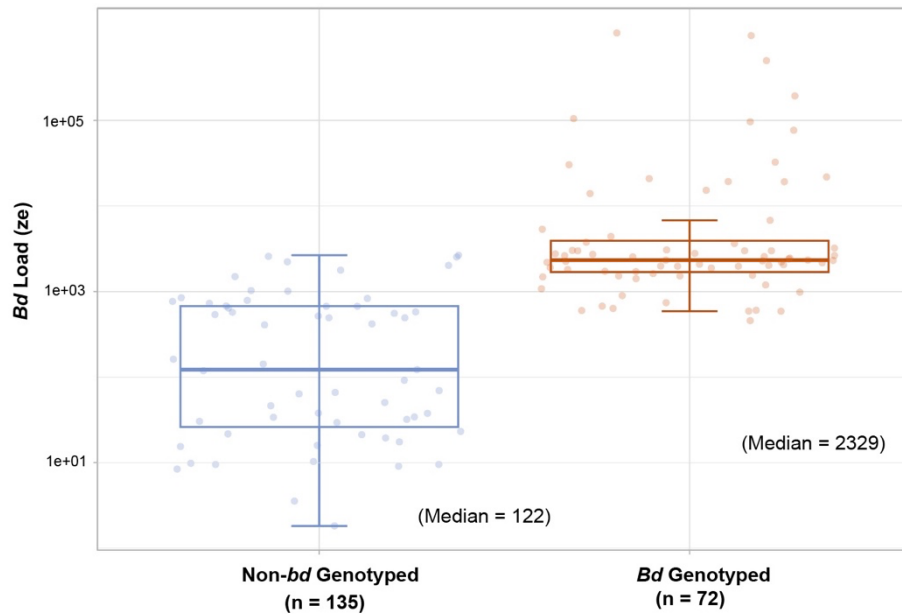


## Supplement



**Figure S1.** Combined dot plots, boxplots, and violin plots comparing the distribution of *Bd* load (Real-time TaqMan PCR assay; Boyle et al. 2004) for non-genotyped vs. genotyped (SNP Assay SC9\_200709\_CT; This study) toe DNA extracts from anurans collected at Tiputini Biodiversity Station, Ecuador. The x-axis represents the genotyping status. The (log-transformed) y-axis represents the *Bd* load in zoospore equivalents (ZE). The box represents the interquartile interval. The vertical line in the middle of the box represents the median ( $\tilde{X}$ ). The whiskers represent the maximum and minimum values of the load.

**Table S1.** Performance metrics of various models predicting *Bd* infection Status. The table lists the Root Mean Square Error (RMSE), Sigma, Log loss, Log Score, Spherical Score, Conditional  $R^2$ , Marginal  $R^2$ , Intraclass Correlation Coefficient (ICC), Akaike Information Criterion (AIC) weight, Corrected AIC (AICc) weight, Bayesian Information Criterion (BIC) weight, and the overall Performance Score for each model. The Performance Score was calculated by normalizing all fit indices (scaled from 0 to 1) and calculating their mean value for each model

Model	RMSE	Sigma	Log loss	Score log	Score spherical	$R^2$ conditional	$R^2$ marginal	ICC	AIC weight	AICc weight	BIC weight	Performance Score
modelWeight	0.47	1	0.62	-97.54	0.01	0.19	0.09	0.11	0.53	0.62	9.41E-01	0.69
modelAI	0.49	1	0.66	-91.80	0.03	0.05	0.00	0.05	0.00	0.00	7.49E-06	0.33
interaction_model1	0.45	1	0.60	-102.80	0.01	0.24	0.16	0.10	0.26	0.20	2.51E-05	0.32
interaction_model	0.45	1	0.60	-102.70	0.01	0.23	0.16	0.09	0.10	0.07	1.83E-06	0.24
modelAI_Weight	0.46	1	0.62	-98.49	0.01	0.22	0.10	0.14	0.04	0.04	5.92E-04	0.22
modelSVL	0.47	1	0.64	-95.30	0.01	0.14	0.05	0.09	0.03	0.04	5.84E-02	0.20
modelFull	0.46	1	0.62	-98.33	0.01	0.21	0.10	0.12	0.02	0.02	5.27E-05	0.20
modelAI_SVL	0.47	1	0.63	-96.14	0.01	0.17	0.06	0.12	0.00	0.00	3.44E-05	0.18
interaction_model2	0.46	1	0.61	-99.52	0.01	0.19	0.12	0.07	0.01	0.01	1.90E-07	0.18
interaction_model3	0.46	1	0.62	-98.20	0.01	0.20	0.09	0.13	0.00	0.00	1.66E-07	0.17
modelFamily	0.48	1	0.64	-Inf	0.01	NA	NA	NA	0.00	0.00	4.10E-07	0.16

