

Data from Chytrid Fungus Experiment

Data Collection:

- Occurrence of chytridiomycosis in dead wild and captive frogs from Australia and Central America in 1993-1997. Results were based on histological examination.

Species	No. with chytridiomycosis/no. examined
<i>Taudactylus acutirostris</i>	7/9
<i>Litoria rheocola</i>	1/2
<i>Litoria nannotis</i>	2/4
<i>Taudactylus eungellensis</i>	1/1
<i>Litoria lesueri</i>	5/5
<i>Limnodynastes dumerillii</i>	1/1
<i>Litoria caerulea</i>	15/17
<i>Limno dynastes tasmaniensis</i>	4/4
<i>Mixophyes fleayi</i>	4/5
<i>Bufo marinus</i>	18/18
<i>Mixophyes fasciolatus</i>	35/35
<i>Litoria spenceri</i>	4/4
<i>Atelopus chiriquiensis</i>	4/5
<i>Atelopus varius</i>	3/3
<i>Bufo haematiticus</i>	2/2
<i>Cochranella prosoblepon</i>	2/2
<i>Cochranella albomaculata</i>	2/2
<i>Eutherodactylus emcelae</i>	8/8
<i>Eleutherodactylus cruentus</i>	2/2

28 Central American frogs and 42 Australian frog samples collected before frog population declines all tested negative.

Data Table 1 in: Berger, L. et al. 1998. Chytridiomycosis causes amphibian mortality associated with population declines in the rain forests of Australia and Central America. Proc. Natl. Acad. Sci. USA, 95:9031-9036.

Experimental Results:

Captive bred frogs: 8 individuals were controls and 6 were exposed to sporangia in fresh skin scrapings from a dead frog of the same species that had naturally acquired chytridiomycosis.

- Four frogs were exposed to water that had contained infected skin scrapings and four were untreated controls.

Group	Infected and Died or were Euthanized
Control (n=8)	0
Experimental (n=6)	6
Control(n=4)	0
Experimental (n=4)	4

Data from: Berger, L. et al. 1998. Chytridiomycosis causes amphibian mortality associated with population declines in the rain forests of Australia and Central America. Proc. Natl. Acad. Sci. USA, 95:9031-9036.

Observations:

Histological Image of Skin from Control Frogs	Histological Image of Skin from Infected Frogs just prior to death
 <p>source: http://frogs.org.au/ppt/KatieArdipradja-ChytridResistance/slide0007.html</p>  <p>http://www.wired.com/wiredscience/2009/10/amphibian-disease/</p>	 <p>source: http://frogs.org.au/ppt/KatieArdipradja-ChytridResistance/slide0007.html</p>  <p>http://www.wired.com/wiredscience/2009/10/amphibian-disease/</p>

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