

<i>Erythrolamprus mimus</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Erythrolamprus aesculapii</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Xenodon semicinctus</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Xenodon neuwiedii</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Xenodon merremi</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Philodryas olfersii</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Clelia clelia</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Oxyrhopus formosus</i>	LAGTEDEPTRDN
Hydrophobicity	
PI	
<i>Hydrodynastes gigas</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Helicops angulatus</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Conopsis vittatus</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Dipsas catesbyi</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Atractus flammigerus</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Leptodeira septentrionalis</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Hypsiglena torquata</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Farancia abacura</i>	QAGTEDDPAGDN
Hydrophobicity	
PI	
<i>Diadophis punctatus</i>	QAGTEDDPAGDN
Hydrophobicity	
PI	
<i>Carphophis amoenus</i>	QAGTEDDPAGDN
Hydrophobicity	
PI	
<i>Contia tenuis</i>	QAGMEDNPSGDN
Hydrophobicity	
PI	
<i>Heterodon simus</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Heterodon nasicus</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Heterodon platirhinos</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis radix</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis butleri</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis brachystoma</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis elegans</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis atratus</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis couchi</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis ordinoides</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis maricanus</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis cyrtopsis</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis melanogaster</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis sauritus</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis proximus</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Thamnophis sirtalis</i>	LAATEDDPSTRDN
Hydrophobicity	
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<i>Nerodia fasciata</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Nerodia sipedon</i>	LAATEDDPSTRDN
Hydrophobicity	
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<i>Nerodia rhombifer</i>	LAATEDDPSTRDN
Hydrophobicity	
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<i>Nerodia cyclopion</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Regina grahamii</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Regina septemvittata</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Storeria occipitomaculata</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Storeria dekayi</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Regina alleni</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Regina rigida</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Natrix natrix</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Natrix tessellata</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Natrix maura</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Sinonatrix percarinata</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Sinonatrix annularis</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Xenochrophis piscator</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Amphisma stolatum</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Rhabdophis leonardi</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Rhabdophis tigrinus</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Rhabdophis subminiatus</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Macropisthodon rudis</i>	LAGTEEDPSTRDN
Hydrophobicity	
PI	
<i>Lampropeltis getula</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Lampropeltis calligaster</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Pantherophis obsoletus</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Pantherophis alleghaniensis</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Pituophis catenifer</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Elaphe quadrivirgata</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Euprepophis conspicillatus</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Drymarchon corais</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Coluber constrictor</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Dasypeltis scabra</i>	QAVTEEDPAGDN
Hydrophobicity	
PI	
<i>Boiga irregularis</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Lycodon rufozonatus</i>	LAGTEEDPSTRDN
Hydrophobicity	
PI	
<i>Cyclophiops semicarinatus</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Dendrelaphis punctulatus</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Dendrelaphis subocularis</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Hemiaspis signata</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Pseudechis australis</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Acanthophis praelongus</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Naja nigricollis</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Naja melanoleuca</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Naja naja</i>	LAGTEEDPSTRDN
Hydrophobicity	
PI	
<i>Naja atra</i>	LAGTEEDPSTRDN
Hydrophobicity	
PI	
<i>Hemachatus haemachatus</i>	LAGTEEDPSTRDN
Hydrophobicity	
PI	
<i>Dendroaspis angusticeps</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Dendroaspis polylepis</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Ophiophagus hannah</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Boaedon fuliginosus</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Hypsigopus plumbea</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Crotalus atrox</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	
<i>Sistrurus catenatus</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Agkistrodon contortrix</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Viridovipera stejnegeri</i>	QVGTEEDPAGDN
Hydrophobicity	
PI	
<i>Bitis nasicornis</i>	LAVTEDDPSTRDN
Hydrophobicity	
PI	
<i>Bitis arietans</i>	LAVTEDDPSTRDN
Hydrophobicity	
PI	
<i>Cerastes cerastes</i>	LAGTEDDPTRDN
Hydrophobicity	
PI	
<i>Causus maculatus</i>	LAGTEDDPSTRDN
Hydrophobicity	
PI	
<i>Vipera berus</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Vipera aspis</i>	QVGTEEDPAGDN
Hydrophobicity	
PI	
<i>Acrochordus arafurae</i>	QAGTEEDPAGDN
Hydrophobicity	
PI	
<i>Morelia spilota</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Liasis fuscus</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Python regius</i>	QAGTEEDPSGDN
Hydrophobicity	
PI	
<i>Python molurus</i>	QAATGEEPNNNDN
Hydrophobicity	
PI	
<i>Epictia albipuncta</i>	LAATEDDPSTRDN
Hydrophobicity	
PI	

