



Garvan Institute
of Medical Research



Boosting HPC Performance and Capacity for Biomedical Research

As one of Australia's largest biomedical research institutes, Garvan Institute of Medical Research is at the forefront of next-generation genome analytics. Garvan's high performance computing (HPC) infrastructure runs a range of demanding workloads, including the production workflows of whole human genomes as well as the fast-growing field of single-cell genomics. Garvan was using both external clouds and on-premises infrastructure, but still needed more capacity, performance and scale to keep up with rising workloads. To meet those challenges, Garvan deployed a Dell EMC cluster with compute nodes that align with Intel® Select Solutions for Genomics Analytics. Intel Select Solutions are verified configurations intended to deliver workload optimized performance while simplifying deployment of data center infrastructure.

"We're only at the beginning of what we're achieving with this platform and where we're going with it, but fundamentally, it is leading to a lot of changes that are enabling Garvan to evolve into a data-informed medical research institute. The infrastructure is fundamental to the changing of our business and how we're working, and the impact is transformative."

**Dr. Warren Kaplan, Head of
Data Sciences Platform,
Garvan**

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