

特定非営利活動法人 日本免疫学会
2024 年度 後期 Tadimitsu Kishimoto International Travel Award
研究発表報告書

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申請者の 所属・職名	Immunology Department-Kanazawa University-Ph.D student			
出席会議名	12 th International mRNA Health Conference			
発表論文 タイトル	mRNA-based in vivo generation of designer antigen-presenting cells modulates antigen-specific T cell responses			

実施結果:

I would like to express my heartfelt gratitude to the Tadimitsu Kishimoto International Travel Award and the Japan Society of Immunology for their generous support, which made my participation in the 12th International mRNA Health Conference in Boston, USA, from November 12 to 14, 2024, possible.

The conference brought together leading mRNA scientists from around the world to discuss advancements and innovations aimed at improving the quality and efficacy of mRNA-based therapies. It featured a series of focused discussion sessions covering a wide range of topics, from foundational research to enhance the stability and translation efficiency of mRNA to its diverse applications across various health sectors.

During the conference, I had the privilege of presenting our research on mRNA-based in vivo generation of designer antigen-presenting cells (APCs) to modulate antigen-specific T cell responses for cancer therapy. Our study focuses on a novel approach to reprogram mRNA recipient cells into APCs, offering a promising strategy for enhancing the effectiveness of mRNA-based cancer immunotherapy. This presentation was met with engaging discussions and valuable feedback from experts in the field, fostering new ideas and potential collaborations.

In addition to presenting our work, I attended sessions that highlighted the incredible progress in mRNA technology across the globe. Scientists shared groundbreaking advancements in areas such as infectious disease vaccines, tissue regeneration, therapies for rare diseases, and even pain management. These discussions underscored the vast potential of mRNA technology beyond cancer vaccines, emphasizing its transformative impact on healthcare.

The conference also explored future directions for mRNA therapies and strategies to bridge the gap between technological advancements and community accessibility. These conversations emphasized the importance of making mRNA technologies more approachable and inclusive, ensuring their benefits reach diverse populations.

This experience has been profoundly inspiring and has broadened my perspective on the global advancements in mRNA research. I am deeply grateful for the opportunity to participate and contribute, and I look forward to applying the insights gained to our ongoing research endeavors.

Once again, I would like to express my deepest gratitude to you for awarding me this prestigious award so that I can attend this meaningful conference. It will be an important source of inspiration for me in my next research journey.

Last but not least, I would like to thank Professor Kishimoto, the members of the selection committee, and Professor Rikinari Hanayama for his introduction.

注) 本参加記は手書きでなく、Word を使用して作成してください。