# **Report on SPARK Program Experience in Taiwan**

#### Introduction

In 2024, I had the privilege of attending the SPARK program, a collaborative initiative between SPARK Stanford and SPARK Taiwan. The program aimed to bridge the gap between academia and industry, focusing on translating scientific discoveries into commercial products with real-world impact. Held in Taiwan, this year's program provided a unique opportunity to interact with international experts and local innovators, offering an immersive experience into the world of healthcare entrepreneurship and biotech innovation.

# **Program Structure**

The program in Taiwan was an intensive learning experience, featuring lectures, workshops, and team-based projects. It involved interactions with academic researchers, healthcare professionals, industry experts, and venture capitalists, all contributing valuable insights into the intricacies of the biotech and pharmaceutical industries.

#### 1- Lectures and Seminars:

Experts from SPARK Stanford and SPARK Taiwan delivered lectures on essential topics such as drug development, regulatory pathways, patenting, and clinical trial design. These sessions were instrumental in providing an understanding of how academic research can be transformed into viable products for the market.

Topics of interest included translational research, intellectual property management, regulatory affairs, and venture funding strategies.

## 2- Workshops:

Several hands-on workshops focused on critical skills like pitching innovations to investors, writing business plans, and managing product development timelines. These practical sessions were designed to teach participants how to navigate the complexities of taking a healthcare idea from the lab to market.

Collaboration with international participants fostered cross-cultural learning and helped to exchange ideas on global healthcare challenges and solutions.

# 3- Team Projects:

As part of the program, I worked with a multidisciplinary team on a project aimed at developing a solution to a healthcare problem. This collaborative work was an eye-opener in terms of understanding teamwork dynamics, project management, and how to align scientific innovation with market needs.

## **Key Learnings and Benefits**

#### **Bridging the Gap between Academia and Industry:**

One of the major takeaways was the understanding of how to transition research findings into commercially viable products. This includes the importance of patenting, navigating regulatory challenges, and acquiring venture capital funding.

#### **Networking and International Collaboration:**

The program facilitated the development of a strong network of peers, mentors, and industry leaders. The exposure to different approaches to healthcare innovation, particularly in the context of Taiwan's thriving biotech sector, was incredibly valuable.

# **Enhanced Knowledge of Regulatory Affairs:**

Learning about the regulatory pathways, both in the U.S. and internationally, deepened my understanding of how complex and essential it is to navigate these systems for a product's successful entry into the market.

## **Project Management and Entrepreneurial Skills:**

The emphasis on pitching and developing business plans provided a solid foundation for anyone interested in pursuing entrepreneurial ventures. I now have a better understanding of how to communicate complex scientific concepts to non-experts, particularly investors and potential business partners.

# Impact on Professional Development

As a Ph. D student at University of Tsukuba Faculty of Medicine, the SPARK program has been incredibly beneficial to my career. The knowledge gained about drug development, commercialization, and healthcare innovation will be useful in both my clinical practice and potential future ventures in medical research or biotech startups. Furthermore, the entrepreneurial skills developed during the program have empowered me to consider new approaches to problem-solving in medicine, especially regarding the application of AI and data analytics.

#### Conclusion

Attending the SPARK program in Taiwan was a transformative experience that not only expanded my professional network but also equipped me with essential tools to translate medical and scientific research into marketable innovations. The collaboration between SPARK Stanford and SPARK Taiwan provided a global perspective on healthcare innovation, which will greatly influence my future endeavours in both academic and industry settings.