**Table S2.** Anuran sample data for each individual: ID = Unique collector ID number (SFM= Shawn F. McCracken), Family = taxonomic level, Genus = taxonomic level, Species = taxonomic level, SVL\_mm = Snout to vent length in millimeters, Weight\_g = Weight in grams, Date = the date each individual was collected, AI = Aquatic Index, BdPresAbs = Presence (1) or absence (0) of *Batrachochytrium dendrobatidis* determined by qPCR (see Boyle et al. 2004) in the toe DNA extraction, SC9200709CT = Genotyping results from SNP assay; T/T = *BdGPL*, C/T = Co-infection or Hybrid, C/C = *BdBrazil/Asia2*, NOAMP = no amplification, *BdLoad\_ZE* = Load of *Batrachochytrium dendrobatidis* determined by qPCR in Zoospore Equivalents, Sex = The sex of the anuran host if known, NA = not applicable

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM0896	Strabomantidae	<i>Pristimantis</i>	<i>variabilis</i>	23.9	1	21-Mar-08	0	0	NOAMP	NA	NA
SFM0906	Strabomantidae	<i>Pristimantis</i>	<i>malkini</i>	25.7	1.8	3-Apr-08	0	0	NOAMP	NA	NA
SFM0907	Bufo	<i>Rhinella</i>	<i>marina</i>	75.2	59	3-Apr-08	2	0	NOAMP	NA	NA
SFM0910	Bufo	<i>Rhaebo</i>	<i>guttatus</i>	150	187	3-Apr-08	2	0	NOAMP	NA	NA
SFM0911	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	10	0.2	4-Apr-08	1	1	NOAMP	2534.8	NA
SFM0912	Hylidae	<i>Osteocephalus</i>	<i>taurinus</i>	82	24	2-Apr-08	1	0	NOAMP	NA	NA
SFM0913	Strabomantidae	<i>Pristimantis</i>	<i>ockendeni</i>	28	1.5	4-Apr-08	0	1	T/T	1726.5	NA
SFM0918	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	55	6.4	7-Apr-08	1	0	NOAMP	NA	NA
SFM0919	Hylidae	<i>Osteocephalus</i>	<i>yasuni</i>	4.63	5.8	7-Apr-08	1	0	NOAMP	NA	NA
SFM0920	Hylidae	<i>Dendropsophus</i>	<i>marmoratus</i>	4.43	7.1	7-Apr-08	1	0	NOAMP	NA	NA
SFM0922	Leptodactylidae	<i>Leptodactylus</i>	<i>discodactylus</i>	23	NA	7-Apr-08	2	1	T/T	4403.1	NA
SFM0923	Hylidae	<i>Dendropsophus</i>	<i>marmoratus</i>	44	6.9	10-Apr-08	1	0	NOAMP	NA	NA
SFM0931	Dendrobatidae	<i>Hyloxalus</i>	<i>bocagei cf.</i>	24	1.4	8-Apr-08	1	0	NOAMP	NA	NA
SFM0932	Microhylidae	<i>Chiasmocleis</i>	<i>bassleri</i>	29	2.5	9-Apr-08	2	0	NOAMP	NA	NA
SFM0934	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	15	0.3	10-Apr-08	2	0	NOAMP	NA	NA
SFM0935	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	21.6	0.8	9-Apr-08	3	0	NOAMP	122.4	NA
SFM0936	Hylidae	<i>Boana</i>	<i>lanciformis</i>	80.6	28	11-Apr-08	1	0	NOAMP	66.1	NA
SFM0937	Bufo	<i>Rhinella</i>	<i>margaritifera</i>	61.3	15.5	11-Apr-08	2	0	NOAMP	NA	female
SFM0938	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	35.5	1.5	12-Apr-08	0	1	T/T	2326.4	NA
SFM0939	Bufo	<i>Rhinella</i>	<i>marina</i>	112.7	170	12-Apr-08	2	0	NOAMP	NA	male ?
SFM0940	Hylidae	<i>Boana</i>	<i>lanciformis</i>	70	19	12-Apr-08	1	0	NOAMP	NA	NA
SFM0941	Strabomantidae	<i>Pristimantis</i>	<i>variabilis</i>	17.3	0.5	12-Apr-08	0	0	NOAMP	NA	NA
SFM0942	Strabomantidae	<i>Pristimantis</i>	<i>diadematus</i>	41	5.5	15-Apr-08	0	0	NOAMP	63.6	NA
SFM0943	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	32.4	1.8	14-Apr-08	3	0	NOAMP	NA	NA

