

(Abroad •) Internship report form (Student)

2015/07/06

Name	Mohamed Abdallah Mohamed Moustafa
Laboratory	Wildlife Biology and Medicine
Year (Grade)	D4
Internship institution	The equine clinic, the veterinary department, Free University of Berlin
Internship period	Internship period: 06/08/2015- 06/18/2015 (Departure Date from Sapporo: 06/08/2015, Arrival Date in Sapporo: 06/19/2015)
Purpose	- Identifying the work atmosphere and creating new contact list for future career opportunity in Melbourne University.

- The reason why I chose this institute

The veterinary department of the Free University of Berlin is a prestigious and high ranked institute in Europe. Within this department, there are many good research projects of high value being performed. The researchers in this institute have come from different nationalities, this diversity has been positively reflected on the social atmosphere of this place.

- Result of the activity

The internship was mainly focusing to cover three aspects; equine medicine, wildlife diseases and the infection medicine. To cover these three categories I visited three institutes at the Veterinary Department:

1. The equine clinic.
2. The center for infection medicine (Robert-Von-Ostertag Haus)
3. Leibniz Institute for Zoo and Wildlife Research

The following activities were done in each institute:

A- The equine Clinic:

The equine clinic is a huge facility, it receives more than 2000 cases per year. It has many



Fig 1. At the equine clinic.

divisions such as the internal medicine, orthopedic surgery, radiology and

ultrasonography. During my stay there, the clinic received about 40 cases. Equine colic, lameness, castration, hernia were among the clinical cases we received. During my stay, I have participated in the clinical examination, diagnosis and



Fig 2. A horse outfitted with Inertial Measurement Units



Fig 3. Whole blood count.

treatment of these cases.

I have gained knowledge about the laboratory techniques which are used there for the diagnosis of some clinical diseases. At the laboratory I have learned to check the whole blood picture, estimate the blood biochemical elements and the blood smears' staining to be examined by light microscope. Moreover, I had the opportunity to get knowledge about how they can diagnose the source of lameness through using radiology and transmitter units.

I have collected information about the preoperative precautions and postoperative care at the clinic. I have also observed some surgical operations performed at the clinic such as abscess removal, hernia and castration.



Fig 4. Ultrasonography.



Fig 5. Hoof fracture.



Fig 6. Castration.



Fig 7. Preoperational.

At every morning and before they receive the new clinical cases, the clinic staff gather in the meeting room to discuss the previous day's clinical cases and to share the ideas on how to provide a suitable treatment to each case. At this meeting they shared the radiation films, the blood pictures and the case history of each case. After the meeting, all the clinic staff go to the animal housings to check each clinical case and to make modifications on the treatment procedures if needed.



Fig 8. Morning meeting.



Fig 9 Morning meeting.

B- The center for infection medicine (Robert-Von-Ostertag Haus)

The centre for infection medicine is one of the prestigious centres in Germany that interested in infectious diseases. It has 5 divisions: the institute of immunology, the institute of microbiology, the institute of parasitology, the institute of animal health and the institute of virology.



Fig 10 In front of the center of infection medicine.

During my visit, I have been guided to identify the type of research being

practiced at this center. I have been in touch with the members of the institute of virology. This institute is mainly focusing on the study of Herpes virus. However, some of the researchers are interested in the canine distemper virus. In addition, I had a good idea about the techniques and laboratory devices they have at this institute. There, the working atmosphere is very healthy and there are researchers from different countries such as Egypt, Belgium, Jordan, India and Germany.



Fig 11. With Prof. Dr. Benedikt Kaufer the project director.



Fig 12. With Dusan Kunec a postdoc fellow.

C- Leibniz Institute for Zoo and Wildlife Research

It is an interdisciplinary research institute dedicated to developing the scientific basis for novel approaches to wildlife conservation. It is the biggest institute for wildlife research in Germany. During my one day visit



Fig 13. Leibniz Institute for Zoo and Wildlife Research

the Department of Wildlife Diseases I met Prof. Alex

Greenwood, the head of the department. He introduced me to some members of the department such as Azza Mansour who is an Egyptian Phd student in his department. It was very good opportunity to see how big and good this institute is, it has 5 departments and 2 research groups. I have been introduced to the facilities within the department of wildlife diseases. In this department they have

many fields such as bacteriology, virology, parasitology, pathology, toxicology and electron microscopy.

D- Gathering information about futures through meetings:

To understand the job requirements and the future career opportunities had 3 meetings:

- 1- Prof. Dr. Gehlen Heidrun, the head of the internal medicine group of the equine clinic.
- 2- Prof. Dr. Benedikt Kaufer, the project director of the institute of virology.
- 3- Prof. Dr. Alex Greenwood, the head of the department of Wildlife diseases, the Leibniz Institute for Zoo and Wildlife Research.



Fig 14. Wit Prof. Dr. Gehlen Heidrun.

Positive impact of the activity

My visit to Berlin was really helpful, it provided me with knowledge about future opportunities and possible collaborative research. Meeting with many scientists there helped me to understand the needs and requirements to find a career at one of the 3 research institutes I visited. There are many scholarships I can apply for as Humboldt, Marie Curie and DAAD. There are also the residency program which needs to a German language proficiency. After this internship I do recommend Berlin as a destination city for researchers in Japan. I found this city livable and safe with many attractions and opportunities.

- Advice for my junior fellows

The most important advice to my fellows is to start early in the preparation of the internship, especially those with families or foreigners. Most important job requirements are the quality of publications, novelty of research, and the language proficiency.

Approval of supervisor	Institution • Official title • Name Wildlife Biology and Medicine, Professor Toshio Tsubota 印
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- ※3 The Steering Committee of the Leading Program will first confirm the content of this report and report will be forwarded to the Educational Affairs Committee for credits evaluation.

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