	63.4	69.4	67.2	67.2	73.8	76.0	73.2	75.4
<i>Eq</i>	80.3	98.4	100.0	86.4	56.8	64.5	63.1	63.9	65.6	62.0	65.0	66.7	62.8	68.3	66.1	66.1	73.8	75.4	72.7	74.9
<i>Sa</i>	77.2	91.8	91.8	100.0	54.9	63.6	61.7	62.5	64.1	60.6	63.6	63.6	60.9	65.2	63.6	63.6	69.6	71.7	69.0	72.8
<i>Mr</i>	76.4	74.3	74.9	73.4	100.0	58.8	55.9	59.3	58.8	56.5	59.3	58.8	56.6	59.9	54.9	54.4	55.7	54.1	53.6	55.2
<i>Bm</i>	94.5	78.7	77.0	74.5	74.2	100.0	88.1	92.8	94.5	88.1	92.8	89.0	87.8	86.7	82.3	82.3	59.6	61.7	59.6	62.8
<i>Bn</i>	94.1	78.6	77.0	73.4	73.7	90.3	100.0	91.4	90.3	96.2	92.4	86.5	84.9	85.4	78.4	77.8	57.8	61.0	58.8	61.5
<i>Bju</i>	97.2	79.8	78.1	75.0	75.8	93.9	92.4	100.0	93.9	91.4	97.2	91.2	90.1	87.8	81.8	81.2	58.5	61.2	59.0	62.3
<i>Bja</i>	97.8	81.4	79.8	76.6	76.4	94.5	94.1	96.1	100.0	90.3	93.9	90.1	89.0	88.4	84.0	83.4	59.6	62.8	60.7	63.4
<i>Be</i>	93.5	79.1	77.5	73.9	73.7	89.7	96.8	91.9	93.5	100.0	91.9	86.5	84.9	85.4	78.9	78.4	56.7	59.4	57.2	59.9
<i>Ba</i>	98.3	80.3	78.7	75.5	76.4	94.5	93.5	97.8	97.2	93.0	100.0	91.7	90.1	88.4	82.3	81.8	59.0	61.7	59.6	62.8
<i>Cdt</i>	97.2	81.4	80.9	78.3	74.7	91.7	91.4	94.5	95.0	90.8	95.6	100.0	91.2	89.0	84.0	83.4	61.2	63.9	61.7	64.5
<i>Lm</i>	91.7	75.4	74.3	72.3	71.4	88.4	85.9	90.1	89.5	85.4	90.6	91.2	100.0	85.6	81.2	80.7	58.5	61.2	59.0	62.3
<i>Gb</i>	97.8	82.0	80.3	78.3	74.7	92.8	93.0	95.0	96.7	92.4	96.1	95.6	90.1	100.0	86.7	85.1	62.8	67.2	65.0	67.2
<i>Pf</i>	93.9	81.4	79.8	77.7	72.0	88.4	88.1	91.2	91.7	88.1	92.3	92.8	87.3	93.9	100.0	97.2	61.2	66.7	64.5	65.6
<i>Pe</i>	93.9	81.4	79.8	77.2	72.5	88.4	88.1	91.2	91.7	88.1	92.3	92.8	87.3	93.9	98.9	100.0	62.3	67.2	65.0	66.1
<i>Ns</i>	76.0	84.2	84.2	82.1	70.5	73.2	72.7	73.8	75.4	72.2	74.3	77.0	72.1	76.5	76.5	77.6	100.0	88.5	86.3	86.9
<i>Om</i>	76.0	83.6	83.1	82.1	69.9	72.7	73.3	73.8	75.4	72.2	74.3	77.0	71.6	76.5	76.0	77.0	92.9	100.0	91.3	92.3
<i>Os</i>	73.2	79.8	79.2	78.8	67.2	69.9	70.6	71.0	72.7	70.1	71.6	74.3	68.9	73.8	73.8	74.9	89.6	91.3	100.0	88.0
<i>Pt</i>	76.5	84.2	83.6	82.1	72.1	73.8	73.8	74.9	76.0	73.3	75.4	77.6	73.2	77.6	77.0	78.1	91.3	92.9	88.5	100.0

Identity scores (IS)

Similarity scores (SS)

Legend: *Bc* - *Boa constrictor*; *Ec* - *Elaphe climacophora*; *Eq* - *Elaphe quadrivirgata*; *Sa* - *Sinonatrix annularis*; *Mr* - *Malayopython reticulatus*; *Bm* - *Bothrops moojeni*; *Bn* - *Bothrops neuwiedi*; *Bju* - *Bothrops jararacussu*; *Bja* - *Bothrops jararaca*; *Be* - *Bothrops erythromelas*; *Ba* - *Bothrops alternatus*; *Cdt* - *Crotalus durissus terrificus*; *Lm* - *Lachesis muta*; *Gb* - *Gloydus brevicaudus*; *Pf* - *Protobothrops flavoviridis*; *Pe* - *Protobothrops elegans*; *Ns* - *Notechis sutatus*; *Om* - *Oxyuranus microlepidotus*; *Os* - *Oxyuranus scutellatus*; *Pt* - *Pseudonaja textilis*.

Additional file 2 - Gonnet's similarity matrix obtained after multiple sequence alignment of sbγPLI from data bases (see Material and Methods), except for *B. constrictor* (present study). Percentages above and below the 100% diagonal line of the matrix represent identity (left side) and similarity (bottom line) scores, respectively, as indicated. Snake species families are identified on the top line.