

**36%** increase  
in single cell RNA-seq  
performance.<sup>1</sup>

“Every second we gain in performing these complex analyses translates into added value for our overall research. We appreciate the support of Intel, MemVerge, and phoenixNAP on all our projects, as their technologies make an essential difference in how we work.”

**Glen Otero, Ph.D.**  
VP of Scientific  
Computing, TGen

# Accelerating Genomics Data Processing with Persistent Memory and Big Memory Software

The Translational Genomics Research Institute (TGen), an affiliate of City of Hope, is a nonprofit organization focused on developing earlier diagnostics and smarter treatments. Working on projects that rely on massive amounts of unstructured data, TGen needs advanced computational power to derive value from such data. Besides the sheer number of genes and cells that needed to be analyzed, the other major challenge for TGen was that the number of cells in an experiment kept constantly growing. TGen is using next generation computation technology developed by MemVerge on phoenixNAP's Hardware-as-a-Service platform to virtualize Intel® Optane™ Persistent Memory.

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[2nd Generation Intel® Xeon® Scalable Processors](#)  
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