

51st Annual Scientific Meeting of the International Society for Experimental Hematology (ISEH) 2022 in Edinburgh, UK

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The travel grant from the German Stem Cell Society allowed me to attend the annual meeting of the International Society for Experimental Hematology from 1st to 4th September 2022 in Edinburgh, UK.

The ISEH conference covers a wide range of events, from outstanding scientific sessions on basic, translational and clinical hematology to poster sessions and career development seminars. The meeting started with a highly expected talk by Simon Haas (BIH / Charité / MDC / DKFZ / HI-STEM, Germany) about unexpected findings of single-cell sequencing data from human hematopoietic stem cells. He showed that not only typical antigen-presenting cells like dendritic cells but also HSCs present MHC-class-II molecules on their surface and thereby interact with CD4⁺ T-cells. This interplay is supposed to be crucial for the maintenance of a healthy HSC pool throughout life. Following that, in 13 scientific sessions, many highlight talks were given by leading scientists in the field of hematology, e.g. David Kent (University of York, UK), Emmanuelle Passegue (Columbia Stem Cell Initiative, USA), and Nina Cabezas-Wallscheid (Max Planck Institute of Immunobiology and Epigenetics, Germany). Not only did they present their impressive unpublished data but also explained innovative technologies, especially the integration and interpretation of single-cell multi-omic approaches in various contexts, from developmental hematopoiesis to stem cells in age and disease.

To the ISEH it is also relevant to support scientists that are at the beginning of their careers. In addition to the highly interesting talks by Postdoctoral and PhD students, the poster session was an excellent opportunity to meet fellow researchers working in different labs. I had the great opportunity to present my own work as a poster with the title "*Subclonal architecture and differentiation trajectories of leukemia-initiating cells in adult acute lymphoblastic leukemia*". Several experts in the field of leukemia and single-cell barcoding visited the poster and gave me feedback and ideas for future projects or collaborations.

Besides the great scientific contributions, the get-together meetings and especially the social event at the end of the conference, which took place at the national museum of Scotland, were a lot of fun and a great chance to connect with people from all around the world. I am sure this conference provides a huge advantage in my upcoming career and I am already looking forward seeing most people

from this community at the next ISEH meeting. In summary, I want to say thank you to the GSCN for the travel grant and for giving me the opportunity to attend the 51st annual ISEH meeting.

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