



**Barcelona
Supercomputing
Center**
Centro Nacional de Supercomputación



Accelerating Groundbreaking Multi-omics Research

Barcelona Supercomputing Center (BSC) is Spain's leading national supercomputing resource, open to computer sciences, life sciences, earth sciences, and engineering researchers. Scientific discoveries made in the omics fields have the power to revolutionize our understanding of biological life. With the Lenovo GOAST System leveraging a Lenovo ThinkSystem SR950 server and powered by 2nd gen Intel® Xeon® Scalable processors, researchers were able to optimize multi-omics workflows to reduce the time taken to process 30x whole genome samples 40 times faster —improving time to insight and accelerating vital multi-omics research applied to cancer and other human diseases.1

“The future of genomics research will ultimately be driven by technology. Therefore, it is essential that we continuously optimize our HPC capabilities to help push the boundaries of scientific knowledge.”

**Miguel Vazquez, Ph.D.,
Head of the Genome
Informatics Unit,
Barcelona
Supercomputing Center**

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