


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	Advanced Postdoctoral Researcher. Human Single Cell Immunology Laboratory, Immunology Frontier Research Center, Osaka University			
出席会議名	B Cells: Multifaceted Functions and Dysfunctions (Keystone Conference)			
発表論文タイトル	Atypical and non-classical CD45RBlo memory B cells are the majority of circulating SARS-CoV-2 specific B cells following mRNA vaccination or COVID-19. (Poster 3005)			

実施結果:

With the kind help of the Tadimitsu Kishimoto International Travel Award, I was able to attend and present my work as a poster presentation at the Keystone Conference entitled “B Cells: Multifaceted Functions and Dysfunctions” February 23–26, 2025 held at the Fairmont Monte Carlo, Monte Carlo, Monaco. My poster detailed work in our recent paper that demonstrates a role for atypical and non-classical B cells in the response to COVID-19 infection and mRNA vaccination (Priest, D. G. *et al. Nature Communications* **15**, 6811 (2024)).

This conference brought together many of the leading researchers in the B cell field from across the world into the beautiful setting Monaco. For example, conference organizer Prof. Ali Ellebedy kicked off the conference detailing his group’s groundbreaking work characterizing ongoing germinal center reactions to mRNA vaccines using direct sampling of human lymph nodes. Other notable talks were from Prof. David Glass and Prof. David Tarlington who detailed latest developments in plasma cells, Prof. Virginia Pascual detailing new work on B helper T cell subsets in SLE and of course Prof. Facundo Batista detailing his group’s extremely detailed and deep work on the role of antibody feedback on B cell responses.

During the conference I was able to speak to a large number of leading researchers about their work, ask them questions and present my work to them. It was an invaluable experience to put faces to names of many researchers I knew about, as well as get my name out there amongst leading researchers. I was able to obtain many valuable insights for example from the creators of the Lymphoid Organ Chip (poster 1053) about using microfluidic devices for *in vitro* study of human B cell responses. Furthermore, I received valuable feedback about our paper. Overall, it was an extremely productive conference, and I made connections with researchers which will be helpful to draw upon in the future. I am very thankful to the JSI and Kishimoto-sensei for facilitating my attendance to this conference.