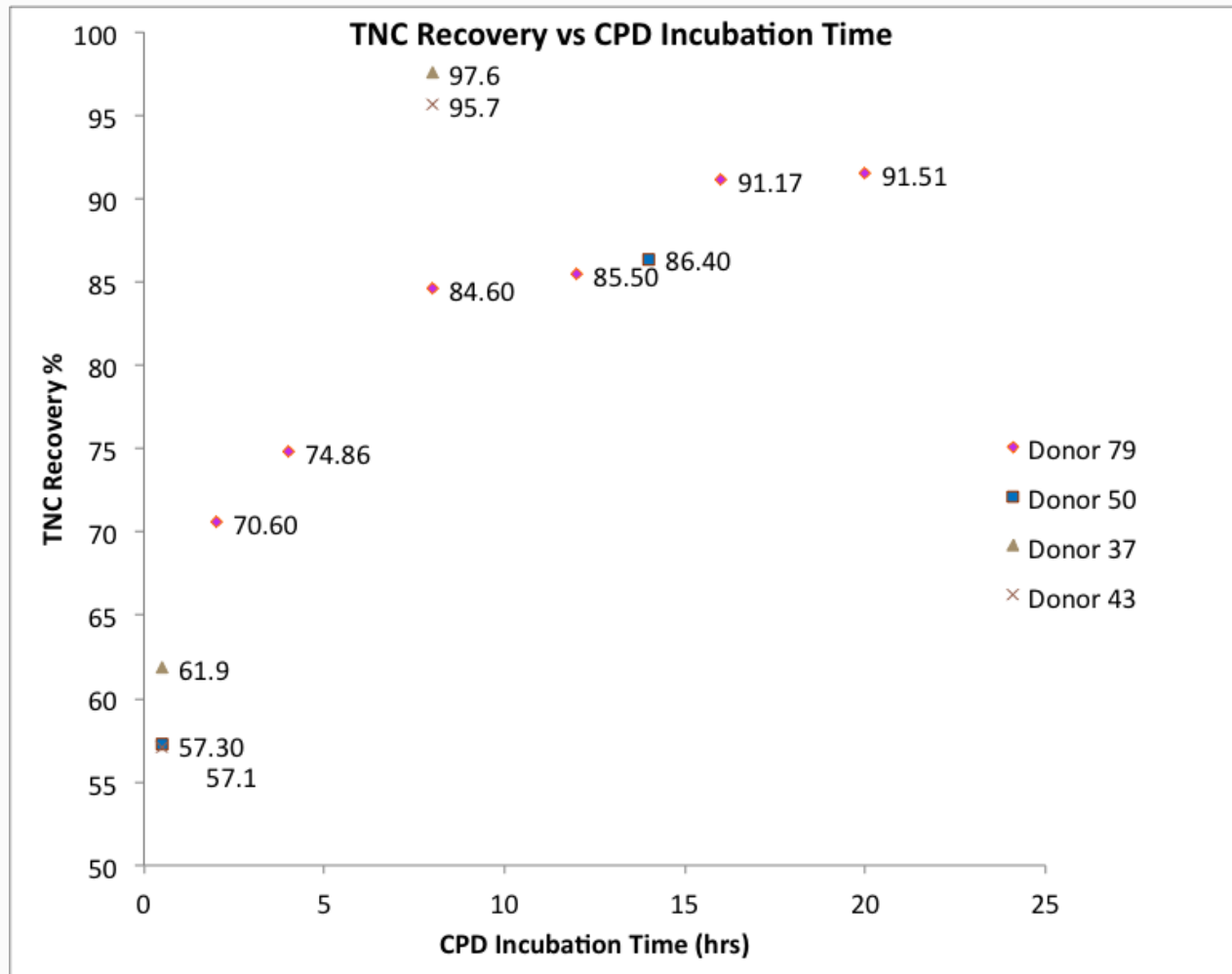


Low Volume Optimization



- **Optimization of recoveries at low and high volume ranges**
- **Current demand: Asia for low-volume AXP processing**
 - 50-70mL
 - Expected TNC recovery increase from 78% to 82%
 - Starting CPD 28mL (36-28% range)

TNC Recovery % vs CPD Incubation Time



CPD inhibits rouleaux formation and causes cell swelling, thereby negatively affecting sedimentation. Prolonging incubation time allows for the cells to equilibrate to achieve higher TNC recoveries.

Conclusions

- **CPD has negative effects on TNC recoveries**
 - **Solutions:**
 - **Decreasing the starting volume of CPD**
 - **Increasing incubation time >12hr blood age**
- **There are inherent differences between biological samples in their sedimentation**
 - **Some samples are not affected by CPD, some have different inherent sedimentation rates**