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM0944	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	29.6	1.5	14-Apr-08	3	0	NOAMP	NA	NA
SFM0945	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	22	0.8	14-Apr-08	3	0	NOAMP	NA	NA
SFM0949	Strabomantidae	<i>Pristimantis</i>	<i>orphnolaimus</i>	21.2	0.7	14-Apr-08	3	0	NOAMP	NA	NA
SFM0950	Hylidae	<i>Osteocephalus</i>	NA	72.3	21	16-Apr-08	1	0	NOAMP	NA	NA
SFM0951	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	14.2	0.25	16-Apr-08	2	0	NOAMP	NA	NA
SFM0954	Hylidae	<i>Dendropsophus</i>	<i>parviceps</i>	17	0.4	18-Apr-08	2	0	NOAMP	NA	NA
SFM0955	Microhylidae	<i>Chiasmocleis</i>	<i>bassleri</i>	25.5	1.85	18-Apr-08	2	0	NOAMP	NA	NA
SFM0960	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	8.6	NA	18-Apr-08	2	1	T/T	499310.5	tadpole/ juvenile
SFM0967	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	9	0.5	18-Apr-08	2	1	NOAMP	1773.6	NA
SFM0968	Strabomantidae	<i>Pristimantis</i>	<i>lanthanites</i>	32.1	2.2	20-Apr-08	0	0	NOAMP	NA	NA
SFM0969	Bufonidae	<i>Rhaebo</i>	<i>guttatus</i>	138.4	182	20-Apr-08	2	0	NOAMP	NA	NA
SFM0970	Strabomantidae	<i>Pristimantis</i>	NA	NA	NA	18-Apr-08	0	1	T/T	1976.6	juvenile
SFM0973	Hylidae	<i>Nyctimantis</i>	<i>rugiceps</i>	60.4	12.5	22-Apr-08	1	0	NOAMP	NA	NA
SFM0974	Strabomantidae	<i>Oreobates</i>	<i>quixensis</i>	43	8	22-Apr-08	0	0	NOAMP	NA	NA
SFM0976	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	26.4	1.5	22-Apr-08	3	0	NOAMP	NA	NA
SFM0982	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	27	1.1	25-Apr-08	3	0	NOAMP	NA	male
SFM0983	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	23.8	1.1	25-Apr-08	3	0	NOAMP	NA	NA
SFM0986	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	25.8	1.4	25-Apr-08	3	0	NOAMP	NA	NA
SFM0987	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	23.6	1	25-Apr-08	3	0	NOAMP	9.1	male ?
SFM0988	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	23	1	25-Apr-08	3	0	NOAMP	NA	male ?
SFM0995	Hylidae	<i>Osteocephalus</i>	<i>fuscifacies</i>	65.7	16.9	26-Apr-08	1	0	NOAMP	NA	NA
SFM0996	Strabomantidae	<i>Pristimantis</i>	<i>malkini</i>	41.4	11	26-Apr-08	0	0	NOAMP	NA	NA
SFM1000	Strabomantidae	<i>Oreobates</i>	<i>quixensis</i>	47.3	11.4	27-Apr-08	0	0	NOAMP	23.2	NA
SFM1001	Strabomantidae	<i>Oreobates</i>	<i>quixensis</i>	36.1	4.6	28-Apr-08	0	0	NOAMP	21.7	NA
SFM1002	Leptodactylidae	<i>Engystomops</i>	<i>petersi</i>	32.8	3.7	28-Apr-08	2	1	T/T	20880.7	NA
SFM1004	Strabomantidae	<i>Pristimantis</i>	<i>lanthanites</i>	20	0.8	29-Apr-08	0	0	NOAMP	91.9	NA
SFM1007	Strabomantidae	<i>Oreobates</i>	<i>quixensis</i>	30.6	2.8	2-May-08	0	0	NOAMP	NA	NA
SFM1009	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus cf.</i>	28.6	1.8	2-May-08	0	1	T/T	1616.9	female
SFM1010	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus cf.</i>	19.1	0.5	2-May-08	0	0	NOAMP	NA	male

