

TO: Nakatani Foundation

Nakatani RIES GE 2019 Report

Your Name: Moritz Tremmel

Your University: Karlsruhe Institute of Technology

Host Lab in Japan: Motomu Tanaka Lab Kyoto Center for Integrative Medicine and Physics

Meaning of Nakatani RIES Fellowship: How would you describe the meaning/impact of the Nakatani RIES Fellowship

The Nakatani RIES Fellowship means access to the international science community and I am working on a future co-operation with Prof. Dr. Motomu Tanaka.

Complete the following sentences with the intended audience for these responses being potential applicants to the Nakatani RIES Fellowship.

- My favorite experience in Japan was...
 - The scientific research with a brilliant team in the lab.
- Before I left for Japan, I wish I had...
 - Learned a bit more of the Japanese language.
- While I was in Japan, I wish I had...
 - More time to enjoy the beautiful nature around Kyoto.

Research Internship Overview: Provide a description of your research project and experience during your research internship. How did your project relate to your current or future academic interests? What was the experience of working in an international research setting like? What will you take away from your research experience this summer and what impact do you think this has had or will have on your future academic career or research interests?

My research project was about two different pancreatic cancer cell lines from mice. We tried to distinguish them by phenotype on a supporter membrane. While running the timelaps experiment on the current experiment, I already prepared the next run. We also varied the coating conditions and compared the effects on the two cell lines. This project relates also to my future academic interests since I am planning to co-operate with the Tanak Lab during a possible PhD. Science always must be international and open minded to other scientific disciplines. It was a great experience to work together with physicists and to understand their point of view on biological experiments. The impact of this research experience will be shown in the future. I hope to continue this co-operation.

Lab Environment Overview: Provide an overview of what the personal environment of the lab was like. Describe the personality and working style of your research group? What was it like working with your research mentor/s and the overall group dynamic in the lab?

I am very thankful for the great supervision of Akihisa Yamamoto. He allowed me to perform the experiments mostly on my own and provided great input on all results and problems. Also, many thanks to Satoko Hinatsu. As a research staff she kept the lab alive with her daily care especially on the cell culture. Prof. Dr. Motomu Tanaka was very enthusiastic and gave remarkable input to the further experimental procedure. All in all, I experienced a well working lab and very encouraged scientists who enabled me a great experience.

Daily Life in Japan: Provide an overview of what your daily life was like in Japan. This could include the people you interacted with outside the lab on a day-to-day basis, food, your housing/living experience, your travels around Japan and the challenges you faced and the rewarding experiences you encountered over the course of the summer.

The daily life in Japan was quite comfortable. The apartment was larger than expected. We never experienced an earthquake which was almost promised by the locals. Most of my free time I spend with the other fellows of the internship. We used to play card games together at the evening or went on a trekking tour. We went on a sightseeing tour visiting the imperial garden, the golden pavilion and the bamboo forest. There was a full moon tea ceremony at the evening which was fascinating and very beautiful. The moon was rising over the trees and we were sitting near a small lake listening to a Japanese flute playing in the dark. This day and especially the evening showed the beauty of the Japanese culture.

Experiences with Japanese Culture: Provide an overview of your most meaningful experiences with Japanese culture. This could be program activities or interactions you had with your lab or within your daily life in Japan that you think best exemplify aspects of Japanese culture or values. What did the experience/s teach you about Japan? What did they teach you about yourself?

A great experience was the Japanese food culture. Many small portions of delicious food shared within the group. The lab group was two times out for dinner. There we experienced delicious sashimi and tempura. This was different from Germany where we do not share the food and eat much faster. Using the chopsticks was fine for me and I am currently using them also here at home. I believe that this experience made me enjoy my food much more.