

INTRODUCTION

This Introduction summarizes the review and inclusion process for abstracts published in this special supplement of *Briefings in Bioinformatics*, which serves as the official Abstract Book for the 34th International Conference on Genome Informatics (GIW) and the 8th ISCB-Asia Conference (GIW ISCB-Asia 2025).

The conference was held in Hong Kong, China, from 10–13 December 2025, and brought together researchers from across Asia and around the world to share new developments and ideas in bioinformatics and computational biology.

THE ABSTRACT REVIEW AND INCLUSION PROCESS

A total of 271 abstracts were submitted to GIW ISCB-Asia 2025, covering a broad spectrum of topics across bioinformatics and computational biology. Following review and author confirmations, 85 abstracts were collected for inclusions in this supplement. Talks are represented with extended two-page abstracts, while poster presentations appear as 300-word abstracts.

140 posters and 41 talks were accepted for presentation at the conference, resulting in an acceptance rate of 74% for posters and 15% for talks. The submissions were distributed across multiple tracks, including the GIW ISCB-Asia talk and poster sessions, as well as the 4th Asian Student Council Symposium. Each submission was evaluated for quality, clarity, and relevance, with 925 reviews completed by 45 external reviewers and a diverse international Programme Committee.

Accepted abstracts spanned a wide range of topics, including cutting-edge AI applications in biology and medicine, cancer genomics and personalized medicine, single-cell analysis, metagenomics and microbiome analysis, and multi-omic informatics, among others. Authors represented 38 countries or regions, with strong participation from China, Hong Kong, India, Japan, South Korea, the United States, and, reflecting the conference's global reach and growing engagement throughout the Asia-Pacific region.

The high acceptance rate highlights the inclusive and collaborative nature of GIW ISCB-Asia, which aims to showcase the breadth of ongoing bioinformatics research while encouraging community-wide participation and knowledge sharing.

ACKNOWLEDGEMENTS

We extend our sincere thanks to all authors who contributed their work to GIW ISCB-Asia 2025, and to both the School of Computing & Data Science and the School of Biomedical Sciences at The University of Hong Kong for hosting the conference this year. We are deeply grateful to the Area and Programme Committee members, external reviewers, and organizing committees for their time and effort in supporting the review and coordination process. We also thank ISCB and the editorial team at *Briefings in Bioinformatics* for their partnership in producing this supplement.

Together, these contributions have made GIW ISCB-Asia 2025 a dynamic and inspiring venue for collaboration and scientific exchange within the global bioinformatics community.

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