**Figure S1.** List of amino acid sequences for the H1-H2 extracellular loop of all species analyzed in this study, generated by Geneious v. 6.1.8 (Biomatters Ltd.). The hydrophobicity and isoelectric point (PI) of each residue is indicated below each sequence. The Q111L mutation results in increased hydrophobicity and the G120R mutation results in increased PI.

**Table S1.** Snake species included in this study, indicating the presence or absence of the resistance mutations of Na<sup>+</sup>/K<sup>+</sup>-ATPase and the presence or absence of toads in the diet. The dietary data are compiled almost exclusively from primary literature, a large portion of which includes comprehensive dietary studies rather than anecdotal observations. We considered most secondary literature to be unreliable for accurate dietary data. Due to the imperfect nature of dietary studies, we have taken a conservative approach and consider a species bufophagous if it is a generalist predator and there exists a record of at least one individual consuming a toad (i.e., marked “Yes” under “Toad in Diet”). Furthermore, we considered a bufadienolide-resistant snake bufophagous if it is a generalist predator with a high frequency of amphibians in the diet, even though there are no published records of toads. Bufadienolide-resistant species that are not considered bufophagous include primarily species with dietary specializations that do not include amphibians. Asterisks indicate species with diets including >80% toads or those that sequester dietary bufadienolides.

<b>Species</b>	<b>Resistance Mutations</b>	<b>Toad in Diet</b>	<b>References</b>
<i>Erythrolamprus mimus</i>	<b>Yes</b>	<b>No</b>	[1–2]
<i>Erythrolamprus aesculapii</i>	<b>Yes</b>	<b>No</b>	[1,3–8]
<i>Xenodon semicinctus</i>	<b>Yes</b>	<b>Yes</b>	[4]

