

Species	Relative degree of arousal	Vocalisation type	Behavioral context of vocalization		Non-vocal indicator/s of arousal level	Studies reporting on our stimuli set*
Hourglass treefrog (<i>Dendropsophus ebraccatus</i>)	Low	Advertisement call	Competition for sexual advertisement**		Escalating competitive level in call timing interactions	(19, 20)
	High	Aggressive call				
American alligator (<i>Alligator mississippiensis</i>)	Low	Distress call	Human handling		Closed palatal valve (24)	Unpublished data. Recordings provided by Reber, S. A.
	High				Opened palatal valve (24)	
Black-capped chickadee (<i>Poecile atricapillus</i>)	Low	Mobbing call	Visual presentation of a low threat predator model (i.e., Great horned owl)		Increase of neural activity in the telencephalic auditory areas in response to high threat (55)	Unpublished data. Recordings provided by J.V.C., J.H., and C.B.S.
	High		Visual presentation of a high threat predator model (i.e., Northern saw-whet owl)			
Common raven (<i>Corvus corax</i>)	Low	Defensive call	Approach by a dominant individual		Confrontation without physical attack or chase (16,54)	Unpublished data. Recordings provided by Pasukonis, A.
	High				Confrontation with physical attack or chase (16,54)	
African bush elephant (<i>Loxodonta africana</i>)**	Low	Distress call	Disturbance in social context	Suckling context: The calf is begging unsuccessfully for access to the bottle or breast; calf is disturbed while suckling or bottle feeding	Low occurrence of high arousal indicators****	(49)
	Medium***			Protest context: The calf is repeatedly touched (e.g., with the trunk at the genitals, mouth, or temporal glands), pushed, kicked, tusked, chased by another elephant	Medium occurrence of high arousal indicators****	
	High			Assistance context: The calf has fallen over or has been separated from the group	High occurrence of high arousal indicators****	
Giant panda (<i>Ailuropoda melanoleuca</i>)	Low	Distress call	Anogenital stroking and feeding		Low occurrence of motor activity	(50)
	High		After stroking; placement in the incubator; spontaneous agitation		High occurrence of motor activity	
Domestic pig (<i>Sus scrofa domensticus</i>)	Low	Distress call	Immobility test		The piglet lies still	(51)
	High				The piglet fiercely attempts to escape from human handlers	
Barbary macaque (<i>Macaca sylvanus</i>)	Low	Nocturnal disturbance call	Scanning of surroundings in response to noisy approach		Increase in temporal distance from the moment of disturbance originating the vocalization to the point where lack of danger is assessed	(52)
	High					
Human (<i>Homo sapiens</i>)	Low	Sentences with emotional intonation (Tamil)	Laboratory setting for audio recordings		Native Tamil speakers express sadness	(53)
	High				Native Tamil speakers express anger	