

HIGH-YIELD AAV PRODUCTION AND IMPROVED MANUFACTURABILITY ACROSS MULTIPLE SEROTYPES VIA A NOVEL CELL ENGINEERING PLATFORM

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CHO+Plus

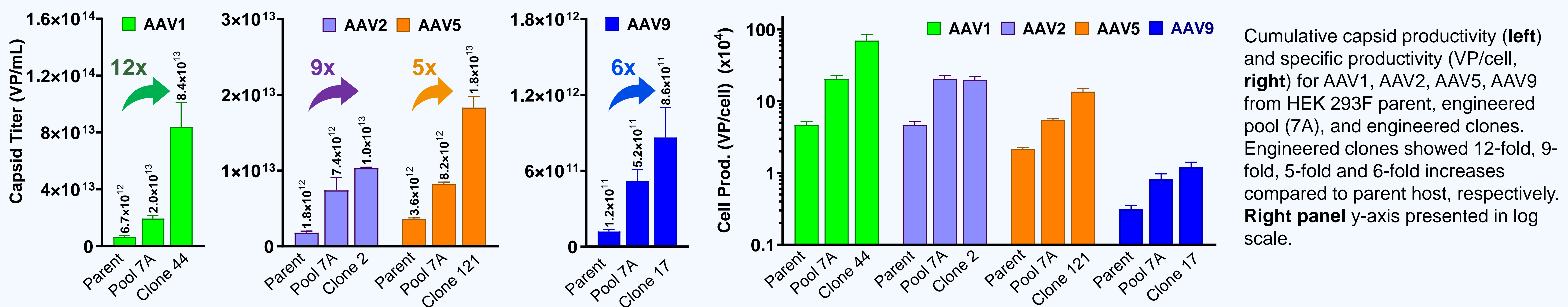
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TECHNOLOGY PLATFORM

