

Chytrid fungus acts as a generalist pathogen infecting species-rich amphibian families in Brazilian rainforests

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Table S1. Anuran species infected by *Batrachochytrium dendrobatidis* in the Atlantic forest (AF), Amazonia (AM) and Cerrado (CE) in the states of Pernambuco (PE), Alagoas (AL), Bahia (BA), Minas Gerais (MG), Espírito Santo (ES), Goiás (G), Rio de Janeiro (RJ), São Paulo (SP), Paraná (PR), Santa Catarina (SC), and Rio Grande do Sul (RS).

Family / Species	State	Biome	Source
Aromobatidae			
<i>Allobates olfersioides</i>	RJ	AF	Carnaval et al. (2006)
Bufo			
<i>Rhinella crucifer</i>	AL	AF	Present study
<i>Frostius pernambucensis</i>	AL	AF	Present study
<i>Melanoprhynchus dorsalis</i>	SC	AF	Rodriguez et al. (2014)
<i>Melanoprhynchus moreirae</i>	RJ, MG	AF	Sluys et al. (2007), Ferreira et al. (2008), Rodriguez et al. (2014)
Brachycephalidae			
<i>Brachycephalus didactylus</i>	RJ	AF	Rodriguez et al. (2014)
<i>Ischnocnema guentheri</i>	SP	AF	De Paula (2011), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Ischnocnema henselii</i>	SC	AF	Rodriguez et al. (2014)
<i>Ischnocnema nasuta</i>	SC	AF	Rodriguez et al. (2014)
<i>Ischnocnema parva</i>	SP	AF	De Paula (2011), Rodríguez et al. (2014)
<i>Ischnocnema randorum</i>	SP	AF	De Paula (2011)
Centrolenidae			
<i>Vitreorana eurygnatha</i>	RJ, SP, SC	AF	Rodriguez et al. (2014)
<i>Vitreorana</i> sp.	MG	AF	Rodriguez et al. (2014)
<i>Vitreorana uranoscopa</i>	RJ, SP, SC	AF	Rodriguez et al. (2014)
Ceratophryidae			
<i>Ceratophrys aurita</i>	ES, SP, SC	AF	Rodriguez et al. (2014)

Craugastoridae			
<i>Haddadus binotatus</i>	SP	AF	De Paula (2011), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Holoaden luederwaldti</i>	SP	AF	Rodriguez et al. (2014)
<i>Pristimantis ramagii</i>	AL	AF	Present study
<i>Pristimantis vinhai</i>	BA	AF	Present study
Cycloramphidae			
<i>Cycloramphus asper</i>	SP	AF	Rodriguez et al. (2014)
<i>Cycloramphus boraceiensis</i>	SP	AF	Gründler et al. (2012), Rodriguez et al. (2014)
<i>Cycloramphus brasiliensis</i>	RJ	AF	Rodriguez et al. (2014)
<i>Cycloramphus eleutherodactylus</i>	SP	AF	Rodriguez et al. (2014)
<i>Cycloramphus fuliginosus</i>	RJ	AF	Rodriguez et al. (2014)
<i>Cycloramphus izecksohni</i>	SC	AF	Rodriguez et al. (2014)
<i>Cycloramphus ohausi</i>	RJ	AF	Rodriguez et al. (2014)
<i>Cycloramphus semipalmatus</i>	SP	AF	Rodriguez et al. (2014)
<i>Cycloramphus stejnegeri</i>	RJ	AF	Rodriguez et al. (2014)
<i>Cycloramphus valae</i>	RS	AF	Rodriguez et al. (2014)
<i>Thoropa miliaris</i>	SP	AF	Carnaval et al. (2006), Rodriguez et al. (2014)
<i>Thoropa taophora</i>	SP	AF	Toledo et al. (2006a), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Thoropa petropolitana</i>	RJ	AF	Rodriguez et al. (2014)
Dendrobatidae			
<i>Adelphobates galactonotus</i>	PA	AM	Present study
Hemiphractidae			
<i>Fritziana fissilis</i>	MG, RJ, SP, SC	AF	Rodriguez et al. (2014)
<i>Fritziana goeldii</i>	RJ, SP	AF	Rodriguez et al. (2014)
<i>Fritziana ohausi</i>	SP	AF	Gründler et al. (2012), Rodriguez et al. (2014)
Hylidae			
<i>Aparasphenodon brunoii</i>	SP	AF	Rodriguez et al. (2014)
<i>Aplastodiscus arildae</i>	SP	AF	De Paula (2011)
<i>Aplastodiscus callipygius</i>	MG	AF	Toledo et al. (2006a), Gründler et al. (2012)
<i>Aplastodiscus leucopygius</i>	SP	AF	De Paula (2011), Gründler et al. (2012)
<i>Aplastodiscus cf. leucopygius</i>	SP	AF	Toledo et al. (2006a)
<i>Aplastodiscus perviridis</i>	MG	AF	Gründler et al. (2012), Rodriguez et al. (2014)
<i>Aplastodiscus sibilatus</i>	AL	AF	Lisboa et al. (2013)
<i>Dendropsophus anceps</i>	RJ	AF	Rodriguez et al. (2014)
<i>Dendropsophus minutus</i>	AL	AF	Becker & Zamudio (2011), De Paula (2011),