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM1012	Hylidae	<i>Osteocephalus</i>	<i>yasuni</i>	41.6	3.4	2-May-08	1	0	NOAMP	NA	male
SFM1014	Microhylidae	<i>Chiasmocleis</i>	<i>bassleri</i>	30.1	3.3	4-May-08	2	0	NOAMP	NA	female
SFM1015	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus</i> cf.	29.9	3	4-May-08	0	0	NOAMP	NA	female
SFM1016	Dendrobatidae	<i>Ameerega</i>	<i>bilinguis</i>	22	1	6-May-08	2	1	NOAMP	492.7	NA
SFM1017	Hylidae	<i>Phyllomedusa</i>	<i>vaillantii</i>	51.5	9.2	6-May-08	1	1	T/T	3763.3	NA
SFM1018	Strabomantidae	<i>Pristimantis</i>	<i>ockendeni</i>	19	0.6	6-May-08	0	0	NOAMP	NA	NA
SFM1019	Leptodactylidae	<i>Edalorhina</i>	<i>perezi</i>	42	5.2	6-May-08	1	1	T/T	6783.2	NA
SFM1020	Hylidae	<i>Osteocephalus</i>	<i>taurinus</i>	71.4	15.4	6-May-08	1	0	NOAMP	19.4	NA
SFM1023	Hylidae	<i>Nyctimantis</i>	<i>rugiceps</i>	25.5	1.6	9-May-08	1	0	NOAMP	NA	juvenile
SFM1024	Centrolenidae	<i>Teratohyla</i>	<i>midas</i>	18.4	0.6	9-May-08	1	0	NOAMP	NA	NA
SFM1025	Hylidae	<i>Scinax</i>	<i>ruber</i>	31.3	2.1	10-May-08	1	0	NOAMP	NA	NA
SFM1027	Hylidae	<i>Dendropsophus</i>	<i>marmoratus</i>	35.3	2.7	11-May-08	1	0	NOAMP	NA	NA
SFM1028	Hylidae	<i>Dendropsophus</i>	<i>parviceps</i>	17.1	0.3	1-May-08	2	0	NOAMP	10.3	NA
SFM1030	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	11.4	0.2	10-May-08	1	1	T/T	2546.4	juvenile
SFM1031	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	15.4	0.4	10-May-08	2	0	NOAMP	9.8	NA
SFM1033	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	29.5	NA	10-May-08	3	1	T/T	30207.5	female
SFM1034	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	NA	NA	10-May-08	2	0	NOAMP	NA	juvenile
SFM1035	Hylidae	<i>Scinax</i>	<i>cruentomma</i>	23.8	0.9	13-May-08	1	0	NOAMP	NA	male
SFM1036	Hylidae	<i>Dendropsophus</i>	<i>marmoratus</i>	33.9	2.6	13-May-08	1	1	T/T	1194	male
SFM1037	Hylidae	<i>Osteocephalus</i>	<i>taurinus</i>	64.6	11.9	14-May-08	1	0	NOAMP	NA	male
SFM1039	Hylidae	<i>Osteocephalus</i>	<i>taurinus</i>	78.4	21	15-May-08	1	0	NOAMP	NA	female
SFM1045	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus</i>	23.4	0.7	16-May-08	0	0	NOAMP	NA	NA
SFM1048	Dendrobatidae	<i>Ranitomeya</i>	<i>ventrimaculatus</i>	NA	NA	10-May-08	2	1	T/T	1977.6	NA
SFM1055	Strabomantidae	<i>Pristimantis</i>	<i>diadematus</i>	22.9	0.9	17-May-08	0	0	NOAMP	69.6	male
SFM1056	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus</i>	24.5	1	17-May-08	0	0	NOAMP	NA	NA
SFM1057	Hylidae	<i>Boana</i>	<i>geographica</i>	45.8	4.5	17-May-08	1	0	NOAMP	NA	NA
SFM1058	Strabomantidae	<i>Pristimantis</i>	<i>diadematus</i>	23.8	1.1	17-May-08	0	0	NOAMP	NA	NA
SFM1059	Hylidae	<i>Osteocephalus</i>	<i>taurinus</i>	65.1	15.9	17-May-08	1	0	NOAMP	NA	NA
SFM1062	Leptodactylidae	<i>Lithodytes</i>	<i>lineatus</i>	36.3	4.4	20-May-08	2	1	T/T	1881.6	NA
SFM1063	Leptodactylidae	<i>Leptodactylus</i>	<i>pentadactylus</i>	56.1	9.9	21-May-08	2	1	T/T	193388.1	NA