<i>Xenodon neuwiedii</i>	<b>Yes</b>	<b>Yes</b>	[9–12]
<i>Xenodon merremi</i>	<b>Yes</b>	<b>Yes*</b>	[9–10,13–12]
<i>Philodryas olfersii</i>	<b>Yes</b>	<b>No</b>	[7,14–18]
<i>Clelia clelia</i>	<b>Yes</b>	<b>No</b>	[19]
<i>Oxyrhopus formosus</i>	<b>Yes</b>	<b>No</b>	[17–18]
<i>Hydrodynastes gigas</i>	<b>Yes</b>	<b>Yes</b>	[20]
<i>Helicops angulatus</i>	<b>Yes</b>	<b>No</b>	[7,14,21–24]
<i>Conophis vittatus</i>	<b>Yes</b>	<b>No</b>	[25]
<i>Dipsas catesbyi</i>	<b>Yes</b>	<b>No</b>	[23,26–27]
<i>Atractus flammigerus</i>	<b>Yes</b>	<b>No</b>	[15]
<i>Leptodeira septentrionalis</i>	<b>Yes</b>	<b>Yes</b>	[28–30]
<i>Hypsiglena torquata</i>	<b>Yes</b>	<b>Yes</b>	[31]
<i>Farancia abacura</i>	<b>No</b>	<b>No</b>	[32–33]
<i>Diadophis punctatus</i>	<b>No</b>	<b>No</b>	[34–35]
<i>Carphophis amoenus</i>	<b>No</b>	<b>No</b>	[34]
<i>Contia tenuis</i>	<b>No</b>	<b>No</b>	[36]
<i>Heterodon simus</i>	<b>Yes</b>	<b>Yes</b>	[37–38]
<i>Heterodon nasicus</i>	<b>Yes</b>	<b>Yes</b>	[37–39]
<i>Heterodon platirhinus</i>	<b>Yes</b>	<b>Yes*</b>	[37,40–41]
<i>Thamnophis radix</i>	<b>Yes</b>	<b>No</b>	[42–45]
<i>Thamnophis butleri</i>	<b>Yes</b>	<b>No</b>	[46–47]
<i>Thamnophis brachystoma</i>	<b>Yes</b>	<b>No</b>	[48–49]
<i>Thamnophis elegans</i>	<b>Yes</b>	<b>Yes</b>	[12,50–51]
<i>Thamnophis atratus</i>	<b>Yes</b>	<b>Yes</b>	[52–54]
<i>Thamnophis couchii</i>	<b>Yes</b>	<b>Yes</b>	[55–56]
<i>Thamnophis ordinoides</i>	<b>Yes</b>	<b>No</b>	[49,56]
<i>Thamnophis marcianus</i>	<b>Yes</b>	<b>Yes</b>	[57]
<i>Thamnophis cyrtopsis</i>	<b>Yes</b>	<b>Yes</b>	[58]
<i>Thamnophis melanogaster</i>	<b>Yes</b>	<b>No</b>	[59–63]
<i>Thamnophis sauritus</i>	<b>Yes</b>	<b>Yes</b>	[64]
<i>Thamnophis proximus</i>	<b>Yes</b>	<b>Yes</b>	[57,65–67]
<i>Thamnophis sirtalis</i>	<b>Yes</b>	<b>Yes</b>	[12,51,68–70]
<i>Nerodia fasciata</i>	<b>Yes</b>	<b>Yes</b>	[71–73]
<i>Nerodia sipedon</i>	<b>Yes</b>	<b>Yes</b>	[34–35,74]
<i>Nerodia rhombifer</i>	<b>Yes</b>	<b>No</b>	[71,74–76]
<i>Nerodia cyclopion</i>	<b>Yes</b>	<b>No</b>	[74–75]
<i>Regina grahami</i>	<b>Yes</b>	<b>No</b>	[71,74]
<i>Regina septemvittata</i>	<b>Yes</b>	<b>No</b>	[74,77–78]

