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平成28年度研究助成（海外渡航費）研究成果報告書

平成 28 年 9 月 27 日

公益財団法人遺伝学普及会 代表理事 殿

貴財団より助成のありました研究の成果を下記のとおり報告します。

海外渡航者氏名 Caroline Delandre

出席学会等名称 Australian Fly Meeting (Ausfly), Visits at University of Melbourne and Monash University

開催場所 Warburton (Ausfly)

開催期間 平成28年 9月 15日 ~ 平成28年 9月 17日

渡航期間 平成28年 9月 12日 ~ 平成28年 9月 24日

研究成果の概要

During my visit to Melbourne, Australia, I was able to visit Coral Warr's group at Monash University where I presented my results in addition to discussing their research with several members of the laboratory. They are mainly working on a *Drosophila* gene called *torso-like*, a member of the MACPF (Membrane attack complex/perforin-like) protein superfamily. These proteins are known for their role in immunity (e.g., the complement component), but their research has found novel roles in the development of different tissues.

After this visit, I attended the Australian Fly Meeting in Warburton, where I was able to listen to talks from most of the Australian fly laboratories, which gave me a good overview of the main topics studied there. It was a small meeting so I could easily interact with many people and learn about the Australian research system. I was the only representative of a laboratory outside of Australia and was able to share my experience of working in Japan. Several PhD students and postdocs were very interested in the research opportunities available in Japan. I met other neurodevelopmental biologists and I am in the process of starting a collaboration with a laboratory working on a subject closely related to mine. This collaboration has the potential to strengthen my project.

Finally, I visited Philip Batterham's group at the University of Melbourne, where I was able to attend their weekly lab meeting and talk with several researchers individually. They work on the effect of insecticides on the *Drosophila* nervous system to try to improve insecticide design. Several PhD students were very interested in continuing their career in Japan and had many questions related to Japanese research.

Overall, this was a great experience to learn about the exciting research topics done in Australia and share my experience in Japan. I was happily surprised to get good feedback from my talks and to meet several researchers wanting to come to work in Japan. This will certainly help foster a better collaborative environment between Japan and Australia.

(Please find the abstract for my presentation attached with this report.)