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM1066	Strabomantidae	<i>Niceforonia</i>	<i>nigrovittata</i>	18.6	1.1	22-May-08	0	1	T/T	2627.5	NA
SFM1067	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	14.8	0.4	22-May-08	0	1	T/T	2716.9	NA
SFM1068	Strabomantidae	<i>Pristimantis</i>	<i>peruvianus cf.</i>	9.8	0.1	22-May-08	0	1	T/T	2793.2	juvenile
SFM1070	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	22.2	0.5	24-May-08	0	1	NOAMP	34.2	NA
SFM1074	Leptodactylidae	<i>Edalorhina</i>	<i>perezi</i>	34.7	4.1	26-May-08	1	1	T/T	2022.8	NA
SFM1075	Bufonidae	<i>Rhinella</i>	<i>margaritifera</i>	29.97	2.3	26-May-08	2	1	T/T	1710.9	female
SFM1076	Bufonidae	<i>Rhinella</i>	<i>margaritifera</i>	20.1	0.5	26-May-08	2	1	T/T	2245.5	NA
SFM1079	Strabomantidae	<i>Pristimantis</i>	<i>ockendeni cf.</i>	12.1	0.2	29-May-08	0	0	NOAMP	NA	NA
SFM1080	Microhylidae	<i>Chiasmocleis</i>	<i>bassleri</i>	20.6	0.7	29-May-08	2	1	T/T	76751.6	NA
SFM1084	Leptodactylidae	<i>Edalorhina</i>	<i>perezi</i>	31.8	3.7	5-Jun-08	1	1	T/T	675.2	NA
SFM1085	Leptodactylidae	<i>Leptodactylus</i>	<i>discodactylus</i>	32.1	3.7	7-Jun-08	2	1	NOAMP	831.4	NA
SFM1086	Leptodactylidae	<i>Leptodactylus</i>	<i>wagneri</i>	17.65	0.8	7-Jun-08	2	1	NOAMP	765.8	juvenile
SFM1090	Leptodactylidae	<i>Leptodactylus</i>	<i>discodactylus</i>	27.2	2	9-Jun-08	2	1	T/T	2991	NA
SFM1094	Aromobatidae	<i>Allobates</i>	<i>femoralis</i>	22.4	1.3	24-Jun-08	2	1	T/T	19253.6	male?
SFM1103	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	28.2	1.2	5-Jul-08	1	1	T/T	1411.1	NA
SFM1104	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	15.8	0.2	5-Jul-08	1	1	NOAMP	572	juvenile
SFM1105	Dendrobatidae	<i>Ranitomeya</i>	<i>duellmani</i>	16.1	0.4	4-Jul-08	2	1	NOAMP	679	NA
SFM1106	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	15.4	0.3	4-Jul-08	0	1	NOAMP	493.7	NA
SFM1107	Strabomantidae	<i>Pristimantis</i>	<i>diadematus</i>	26.9	1.2	4-Jul-08	0	1	T/T	599.6	NA
SFM1109	Strabomantidae	<i>Pristimantis</i>	<i>peruvianus</i>	39.3	4.1	4-Jul-08	0	1	NOAMP	672.2	NA
SFM1111	Strabomantidae	<i>Pristimantis</i>	<i>paululus</i>	16.5	2.75	4-Jul-08	0	1	T/T	32510.8	NA
SFM1113	Hylidae	<i>Dendropsophus</i>	<i>bifurcus</i>	33.8	2.6	4-Jul-08	1	1	T/T	895.3	female
SFM1114	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	19.5	0.6	5-Jul-08	0	1	NOAMP	1495.2	NA
SFM1115	Bufonidae	<i>Rhinella</i>	<i>margaritifera</i>	11.1	3.2	5-Jul-08	2	1	T/T	603	NA
SFM1116	Strabomantidae	<i>Pristimantis</i>	<i>malkini</i>	29.5	2.4	5-Jul-08	0	1	NOAMP	577.5	NA
SFM1117	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	15.8	0.4	5-Jul-08	0	1	NOAMP	556.5	NA
SFM1119	Hylidae	<i>Boana</i>	<i>lanciformis</i>	24.4	0.4	7-Jul-08	1	1	T/T	1077.8	juvenile
SFM1121	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	31.7	2.4	7-Jul-08	0	1	NOAMP	788.5	NA
SFM1122	Hylidae	<i>Phyllomedusa</i>	<i>vaiillantii</i>	29.4	1.5	7-Jul-08	1	1	NOAMP	643.2	juvenile
SFM1126	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	13	0.2	8-Jul-08	0	1	T/T	587.3	NA

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM1129	Strabomantidae	<i>Oreobates</i>	<i>quixensis</i>	53.3	17.9	8-Jul-08	0	1	NOAMP	539.2	NA
SFM1132	Bufo	<i>Rhinella</i>	<i>marina</i>	15.6	0.4	9-Jul-08	2	1	NOAMP	517.6	NA
SFM1134	Leptodactylidae	<i>Engystomops</i>	<i>petersi</i>	22.9	1	10-Jul-08	2	1	NOAMP	843.7	NA
SFM1135	Dendrobatidae	<i>Hyloxalus</i>	<i>bocagei</i>	22.5	1.5	10-Jul-08	1	1	T/T	1551.5	NA
SFM1136	Hylidae	<i>Scinax</i>	<i>ruber</i>	28.9	1.7	10-Jul-08	1	1	T/T	742	NA
SFM1137	Hylidae	<i>Boana</i>	<i>geographica</i>	41.1	3.3	10-Jul-08	1	1	T/T	590.5	NA
SFM1138	Hylidae	<i>Osteocephalus</i>	<i>yasuni</i>	53.7	7	11-Jul-08	1	1	T/T	981.3	male
SFM1139	Ranidae	<i>Lithobates</i>	<i>palmipes</i>	84.1	70	11-Jul-08	2	1	T/T	1807.9	male
SFM1140	Leptodactylidae	<i>Adenomera</i>	<i>andreae</i>	23.6	1.2	10-Jul-08	2	1	T/T	634.9	NA
SFM1141	Leptodactylidae	<i>Adenomera</i>	<i>andreae</i>	23	1.2	10-Jul-08	2	1	NOAMP	418.5	NA
SFM1146	Hylidae	<i>Boana</i>	<i>cinerascens</i>	33.1	2.2	12-Jul-08	1	1	NOAMP	407.6	NA
SFM1147	Microhylidae	<i>Chiasmocleis</i>	<i>bassleri</i>	20.3	0.9	12-Jul-08	2	1	T/T	458.1	NA
SFM1152	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	22.5	1	11-Jul-08	3	1	NOAMP	726.6	male
SFM1153	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	22.6	1	11-Jul-08	3	1	NOAMP	671	male
SFM1154	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	23.3	0.95	11-Jul-08	3	1	NOAMP	1028.5	male
SFM1155	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	28.8	2	11-Jul-08	3	1	NOAMP	2655.6	female
SFM1156	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	23.1	1.05	11-Jul-08	3	1	T/T	1481.1	male
SFM1158	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	22.1	1	11-Jul-08	3	1	T/T	3633.2	male
SFM1159	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	32	2.6	11-Jul-08	3	1	T/T	2088.6	female
SFM1160	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	21.6	0.8	11-Jul-08	3	1	T/T	15248.9	male
SFM1163	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	33.4	2.5	16-Jul-08	3	1	NOAMP	2574.3	female
SFM1165	Hylidae	<i>Osteocephalus</i>	<i>fuscifacies</i>	12.5	0.2	16-Jul-08	1	1	NOAMP	9.5	juvenile
SFM1168	Leptodactylidae	<i>Edalorhina</i>	<i>perezi</i>	39	5.25	21-Jul-08	1	1	T/T	2197.6	NA
SFM1171	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	22.6	1	22-Jul-08	3	1	NOAMP	15.9	NA
SFM1172	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	23	1.1	22-Jul-08	3	0	NOAMP	NA	NA
SFM1173	Strabomantidae	<i>Pristimantis</i>	<i>variabilis</i>	25	1.2	25-Jul-08	0	0	NOAMP	NA	NA
SFM1174	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	26.8	2	25-Jul-08	0	1	NOAMP	15.5	NA
SFM1176	Leptodactylidae	<i>Leptodactylus</i>	<i>mystaceus</i>	37.9	5.55	26-Jul-08	2	0	NOAMP	NA	male
SFM1179	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus cf.</i>	24	1	29-Jul-08	0	1	T/T	1525.2	NA
SFM1180	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	15.8	0.4	30-Jul-08	0	1	NOAMP	2018.7	NA

