

SMITHSONIAN INSTITUTION

NATIONAL MUSEUM OF NATURAL HISTORY – DIVISION OF MAMMALS DESTRUCTIVE SAMPLING APPLICATION

Name:	Ligiane Martins Moras			Title:	PhD			
Department/Institution: Departament of Ver			tebrate Zoology - Division of Mammals/ NMNH					
Address: 1000 Constitution Ave, NW, Washington DC 20004								
City/State: Washington, DC		Country/Postal Code:		20013-7012				
Email: MorasL@si.edu			Phone:					

Student requests will be considered if submitted with the consent of their advisor. Provide contact information for the person accepting responsibility for a student request.

Name:	Don E. Wilson		Title: Dr		
Department/Institution:		Departament of Vertebrate Zoology -	- Division of	f Mammals/ NMNH	
Email:	WILSOND@si.edu	Phone:	(202)63	3-1265	

Purpose and scientific merit of the proposed research: The material will be used as part of my doctoral thesis project entitled "Phylogeny of Cynomops and taxonomy of Cynomops abrasus (Temminck, 1826) (Chiroptera, Molossidae)". The main objective of my study is the to build a phylogeny for the genus Cynomops focusing in the review of the species Cynomops abrasus, using morphological and molecular sequence data.

- Specimens to be included (add attachments if necessary): 503877 Cynomops paranus (male) Panama
- 260180 C. planirostris (male) Brazil (Southeastern)
- 260181 C. planirostris (female) Brazil (Southeastern)
- 445943 C. planirostris Colombia
- 445944 C. planirostris Colombia
- 552738 C. planirostris (female) Paraguay
- 556087 C. planirostris (male)- Brazil (North)
- 339864 C. mexicanus
- 339865 C. mexicanus
- 339868 C. mexicanus

Sampling method(s) to be employed (please be precise as to amount of tissue and specimen source): Removal of skulls, including mandibles, through mouth using a bistoury.

Provide evidence of your experience and competence with this protocol: I have experience with specimen's preparation since 2006 and I removed around 500 skulls since then.

Why are samples obtained from museum specimens preferable to freshly obtained tissues? Are fresh samples available? Does not apply

Explain why NMNH specimens must be used. Have other collections been approached? I need analyse the skulls of these exemplares because in NMNH collection: 1) There are just females of C. paranus with avaiable skulls; 2)Most of the C. planirostris with skull available are from Venezuela, and I need see the other localities to analyse biogeographic variation between them; 3) There are seven specimens identified as C. mexicanus, but I need see the skulls to check if the specimens are correctly identified, since C. mexicanus is known to occur only in Mexico and these specimens are from Panama.

Any other information that you feel is pertinent to this request: I selected just a part of the specimens to have skulls removed (10 specimens out of 37).

To begin the permissions process, submit this form to: <u>mammalloans@si.edu</u>