

# 成果報告書

日期：106 年 8 月 13 日

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## 一. 緣起

This is a very precious opportunity and an honor for me to spend my summer time in Prof. Chuong's lab. Prof. Chuong's lab is an outstanding lab studying skin appendages regeneration in Department of Pathology, Keck School of Medicine, University of Southern California. I am truly thankful to have this opportunity, thanks to my advisor during my master thesis and medical research journey, Prof. Yen-Hua Huang. She recommended me to deeply dig into Insulin-like Growth Factor Signaling in stem cells and how it would contribute to tissue regeneration. And luckily, Prof. Chuong was generous to have me in his lab to study how insulin-like growth factor signaling plays a role in regulating feather formation.

## 二. 赴國外實習機構或企業之學習心得

This is my very first time in the US and doing research here in University of Southern California is amazing! Prof. Chuong was really kind and he assigned my whole stay studying feather growth with a senior associate professor, Dr. Ping Wu. This is a very cool experience to fit in the schedule of an experienced member in research field and gained a lot of knowledge from him. For instance, Dr. Wu has a very tight schedule but he does experiment in an extremely careful and slow way. It is amazing to witness that someone could finish so many work in such a short time with such extreme carefulness. Also, every lab member is really kind and all specialized in different fields. As Prof. Chuong says, nowadays, we have to cooperate with people and experts from different background and think outside of the boxes to know the beauty of nature from diverse angles. The beauty of Nature is always there, and it is also our

responsibility to realize it and fully understand it.

### 三. 國外實習之生活體驗

As I mentioned earlier, it is my first time in the US and in Los Angeles, a beautiful place but notorious for its uncertainty in safety. However, I luckily found a place near Health Science Campus of University of Southern California and also a place near the main campus for my nearly two month stay in Los Angeles. The safety of students and faculty is one of the things that University of Southern California cares a lot about. They established the department of public safety and have them driving patrols in the campus day and night. They also have a lot of so called “yellowish man” in uniforms standing at nearly 80% of blocks and corners near campus. They also provide free cruisers after 6pm everyday to take their students and faculty safely directly to their destination within certain radius near campus (including metro stations). Despite all these efforts, I heard that it is still not safe to walk alone on the streets at night. The living expenses in Los Angeles are fine if one mostly cook by themselves and buy things from supermarkets.

### 四. 國外實習之具體效益

This opportunity to learn so many things in Prof. Chuong’s lab is so amazing and wonderful. Despite that my main research focus here in Taipei Medical University is to study how insulin-like growth factor signaling controls stem cell properties and stemness in cancer stem cells, the solid training here in the Graduate Institute of Medical Science allowed me to quickly understand the essence of Prof. Chuong’s main interest and how they utilize skin appendages as a model (including feathers, hairs, teeth etc.) to understand how Nature works and study the beauty of stem cells.

### 五. 感想與建議

I highly appreciated that the International Office of Taipei Medical University would award me with this great scholarship to study the things that I love so much in Prof. Chuong’s lab. This really deeply affected my career plan and picked up my passion in science. However, I believed that there are many other people like me who love their interest so much but might lack the connection to get to top world-class university and chase their dreams. It would be fantastic if there are more opportunities and connections for us to find out passion!

### 六. 活動照片 (至少五章)



Photo with Chuong's Lab



Elaine Stevely Hoffman Medical

Research Center (Department of Pathology)



Lab



Keck School of Medicine, USC



Tommy the Trojan