<i>Storeria occipitomaculata</i>	<b>Yes</b>	<b>No</b>	[79–80]
<i>Storeria dekayi</i>	<b>Yes</b>	<b>No</b>	[79,81]
<i>Regina alleni</i>	<b>Yes</b>	<b>No</b>	[74,82–84]
<i>Regina rigida</i>	<b>Yes</b>	<b>No</b>	[74–75]
<i>Natrix natrix</i>	<b>Yes</b>	<b>Yes</b>	[85–88]
<i>Natrix tessellata</i>	<b>Yes</b>	<b>Yes</b>	[86,89]
<i>Natrix maura</i>	<b>Yes</b>	<b>No</b>	[90–91]
<i>Sinonatrix percarinata</i>	<b>No</b>	<b>No</b>	[92]
<i>Sinonatrix annularis</i>	<b>No</b>	<b>No</b>	[92]
<i>Xenochrophis piscator</i>	<b>Yes</b>	<b>Yes</b>	[93]
<i>Amphiesma stolatum</i>	<b>Yes</b>	<b>No</b>	[94]
<i>Rhabdophis leonardi</i>	<b>Yes</b>	<b>No</b>	[95]
<i>Rhabdophis tigrinus</i>	<b>Yes</b>	<b>Yes*</b>	[96–98]
<i>Rhabdophis subminiatus</i>	<b>Yes</b>	<b>Yes</b>	[99]
<i>Macropisthodon rudis</i>	<b>Yes</b>	<b>Yes</b>	[100]
<i>Lampropeltis getula</i>	<b>No</b>	<b>No</b>	[66]
<i>Lampropeltis calligaster</i>	<b>No</b>	<b>No</b>	[35,66]
<i>Pantherophis obsoletus</i>	<b>No</b>	<b>No</b>	[35,66,101]
<i>Pantherophis alleghaniensis</i>	<b>No</b>	<b>No</b>	[102]
<i>Pituophis catenifer</i>	<b>No</b>	<b>No</b>	[103]
<i>Elaphe quadrivirgata</i>	<b>No</b>	<b>No</b>	[96–97,104]
<i>Euprepiophis conspicillatus</i>	<b>No</b>	<b>No</b>	[105]
<i>Drymarchon corais</i>	<b>Yes</b>	<b>Yes</b>	[106–107]
<i>Coluber constrictor</i>	<b>No</b>	<b>No</b>	[35,66,108–109]
<i>Dasypeltis scabra</i>	<b>No</b>	<b>No</b>	[110–111]
<i>Boiga irregularis</i>	<b>No</b>	<b>No</b>	[112]
<i>Lycodon rufozonatus</i>	<b>Yes</b>	<b>Yes</b>	[113]
<i>Cyclophiops semicarinatus</i>	<b>No</b>	<b>No</b>	[105]
<i>Dendrelaphis subocularis</i>	<b>No</b>	<b>No</b>	[114–115]
<i>Dendrelaphis punctulatus</i>	<b>No</b>	<b>No</b>	[116–118]
<i>Hemiaspis signata</i>	<b>No</b>	<b>No</b>	[119–121]
<i>Pseudechis australis</i>	<b>No</b>	<b>No</b>	[121]
<i>Acanthophis praelongus</i>	<b>No</b>	<b>No</b>	[122]
<i>Naja nigricollis</i>	<b>Yes</b>	<b>Yes</b>	[123]
<i>Naja melanoleuca</i>	<b>Yes</b>	<b>Yes</b>	[123–126]
<i>Naja naja</i>	<b>Yes</b>	<b>Yes</b>	[127–128]
<i>Naja atra</i>	<b>Yes</b>	<b>Yes</b>	[127–129]
<i>Hemachatus haemachatus</i>	<b>Yes</b>	<b>Yes</b>	[126]

<i>Dendroaspis angusticeps</i>	No	No	[130–131]
<i>Dendroaspis polylepis</i>	No	No	[131]
<i>Ophiophagus hannah</i>	No	No	[132]
<i>Boaedon fuliginosus</i>	No	No	[133]
<i>Hypsiscopus plumbea</i>	No	No	[134]
<i>Crotalus atrox</i>	Yes	No	[135–137]
<i>Sistrurus catenatus</i>	No	No	[138–140]
<i>Agkistrodon contortrix</i>	Yes	No	[66,141–143]
<i>Viridovipera stejnegeri</i>	No	No	[127,144]
<i>Bitis nasicornis</i>	Yes	Yes	[124,145]
<i>Bitis arietans</i>	Yes	Yes	[146]
<i>Cerastes cerastes</i>	Yes	No	[147–148]
<i>Causus maculatus</i>	Yes	Yes	[149]
<i>Vipera berus</i>	No	No	[150–151]
<i>Vipera aspis</i>	No	No	[152–154]
<i>Acrochordus arafurae</i>	No	No	[155–156]
<i>Morelia spilota</i>	No	No	[157–158]
<i>Liasis fuscus</i>	No	No	[159–161]
<i>Python regius</i>	No	No	[162]
<i>Python molurus</i>	No	No	[163–165]
<i>Epictia albipuncta</i>	Yes	No	[166–167]

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