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German Stem Cell Network
by online submission

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GSCN Travel Award Application – Meeting report

*52nd Annual Scientific Meeting of the International Society for Experimental Hematology
New York, New York, United States
17-20 August 2023*

The 52nd annual meeting of the International Society of Experimental Hematology (ISEH) was held in New York from the 17th to the 20th of August. This renowned event attracted experts in hematopoietic stem cells, with a remarkable attendance of around 550 participants, marking the highest turnover in its history.

Highlights

Presentation by Daphna Nachmano

One of the most impactful presentations came from Daphna Nachmano from Israel, who shed light on the role of ribosomal heterogeneity in the regulation of stem cell fate. The topic of heterogeneity of subcellular structures in stem and progenitor cells has been emerging as a significant factor in regulating stem cell behaviors (Camargo Ortega and Götz, Trends Cell Biol, 2022). Daphna showed that post-transcriptional modification of tRNAs and ribosomal RNAs impair or promote differentiation and proliferation of blood progenitor cells. Nachmano's findings have undoubtedly opened new doors to understanding the complex nature of stem cell fate determination beyond normal protein coding genes like transcription factors and cell surface receptors.

Talk by Miguel Ganuza

Miguel Ganuza from London presented an intriguing talk on generating a mouse model called Ying Yang, designed to explore cell-cell interactions between specific cell types in niches in vivo. Ganuza demonstrated the application of this model for B and T cells, leaving an intriguing question about its appearance in stem cells. The Ying Yang model could be utilized to address this question in various kinds of stem cells, marking it as a promising new model in the field.

Comparison with the German Stem Cell Network (GSCN) Annual Meeting

The ISEH conference's success also draws interesting parallels with the German Stem Cell Network (GSCN) annual meeting. Despite GSCN being a relatively young and regional society, it has been successful in attracting a similar number of national and international attendees as the ISEH. Moreover, GSCN boasts similar or even more numbers of sponsors, underscoring its positive current relevance for stem cell research, not only in Germany but also internationally.

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Conclusion

The 52nd annual meeting of the ISEH was a landmark event that showcased cutting-edge research and fostered collaboration among global experts in hematopoietic stem cell research. The presentations by Daphna Nachmano and Miguel Ganuza were highlights, providing innovative insights into stem cell fate and interaction. Comparing ISEH's success with that of GSCN's emphasizes the vibrant and growing interest in stem cell research worldwide. The scientific community eagerly anticipates future contributions from both these societies, as they continue to lead and inspire the field of stem cell research.

Yours sincerely,

Germán Camargo Ortega