

## Research Visit at the Chiba Group, Nanyang Technological University

Polymer Controlled Synthesis

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I was as an exchange student for 2 months under the support of the ICR-iJURC Short-term Exchange Program in the Chiba group in the School of Physical and Mathematical Sciences of Nanyang Technological University (NTU), which is the one of most famous university in Singapore. The main campus of NTU is called “Yunnan Garden” and is located in the southwest of Singapore, covering an area of 200 hectares. It is very beautiful and is often ranked among the top 10 most beautiful university campuses in the world.

In Chiba group, they focus on discovery and development of general and practical molecular transformation in the field of synthetic organic chemistry, such as olefin functionalization, radical reactions with vinyl azides and others. Since my major is polymer controlled synthesis by using organotellurium-mediated radical polymerization method, their research is relatively unfamiliar to me. The aim of the cooperative research was to design and synthesize novel and useful polymers for future society based on the Prof. Chibas’ and our expertise. It was also a very rare chance for me to broaden my scientific horizons by associating and studying different chemistry and way of thinking. I could obtain certain achievement by the help of Chiba group’s, and further study will be continued in the future.

Their experimental instruments for the research are very complete like our institute, and some instruments belong to the college and are managed by specialized personnel. Those instruments, such as NMR, MS, required application, training, and exam, then the license would be issued. The entire process usually takes nearly three weeks. Therefore, I needed the help for checking the samples before I got the license. The nationality of members in Chiba group is very international and everyone gets along very well. This is also good for me touching the culture of different countries.

At last, I would like to express my deep appreciation to all those involved for giving me this nice and valuable research experience.



Merlion Park (most popular place)



Drink party with lab members (alcohols are very expensive)