Keio SFC Academic Society: Grants for RESEARCH PROJECTS Grant for Research presentation at academic conference (A)

Conference Report on Intelligent Systems for Molecular Biology (ISMB)

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<u>Conference Overview:</u> Conference Name: Intelligent Systems for Molecular Biology (ISMB) Date: July 12, 2024 – July 17, 2024 Venue: Palais des Congrés de Montréal, Montréal, QC, Canada Format of Organization: Hybrid (Both in-person and online) Research Title: Unveiling the Genomic Insight into the Exceptional Visual System of a Jumping spider, *Carrhotus xanthogramma* Presentation Format: In-person Poster Presentation

Conference Report:

I have participated in the conference, Intelligent Systems for Molecular Biology (ISMB) that was held in Montreal, Canada and had the precious opportunity to present my research through a poster presentation. This conference is held once every year by the International Society for Computational Biolgy (ISCB) and recognized as one of the largest bioinformatics and computational biology conference in the world that gathers various researchers to discuss and showcase developments and innovations made in various fields. It was held both in-person and online attence bringing 1,900 participants from different countries and background, making it a priceless opportunity that enabled many learning experiences.

This was my first conference and an international one, as well as being the very few undergraduate participants, which made this experience invaluable. Being able to present my research on the genome assembly of the jumping spider, *Carrhotus xanthogramma* and the species identification of an unknown japanese fruitfly, *Torinido-shoujoubae*, through COI DNA barcoding was rewarding. There were many opportunities to communicate with various researchers, professors and PhD students about my work and was able to receive insightful feedbacks which has given me directions for the future of my research. Especially since the conference accomodates experienced scientists from various fields within the larger entity of biology, I was able to broaden my understanding on the research that I undertook and provided me with potential ideas and techniques to apply to my studies.

The conference was not only about presenting my research but also learning and networking. I attended numerous talks and discussions that covered a wide range of topics in bioinformatics such as the use of language models in predictions of proteins or the development of algorithms for genomic analysis. These sessions were highly informative and allowed me to have an exposure to new ideas and the latest advancements and challenges in a wide ranging field. The attendance in ISMB 2024 was a pivotal experience in my academic journey with the exposure to the global scientific community, feedbacks on my research and the learning and networking opportunities have significantly contributed to my growth as a researcher. I am deeply grateful for this granted opportunity and look forward on applying what I have gained through this conference to further advance my research for a fruitful outcome.

Poster:

