

Adapt sequencing to real-time sample availability on the NovaSeq™ X Plus System

Increase system productivity by starting sequencing when samples are ready with staggered start



Figure 1: Staggered start on the NovaSeq X Plus supports continuous, near independent runs across all flow cell types and applications.

Batching flexibility regardless of sample volume

With staggered start, labs like Novogene can launch sequencing runs as soon as samples are ready—without waiting to batch libraries for a dual-sided run. This keeps turnaround times predictable and ensures consistent delivery even when daily sample volumes fluctuate.

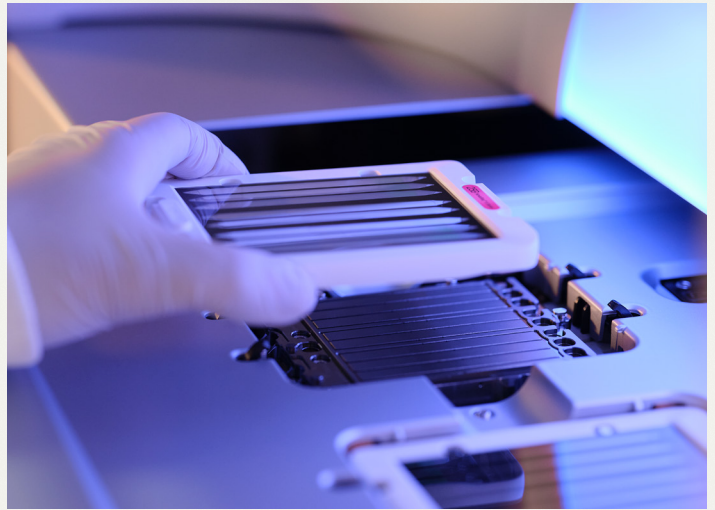
"Staggered start has been a huge benefit to our lab. Before, we were constantly running mental flow charts to decide whether to load a flow cell now or wait for the next one to fill up. A single-sided run would lock out the instrument for two days, but waiting too long for a dual-sided run meant potentially delaying projects. **With staggered start, we don't have to make that tradeoff anymore—we can load as samples are ready.**"



Zong Ye Wu, PhD
US Lab Director, Novogene

Increased productivity — no more lockouts

Labs no longer have to leave one side of the NovaSeq X Plus System idle or adjust sequencing schedules to accommodate urgent samples. With staggered start, each flow cell can be started independently, maximizing instrument uptime and keeping production runs on track.



"Rapid whole-genome projects are often unexpected and require immediate sequencing action, which can disrupt our normal NovaSeq X Plus sequencing schedule. We generally alternate use between instruments to keep one instrument open in the event of a rapid whole genome case, even if that means delaying the start of a standard production run by a day or two.

However, **staggered start removes that constraint, allowing us the flexibility to start each flow cell independently** and keep throughput and turnaround where we need them."



Shrikant Mane, PhD
Executive Director, Yale Center
for Genome Analysis



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