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM1182	Strabomantidae	<i>Strabomantis</i>	<i>sulcatus</i>	NA	NA	31-Jul-08	0	1	T/T	2999.4	NA
SFM1190	Leptodactylidae	<i>Leptodactylus</i>	<i>wagneri</i>	29.5	2.9	5-Aug-08	2	1	T/T	2451.8	juvenile
SFM1191	Strabomantidae	<i>Pristimantis</i>	<i>ockendeni cf.</i>	13.9	2.5	6-Aug-08	0	1	NOAMP	2228.3	NA
SFM1192	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	41.2	6.7	6-Aug-08	0	1	T/T	3217.3	female
SFM1193	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	79	24	8-Aug-08	1	1	NOAMP	161.8	female?
SFM1195	Hylidae	<i>Scinax</i>	<i>ruber</i>	39.7	3.8	10-Aug-08	1	1	NOAMP	37.7	NA
SFM1204	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	29.4	1.3	13-Aug-08	1	1	NOAMP	34	juvenile
SFM1207	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	24.3	1.3	13-Aug-08	0	1	NOAMP	8.4	NA
SFM1210	Strabomantidae	<i>Pristimantis</i>	<i>conspicillatus</i>	24.3	1.2	13-Aug-08	0	0	NOAMP	NA	unknown
SFM1212	Leptodactylidae	<i>Lithodytes</i>	<i>lineatus</i>	18	0.35	16-Aug-08	2	0	NOAMP	NA	juvenile
SFM1213	Strabomantidae	<i>Pristimantis</i>	<i>martiae cf.</i>	12.8	0.25	16-Aug-08	0	1	NOAMP	118.7	juvenile
SFM1214	Hylidae	<i>Scinax</i>	<i>ruber</i>	27	0.6	16-Aug-08	1	1	T/T	1983.1	unknown
SFM1217	Hylidae	<i>Phyllomedusa</i>	<i>vaillantii</i>	38.1	4	18-Aug-08	1	1	NOAMP	1010	unknown
SFM1218	Strabomantidae	<i>Oreobates</i>	<i>quixensis</i>	33.9	3.5	18-Aug-08	0	1	NOAMP	17.5	unknown
SFM1219	Hylidae	<i>Boana</i>	<i>nympha</i>	28.6	0.9	18-Aug-08	1	1	NOAMP	30.3	unknown
SFM1220	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	29.3	1.8	16-Aug-08	3	1	T/T	2053.5	female
SFM1222	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	23.3	0.8	16-Aug-08	3	1	T/T	1519.9	male
SFM1223	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	30.2	1.9	16-Aug-08	3	1	T/T	2217.7	female?
SFM1224	Leptodactylidae	<i>Engystomops</i>	<i>petersi</i>	16.2	0.3	19-Aug-08	2	1	NOAMP	142	NA
SFM1228	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	NA	NA	11-Jul-08	0	1	T/T	96583.8	NA
SFM1230	Hylidae	<i>Osteocephalus</i>	NA	NA	NA	16-Jul-08	1	0	NOAMP	NA	NA
SFM1232	Hylidae	<i>Osteocephalus</i>	NA	11.2	0.05	16-Jul-08	1	1	T/T	13942.2	froglet
SFM1239	Bufo	<i>Rhinella</i>	<i>margaritifera</i>	NA	NA	18-Aug-08	2	1	NOAMP	38	NA
SFM1243	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	37.3	4	25-Aug-08	3	1	T/T	1909.7	female
SFM1245	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	35	2.6	23-Aug-08	3	1	T/T	2167.5	female
SFM1246	Hylidae	<i>Osteocephalus</i>	<i>planiceps</i>	74	37	26-Aug-08	1	0	NOAMP	NA	NA
SFM1247	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	28.5	1.9	25-Aug-08	3	1	T/T	978777.9	female
SFM1255	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	NA	NA	6-Jul-08	0	1	T/T	2991.2	tadpole
SFM1256	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	10	0.1	31-Jul-08	0	1	T/T	2396.3	NA
SFM1260	Hylidae	<i>Osteocephalus</i>	<i>cabrerai</i>	47.1	7.5	27-Aug-08	1	1	NOAMP	9.5	NA



ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM1264	Leptodactylidae	<i>Leptodactylus</i>	<i>pentadactylus</i>	318	6	31-Aug-08	2	1	T/T	2757.6	NA
SFM1266	Strabomantidae	<i>Niceforonia</i>	<i>nigrovittata</i>	17.1	0.7	30-Aug-08	0	1	T/T	5345	male
SFM1268	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus cf.</i>	13.4	0.25	1-Sep-08	0	1	T/T	2331.9	NA
SFM1269	Strabomantidae	<i>Pristimantis</i>	<i>croceoinguinis</i>	15.8	0.4	2-Sep-08	0	1	T/T	2561	NA
SFM1272	Strabomantidae	<i>Pristimantis</i>	<i>altamazonicus cf.</i>	15.2	0.3	2-Sep-08	0	1	T/T	3022.8	NA
SFM1273	Leptodactylidae	<i>Leptodactylus</i>	<i>rhodomystax</i>	32.9	3.5	4-Sep-08	2	1	T/T	21785.5	NA
SFM1279	Hylidae	<i>Trachycephalus</i>	NA	74.3	28	6-Sep-08	1	1	NOAMP	21.2	male
SFM1280	Hylidae	<i>Dendropsophus</i>	<i>marmoratus</i>	41.4	5.5	6-Sep-08	1	1	T/T	1048415.5	NA
SFM1285	Strabomantidae	<i>Pristimantis</i>	<i>croceoinguinis</i>	15.5	0.3	6-Sep-08	0	1	T/T	2637	NA
SFM1287	Strabomantidae	<i>Pristimantis</i>	<i>acuminatus</i>	294	3	6-Sep-08	0	0	NOAMP	NA	NA
SFM1288	Hylidae	<i>Trachycephalus</i>	NA	73.9	38	7-Sep-08	1	0	NOAMP	NA	male
SFM1313	Strabomantidae	<i>Pristimantis</i>	<i>peruvianus cf.</i>	20	0.6	6-Oct-08	0	1	T/T	2311.1	NA
SFM1328	Hylidae	<i>Boana</i>	<i>fasciata</i>	33.1	2.9	21-Oct-08	1	1	T/T	3060.4	NA
SFM1329	Strabomantidae	<i>Pristimantis</i>	NA	28.1	1.7	23-Oct-08	0	0	NOAMP	NA	NA
SFM1330	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	22.9	0.9	25-Oct-08	3	1	T/T	2276	male
SFM1332	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	24.5	1.2	25-Oct-08	3	1	T/T	19166.2	female
SFM1333	Strabomantidae	<i>Pristimantis</i>	<i>variabilis</i>	14.2	0.25	29-Oct-08	0	1	NOAMP	46.2	NA
SFM1336	Strabomantidae	<i>Pristimantis</i>	<i>diadematus</i>	18.4	0.65	3-Nov-08	0	0	NOAMP	NA	NA
SFM1337	Strabomantidae	<i>Pristimantis</i>	<i>paululus</i>	18.6	0.55	3-Nov-08	0	0	NOAMP	NA	NA
SFM1338	Strabomantidae	<i>Pristimantis</i>	<i>malkini</i>	25.4	1.3	3-Nov-08	0	0	NOAMP	NA	NA
SFM1339	Hylidae	<i>Osteocephalus</i>	NA	43.5	4.3	5-Nov-08	1	0	NOAMP	NA	NA
SFM1340	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	23.6	1.05	12-Nov-08	3	0	NOAMP	NA	male
SFM1341	Strabomantidae	<i>Pristimantis</i>	<i>waoranii</i>	23.8	0.95	12-Nov-08	3	0	NOAMP	NA	NA
SFM1342	Hylidae	<i>Scinax</i>	<i>ruber</i>	34.3	3.1	15-Nov-08	1	0	NOAMP	NA	NA
SFM1343	Hylidae	<i>Scinax</i>	<i>ruber</i>	35.3	4	15-Nov-08	1	1	NOAMP	50.6	NA
SFM1344	Hylidae	<i>Scinax</i>	<i>ruber</i>	35.1	3.2	15-Nov-08	1	1	NOAMP	29.5	NA
SFM1345	Hylidae	<i>Scinax</i>	<i>ruber</i>	34.1	2.5	15-Nov-08	1	0	NOAMP	NA	NA
SFM1346	Hylidae	<i>Scinax</i>	<i>ruber</i>	30.8	1.8	15-Nov-08	1	1	NOAMP	3.6	NA
SFM1347	Hylidae	<i>Scinax</i>	<i>ruber</i>	29.9	1.6	15-Nov-08	1	1	NOAMP	32.1	NA
SFM1348	Hylidae	<i>Scinax</i>	<i>ruber</i>	28.3	1	15-Nov-08	1	0	NOAMP	NA	NA