			Gründler et al. (2012), Rodriguez et al. (2014), Present study
<i>Dendropsophus microps</i>	MG	AF	De Paula (2011), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Dendropsophus seniculus</i>	RJ	AF	Rodriguez et al. (2014)
<i>Bokermannohyla astartea</i>	SP	AF	De Paula (2011)
<i>Bokermannohyla circumdata</i>	SP	AF	Toledo et al. (2006a), De Paula (2011), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Bokermannohyla gouveai</i>	MG	AF	Carnaval et al. (2006)
<i>Bokermannohyla hylax</i>	SP	AF	Toledo et al. (2006a), Gründler et al. (2012)
<i>Bokermannohyla luctosa</i>	SP	AF	Gründler et al. (2012), Rodriguez et al. (2014)
<i>Bokermannohyla pseudopseudis</i>	GO	CE	Ramalho et al. (2013)
<i>Bokermannohyla sapiranga</i>	GO	CE	Ramalho et al. (2013)
<i>Hypsiboas albomarginatus</i>	AL	AF	De Paula (2011), Rodríguez et al. (2014)), Present study
<i>Hypsiboas albopunctatus</i>	SP	AF	Toledo et al. (2006a)
<i>Hypsiboas bischoffii</i>	SP	AF	De Paula (2011), Rodriguez et al. (2014)
<i>Hypsiboas crepitans</i>	PE	AF	Present study
<i>Hypsobas exastis</i>	AL	AF	Present study
<i>Hypsiboas faber</i>	SP	AF	De Paula (2011), Vieira et al. (2012), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Hypsiboas freicanecae</i>	AL	AF	Carnaval et al. (2006), Lisboa et al. (2013)
<i>Hypsiboas latistriatus</i>	MG	AF	Gründler et al. (2012)
<i>Hypsiboas semilineatus</i>	MG	AF	Toledo et al. (2006a)
<i>Hypsiboas pardalis</i>	SP	AF	De Paula (2011), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Hypsiboas polytaenius</i>	SP	AF	Rodriguez et al. (2014)
<i>Hypsiboas pulchellus</i>	RS	AF	Rodriguez et al. (2014)
<i>Hypsiboas prasinus</i>	SP, SC, PR	AF	Gründler et al. (2012), Rodriguez et al. (2014)
<i>Itapotihyla langsdorffii</i>	SP	AF	Rodriguez et al. (2014)
<i>Phrynomedusa cf. marginata</i>	SP	AF	Toledo et al. (2006a)
<i>Phyllodytes cf. acuminatus</i>	AL	AF	Present study
<i>Phyllodytes cf. edelmoi</i>	AL	AF	Present study
<i>Phyllodytes edelmoi</i>	AL	AF	Present study
<i>Phyllodytes gyrinaethes</i>	AL	AF	Present study
<i>Phyllodytes tuberculatus</i>	BA	AF	Present study
<i>Phyllomedusa burmeisteri</i>	MG, ES	AF	Rodriguez et al. (2014)
<i>Phyllomedusa distincta</i>	SP, PR, SC, RS	AF	Rodriguez et al. (2014)
<i>Phyllomedusa nordestina</i>	AL	AF	Present study

<i>Phyllomedusa tetraploidea</i>	SC	AF	Rodriguez et al. (2014)
<i>Scinax albicans</i>	RJ	AF	Toledo et al. (2006a)
<i>Scinax alter</i>	SP	AF	De Paula (2011)
<i>Scinax ariadne</i>	SP	AF	Rodriguez et al. (2014)
<i>Scinax cf. eurydice</i>	MG	AF	Present study
<i>Scinax fuscovarius</i>	RS	AF	Rodriguez et al. (2014)
<i>Scinax granulatus</i>	RS	AF	Rodriguez et al. (2014)
<i>Scinax hayii</i>	SP	AF	Gründler et al. (2012), Rodriguez et al. (2014)
<i>Scinax machadoi</i>	MG	AF	Rodriguez et al. (2014)
<i>Scinax nebulosus</i>	AL	AF	Present study
<i>Scinax pachycrus</i>	PE	AF	Present study
<i>Scinax perpusillus</i>	RJ	AF	Rodriguez et al. (2014)
<i>Scinax ranki</i>	MG	AF	Rodriguez et al. (2014)
<i>Scinax trapicheiroi</i>	RJ	AF	Rodriguez et al. (2014)
<i>Trachycephalus mesophaeus</i>	SC	AF	Rodriguez et al. (2014)
Hylodidae			
<i>Crossodactylus bokermanni</i>	MG, SP	AF	Rodriguez et al. (2014)
<i>Crossodactylus caramaschii</i>	SP	AF	Carnaval et al. (2006), Rodriguez et al. (2014)
<i>Crossodactylus gaudichaudii</i>	RJ, SP	AF	Rodriguez et al. (2014)
<i>Crossodactylus sp.</i>	RJ	AF	Rodriguez et al. (2014)
<i>Hylodes amnicola</i>	MG	AF	Rodriguez et al. (2014)
<i>Hylodes asper</i>	SP	AF	De Paula (2011), Gründler et al. (2012), Rodriguez et al. (2014)
<i>Hylodes cardosi</i>	PR	AF	Vieira et al. (2012)
<i>Hylodes dactylocinus</i>	SP	AF	Toledo et al. (2006a)
<i>Hylodes glaber</i>	RJ	AF	Rodriguez et al. (2014)
<i>Hylodes heyeri</i>	SP	AF	Rodriguez et al. (2014)
<i>Hylodes japi</i>	RJ	AF	Vieira et al. (2013), Rodriguez et al. (2014)
<i>Hylodes lateristrigatus</i>	RJ, SP	AF	Rodriguez et al. (2014)
<i>Hylodes magalhaesi</i>	MG	AF	Carnaval et al. (2005), Toledo et al. (2006b), Gründler et al. (2012)
<i>Hylodes meridionalis</i>	RS	AF	Toledo et al. (2006a), Rodriguez et al. (2014)
<i>Hylodes nasus</i>	RJ	AF	Rodriguez et al. (2014)
<i>Hylodes ornatus</i>	RJ	AF	Vieira et al. (2013), Rodriguez et al. (2014)
<i>Hylodes perere</i>	MG	AF	Rodriguez et al. (2014)
<i>Hylodes perplicatus</i>	SC	AF	Toledo et al. (2006a), Rodriguez et al. (2014)
<i>Hylodes phyllodes</i>	SP	AF	Toledo et al. (2006a), De Paula (2011), Gründler et al. (2012)
<i>Hylodes sp. (aff. sazimai)</i>	SP	AF	Toledo et al. (2006a)