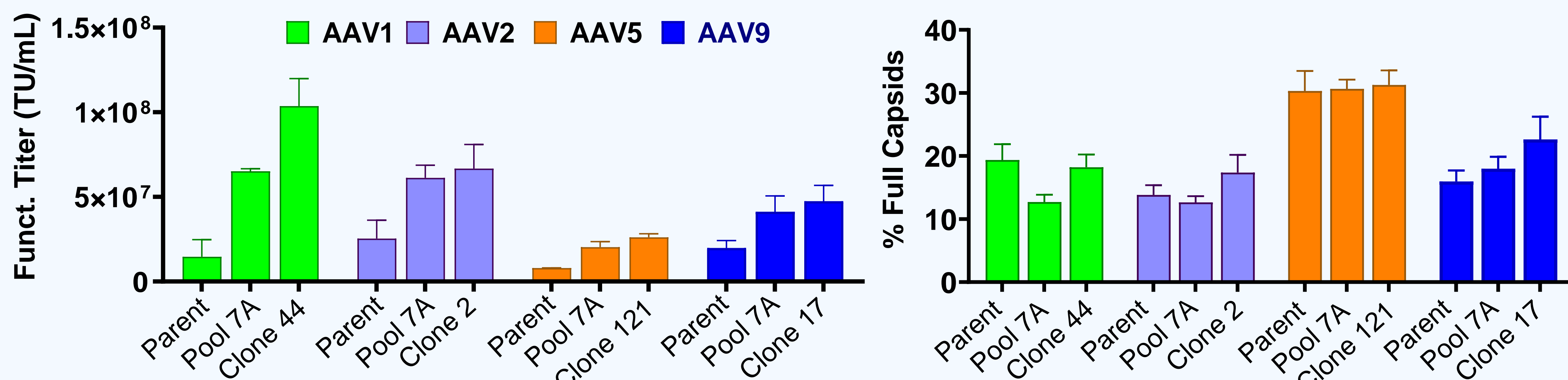


IMPROVEMENT OF AAV PRODUCTION FOR MULTIPLE SEROTYPES

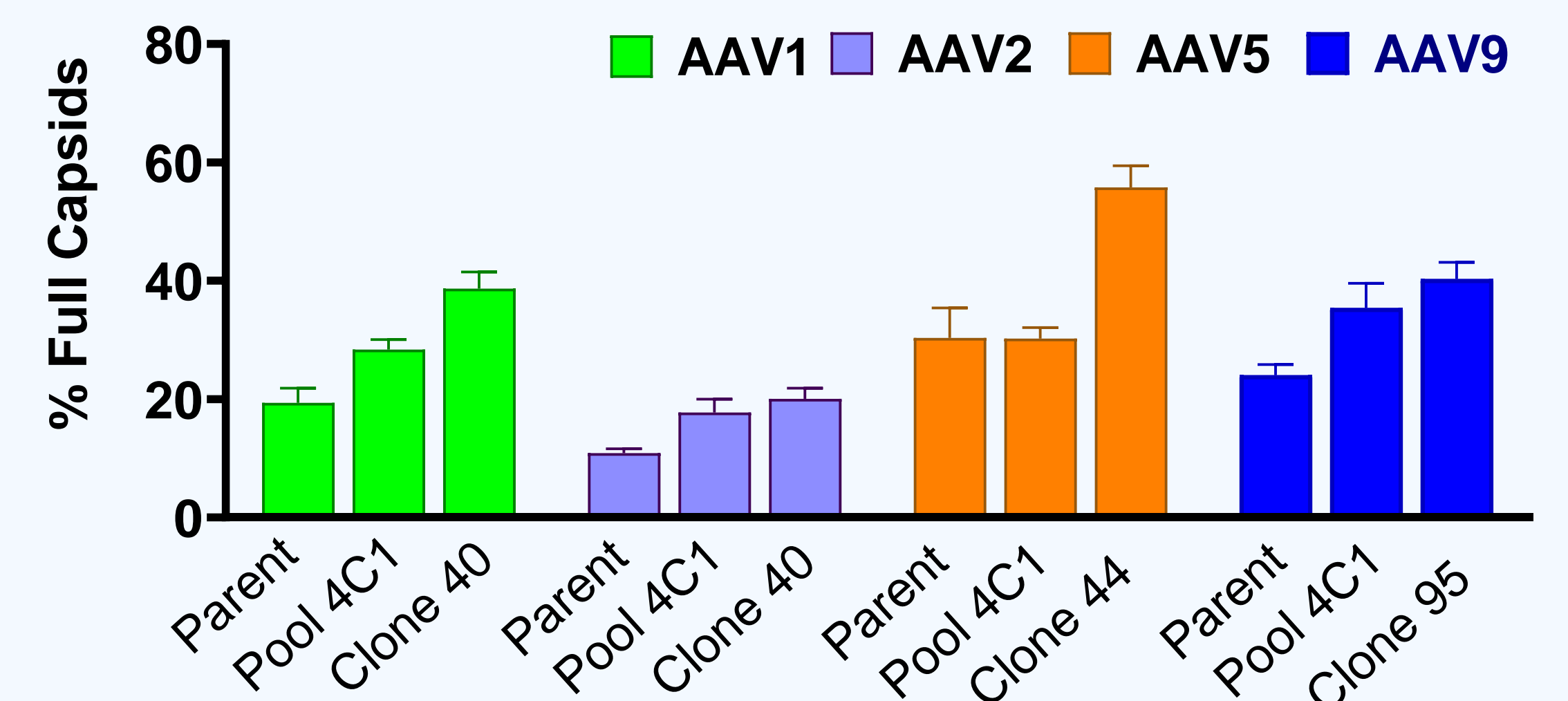
HIGHER PRODUCTIVITY



HIGHER FUNCTIONAL TITER AND COMPARABLE % FULL

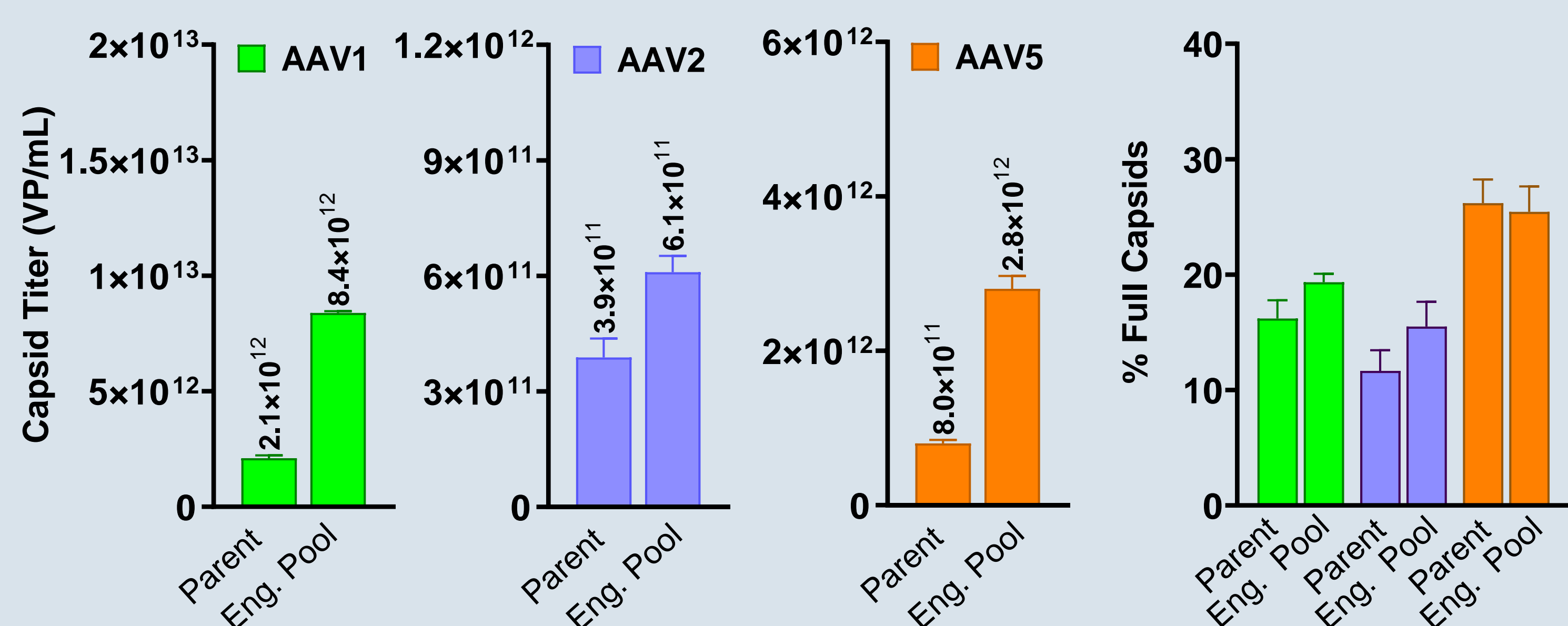


HIGHER % FULL CAPSIDS

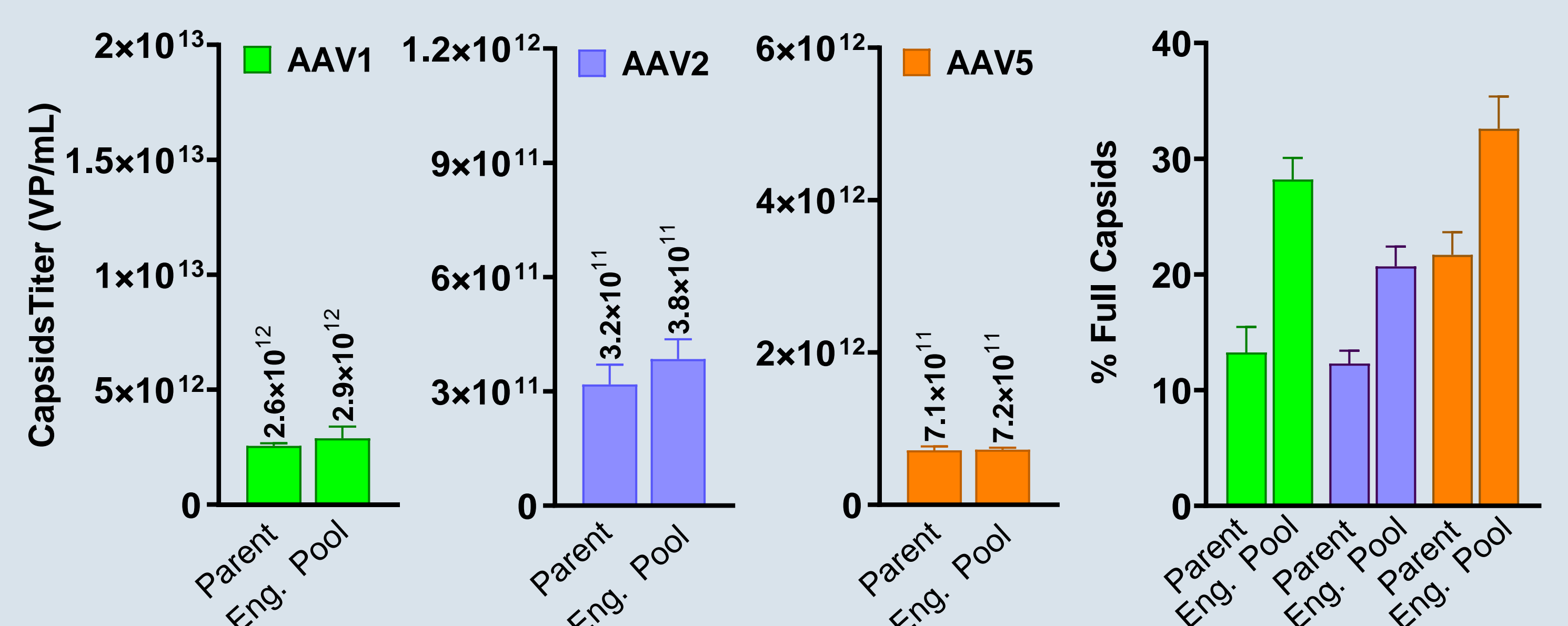


HIGHER PRODUCTIVITY AND % FULL IN STABLE PRODUCER CELL LINES (PCLs)

HIGH PRODUCTIVITY



HIGH % FULL CAPSIDS



CONCLUSIONS

We have demonstrated a **disruptive cell-engineering platform** to significantly improve HEK cell culture manufacturing capabilities:

- + HEK-293F cells can be engineered for up to 12-fold higher AAV productivity for multiple serotypes
- + Capsid percent-full can be increased by 2-fold, with further improvement possible
- + We have developed a new system for generating high-yield PCLs in which engineered PCLs can be further engineered for higher productivity, or for higher % full capsids

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