ID	Family	Genus	Species	SVL_mm	Weight_g	Date	AI	BdPresAbs	SC9200709CT	BdLoad_ZE	Sex
SFM1349	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	24	0.95	15-Nov-08	3	0	NOAMP	NA	NA
SFM1350	Strabomantidae	<i>Pristimantis</i>	<i>aureolineatus</i>	29.5	1.95	15-Nov-08	3	1	NOAMP	1.8	NA
SFM1354	Strabomantidae	<i>Pristimantis</i>	<i>duellmani</i>	NA	NA	15-Nov-08	0	0	NOAMP	NA	tadpole
SFM1368	Strabomantidae	<i>Pristimantis</i>	<i>diadematus</i>	15	0.25	18-Nov-08	0	1	T/T	104764.3	NA

**Table S3.** Results of the logistic regression investigating the relationship between host traits (“Term”) and *Batrachochytrium dendrobatidis* (*Bd*) infections in anurans from Tiputini Biodiversity Station, Ecuador. The “Estimate” column provides the coefficient estimates for each predictor in the logistic regression model. The “std. err.” column shows the standard errors associated with each coefficient estimate. The “Statistic” column displays the z-value (Wald statistic) for each predictor. The “p.value” column presents the p-values associated with each coefficient estimate. Note that the fixed term “Weight” and the intercept were both found to be significant ( $p < 0.001$ ) as highlighted by an asterisk(\*).

Term	Estimate	Standard Error	Statistic	p-value
(Intercept)*	1.70	0.53	3.18	0.01
Weight*	-1.00	0.30	-3.30	$9.52 \times 10^{-4}$

**Table S4.** Results of the F test for overall significance for two statistical models, the null model (modelNull) with no predictors and the model including 'Weight' as a predictor (modelWeight). The metrics include AIC (Akaike Information Criterion), BIC (Bayesian Information Criterion), Log-likelihood, Deviance, Chi-squared statistic (Chisq), Degrees of freedom (Df), and P-value (Pr(>Chisq))

Model	AIC	BIC	Log-likelihood	Deviance	Chisq	Df	Pr(>Chisq)
modelNull	270.08	276.63	-133.04	266.08			
modelWeight	259.09	268.91	-126.55	253.09	12.987	1	$3.16 \times 10^{-4}$

**Table S5.** Summary of key statistics for the weight (in grams) of the nine different amphibian families sampled in this study.

<b>Family</b>	<b>Min</b>	<b>1<sup>st</sup> Quartile</b>	<b>Median</b>	<b>3<sup>rd</sup> Quartile</b>	<b>Max</b>	<b>Mean</b>
<i>Aromobatidae</i>	1.30	1.30	1.30	1.30	1.30	1.30
<i>Bufo</i>	0.40	2.30	15.50	170.00	187.00	68.88
<i>Centrolenidae</i>	0.60	0.60	0.60	0.60	0.60	0.60
<i>Dendrobatidae</i>	0.25	0.38	0.45	1.10	1.50	0.72
<i>Hylidae</i>	0.05	1.50	3.30	9.20	38.00	7.64
<i>Leptodactylidae</i>	0.30	1.20	3.70	4.80	9.90	3.41
<i>Microhylidae</i>	0.70	0.90	1.85	2.50	3.30	1.85
<i>Ranidae</i>	70.00	70.00	70.00	70.00	70.00	70.00
<i>Strabomantidae</i>	0.10	0.70	1.08	1.94	17.90	1.86

### Literature Cited

Boyle DG, Boyle DB, Olsen V, Morgan JAT, Hyatt AD (2004) Rapid quantitative detection of chytridiomycosis (*Batrachochytrium dendrobatidis*) in amphibian samples using real-time Taqman PCR assay. Dis Aquat Org 60:141-148