

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 | Ni Putu Dian Pertiwi |
| Project title | Integrating education and conservation through DNA forensic investigation of sea turtle trade in Central Indonesia |
| RSG reference | 22043-1 |
| Reporting period | May 2018 |
| Amount of grant | £4970 |
| Your email address | putudianpertiwi@gmail.com |
| Date of this report | May 26, 2018 |

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 |
|--|--------------|--------------------|----------------|---|
| Workshop on tissue sampling and stranded sea turtle | | | | The training was held as in the schedule and managed to give the participants the insight on how the genetic samples will help conservation of sea turtle. During this training, we also build networking with local community and government official on genetic and conservation. |
| Training on basic forensic genetic | | | | The training was conducted in Bali and Madura as in the schedule. The participants were very excited to get this training. Through this activity, we also managed to build the MoU between Bionesia and the collaborator universities in these training. |
| Sea turtle tissue samples collection from illegal trade case | | | | Some samples collected from traditional restaurant in Bali, from by-catch, and from tissue swap of confiscated sea turtle that placed in the rehabilitation area. Several samples also given to us to analyse, which were collected from the confiscated sea turtle before this project started. The samples were only collected from Bali. |
| Laboratory work & data analysis of the samples collected | | | | We managed to analyse the tissue samples collected during this project |
| Paper writing | | | | We are still finishing the paper draft. It's still delayed due to the difficulties of sample collection. The paper will be predicted to be submitted in the next 1-2 months. |
| Building networking | | | | Managed to build local networking to gather information on sea turtle trade and conservation, but still only in Bali area. |

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

Collecting the samples of traded sea turtle is very hard, especially for the sea turtle that were confiscated by police officers. This very rarely happened. Samples from the illegal market (restaurant that sell sea turtle meat) were also hard to collect, since the merchant was very careful in selling the sea turtle meat. Collecting tissue samples from the life sea turtle was also challenging, since we need to ensure not to stress the animal. Although there were several difficulties in collecting those samples, we get the information and help, on collecting samples from restaurant. We also given the samples of confiscated sea turtle during illegal trade, although the samples collected before this project started. Since one of our team is a veterinarian, he helps us to collect the samples from life sea turtle without making stress on the animal. During this project, we only managed to collect samples from Bali.

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

- Start the networking between local sea turtle conservationist. This will help to get the latest information on the sea turtle trade happened in Indonesia.
- Promote the application of forensic genetics to the conservation of sea turtles. Students, staff, and researchers that work with scientific based project will have the idea on applying genetics for their work.
- Providing the information on the sea turtle illegal market trade in Bali and adding the genetic database information on sea turtles.

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

Local communities were very crucial for the successful of the first workshop "Tissue sampling and stranded sea turtle", especially for the sea turtle conservation communities. The sea turtle conservation community in Serangan, Bali, was given us the permission on using their facility for the workshop. They also help us with the living sea turtle being rehabilitated in their facility, which we used it as the example of sample collection on living sea turtle.

Local people also help us to get the information on the traditional restaurant that sells sea turtle meat. Some of them also help us to collect the samples.

5. Are there any plans to continue this work?

We are planning to continue this work by collecting sample of sea turtles that were caught by the police during the illegal trade heist, and also working on the sea turtle samples that were sent to us to analyse in the future by our collaborators. We also plan to work with other parties to expand this work, not only in Bali, but also throughout Indonesia.

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

Publishing the result of on this research project in a scientific publication is a way to share our finding. Moreover, the finding will also share on conference, seminar, and workshop. The scientific publication will also share to the government and local conservation communities.

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

The RSG was used for 12 months. Although, originally the sample collections was proposed to be accomplished in 6 months, the accomplishment of sample collection was delayed due to the difficulty of finding the trade case and gathering the information of illegal market. Attempt has been made to complete the sample collection and data analysis in one year using the budget requested in the proposal.

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 |
|--------------------------|-----------------|---------------|------------|---|
| Transport & fuel | 1170 | 1233 | -63 | Covered from unused budget from food section* |
| Internet & communication | 145 | 145 | 0 | |
| Accommodation | 327 | 327 | 0 | |
| Food | 1988 | 1384 | +604* | |
| Subsistence payment | 242 | 242 | 0 | |
| Material & Supplies | 420 | 961 | -541 | Covered from unused budget from food section* |
| Equipment | 678 | 678 | 0 | |

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

Once the research finding published, effort should be made to convince the government authorities that sea turtle trade was still happening in Bali, and prepare the action plan to work on that.

Enhancing the public awareness by giving the conservation education through workshop or fun activities.

Strengthening the enforcement and patrolling on the area known as the area of sea turtle illegal market.

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?

The Rufford Foundation logo was used in every workshop we held. There were total of three workshops during this project. We also mention Rufford Foundation and this project grant during our meeting with NOAA and WWF Indonesia, to discuss about future sea turtle research in Indonesia.

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

Ni Putu Dian Pertiwi: Project leader, arranging all the activities in this project and working on data analysis & paper writing

Andrianus Sembiring: Arranging each workshop, giving lecture in the workshop, building network with NGO's

Astria Yusmalinda: Arranging workshop and giving lecture in the workshop

Ricca Mahatma Putri: Working on the laboratory work of the samples collected

I Nyoman Giri Putra: Collecting samples and build network within university sector

Maulid Dio Suhendro: Building network with local communities, NGO's and government official in sea turtle conservation; working on data analysis

12. Any other comments?

The assistance and cooperation of local communities and universities to make all the activities in this project happened is very great. The enthusiasm of every participants in each workshop is also high, which they suggested us to hold similar training. The grant has greatly facilitated the successful of this event, and also helps us to provide the training needed by the communities and academicians in central Indonesia. Hence, The Rufford Foundation is greatly appreciated.