<i>Hylodes</i> sp.	SC	AF	Rodriguez et al. (2014)
<i>Megaelosia</i> cf. <i>boticariana</i>	SP	AF	Toledo et al. (2006a)
<i>Megaelosia massarti</i>	SP	AF	Toledo et al. (2006a)
<i>Megaelosia</i> sp.	RJ, SP	AF	Rodriguez et al. (2014)
Leptodactylidae			
<i>Adenomera marmorata</i>	SP	AF	Rodriguez et al. (2014)
<i>Leptodactylus labyrinthicus</i>	SP	AF	Rodriguez et al. (2014)
<i>Leptodactylus marmoratus</i>	SP	AF	Gründler et al. (2012)
<i>Leptodactylus</i> cf. <i>mystaceus</i>	AL	AF	Present study
<i>Leptodactylus notoaktites</i>	SP, PR	AF	Rodriguez et al. (2014)
<i>Leptodactylus podicipinus</i>	RS	AF	Rodriguez et al. (2014)
<i>Paratelmatobius lutzii</i>	RJ	AF	Rodriguez et al. (2014)
<i>Physalaemus</i> cf. <i>cuvieri</i>	AL	AF	Present study
<i>Physalaemus olfersii</i>	SP	AF	Rodriguez et al. (2014)
<i>Physalaemus signifer</i>	RJ	AF	Brito-Gitirana et al. (2009)
Microhylidae			
<i>Arcovomer passarellii</i>	RJ, SP	AF	Rodriguez et al. (2014)
<i>Stereocyclops incrassatus</i>	SC	AF	Rodriguez et al. (2014)
Odontophrynidae			
<i>Macrogenioglottus alipioi</i>	SP	AF	Rodriguez et al. (2014)
<i>Proceratophrys boiei</i>	MG, RJ, SP, PR, SC	AF	Rodriguez et al. (2014)
<i>Proceratophrys melanopogon</i>	RJ, SP	AF	Rodriguez et al. (2014)
<i>Proceratophrys renalis</i>	AL	AF	Present study
Ranidae			
<i>Lithobates catesbeianus</i>	RS	AF	Rodriguez et al. (2014)

Table S2. Anuran species infected with *Batrachochytrium dendrobatidis* in the Atlantic forest. H: Histology, P: PCR, qP: qPCR, C: Cytology, I: Isolation in culture. Based on data presented in Table S1.

Family	Genera	Species	Detection method	Species infected/sampled	Atlantic forest region
Aromobatidae	1	1	H	1/1	Southeast
Brachycephalidae	2	6	P, qP	6/50	Southeast, south
Bufo	3	4	qP	4/39	Northeast, southeast, south
Centrolenidae	1	3	qP	3/3	Southeast, south
Ceratophryidae	1	1	qP	1/3	Southeast, south
Craugastoridae	3	4	P, qP	4/14	Northeast, southeast
Cycloramphidae	2	13	H, P, qP	13/36	Southeast, south
Hemiphractidae	1	3	qP	3/13	Southeast
Hylidae	11	55	H, P, qP	55/209	Northeast, southeast, South
Hylodidae	3	23	H, P, qP, C, I	23/40	Southeast, south
Leptodactylidae	4	10	H, qP	10/64	Northeast, southeast, south
Microhylidae	2	2	qP	2/21	Southeast, south
Odontophrynidae	2	4	qP	4/21	Northeast, southeast, south
Ranidae	1	1	qP	1/2	South

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