

The Rufford Foundation

Final Report

Congratulations on the completion of your project that was supported by The Rufford Foundation.

We ask all grant recipients to complete a Final Report Form that helps us to gauge the success of our grant giving. The Final Report must be sent in **word format** and not PDF format or any other format. We understand that projects often do not follow the predicted course but knowledge of your experiences is valuable to us and others who may be undertaking similar work. Please be as honest as you can in answering the questions – remember that negative experiences are just as valuable as positive ones if they help others to learn from them.

Please complete the form in English and be as clear and concise as you can. Please note that the information may be edited for clarity. We will ask for further information if required. If you have any other materials produced by the project, particularly a few relevant photographs, please send these to us separately.

Please submit your final report to jane@rufford.org.

Thank you for your help.

Josh Cole, Grants Director

Grant Recipient Details	
Your name	Milene Garbim Gaiotti
Project title	Breeding biology and Population Viability of the endangered endemic Araripe manakin (<i>Antilophia bokermanni</i> , Aves: Pipridae)
RSG reference	18778-1
Reporting period	March 2016 – Feb 2017
Amount of grant	£2860
Your email address	enelim@gmail.com
Date of this report	March 13, 2017

1. Please indicate the level of achievement of the project's original objectives and include any relevant comments on factors affecting this.

Objective	Not achieved	Partially achieved	Fully achieved	Comments
Provide Reproductive success data				
Provide parental care data				
Provide reproductive parameters (nest season, incubation period, nest construction)				
Genetic mating system assessment				
Population viability analyses				

2. Please explain any unforeseen difficulties that arose during the project and how these were tackled (if relevant).

The major difficulty I had was on the budget. As when I sent my project to analyses I was still doing fieldwork and so collecting the blood samples, I did not know for sure how many samples I would have and just did an estimation of it, and it was more than I first planned (which was good for the project but not for the budget). Also in 2016 there was a significant increase in the price of the lab analyses costs. The way I handled it was using the money for the fuel and camera that wasn't as priority as the lab analyses all to cover the lab expenses.

3. Briefly describe the three most important outcomes of your project.

As the species had no scientific breeding biology data, all results are very important for the Araripe manakin conservation. The most important result from my project was to find that they are not monogamous as it has been used in the literature, which affects the way the species reproduces and consequently their conservation and PVA analyses. The other relevant information is that their nest survival is higher than expected for other Neotropical species with open nest. Also to confirm that only females are involved on the parental care tasks from nest construction to feeding the nestlings which directly affects the species mating behaviour and also that females mate with more than one male in one breeding season, once we find multiple paternity inside of the same nest.

4. Briefly describe the involvement of local communities and how they have benefitted from the project (if relevant).

5. Are there any plans to continue this work?

Yes, I am currently applying for post docs and looking for financial support to keep this study going on. With more years sampled we would have a better overview of the species dynamic and how it behaves with all the environmental changes that the area is constantly suffering such as fire, long draught periods and deforestation. I intent to study the different patches in the area to have a measurement and a good scientific base to choose which area should be priority to conservation for the species benefit (considering number of nests sites, genetic diversity and number of individuals on that patch for example).

6. How do you plan to share the results of your work with others?

This study is part of my doctorate thesis, which it will be available on line soon on my University website and is already available on my university library. Besides that I intent to publish the rest of my work on international scientific magazines and also keep presenting on International meetings. One of the papers from my thesis was already accept for publication. I also presented part of my work on scientific meetings.

7. Timescale: Over what period was The Rufford Foundation grant used? How does this compare to the anticipated or actual length of the project?

I received the grant in March 2016, when I was finishing the third fieldwork season. The grant was used after that for the lab analyses of genetic paternity a fundamental part of the data that need to be inserted on the PVA analyses. The length of my project was 48 months total, by the time I was granted with the Rufford award I was done with the fieldwork but did not have the funding to analyse the data collected in the last breeding season.

8. Budget: Please provide a breakdown of budgeted versus actual expenditure and the reasons for any differences. All figures should be in £ sterling, indicating the local exchange rate used.

Item	Budgeted Amount	Actual Amount	Difference	Comments
Fuel to fieldwork transportation	700	0		Used for lab analyses instead
Lab work (DNA	2000	3218.65	1218.65	As the lab analyses were

extraction, PCR analyses and sequence analyses)				bigger than first planned, once I didn't know how many samples I would actually have when I submit my project because I was still collecting the data in the field. I used the whole budget for it giving the importance of this data. The extra (placed in the difference column) was afforded by other source.
Time lapse camera	160	0		Used for lab analyses instead
TOTAL	£2860	£3218.65	£1218.65	

9. Looking ahead, what do you feel are the important next steps?

The first step I believe is to publish the results and share with who need them: scientific community and also the NGO who do a big social work with the species locally and need scientific data to support their arguments and give the bird the best protection they can.

10. Did you use The Rufford Foundation logo in any materials produced in relation to this project? Did The Rufford Foundation receive any publicity during the course of your work?

Yes. I used the logo in all my presentations since I received the grant, including at the Animal Behaviour Society meeting in 2016 where I oral presented part of my project as well during my doctorate defence and in the acknowledgement of my thesis and paper.

11. Please provide a full list of all the members of your team and briefly what was their role in the project.

12. Any other comments?