Accelerating Science: Automating Real-time Workflows with the IntelliQube®

Erin Steer, PhD
Application Scientist

Science
for a safer world
Our story began with a paradigm shift

200 microplates vs. 200 arrays
Array Tape® optimized for use with IntelliQube®

- Opaque white continuous polymer strip
- Standard 384-well and interlaced 768-well pattern
- Optically clear, pressure-sensitive cover seal
Fully-automated PCR platforms

- **Real-Time & End-Point PCR**
  - Up to 4.6K data points in 8 hrs
  - 500K - 1M data points/year

- **Real-Time & End-Point PCR**
  - Up to 24K data points in 8 hrs
  - 1M - 6M data points/year

- **End-Point PCR**
  - Up to 160K data points in 8 hrs
  - 3M - 40M data points/year
IntelliQube®
Fully automated PCR setup, amplification and analysis system
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Performance capabilities

• Linear dynamic range: 40 to $4 \times 10^7$ copies/reaction

• Resolves 1.2 fold differences with >97% sensitivity and specificity

• Standard deviation of 0.087 cycles in 768 replicate wells
IntelliQube®
Performance capabilities

Human Genomic DNA

Limit of detection:
3 copies per reaction
Summary

- The IntelliQube® provides flexibility to run only the sample/assay combinations required.

- One IntelliQube® enables generation of ~1M yearly data points (8-hour day, 250-day work year).

- No expensive consumables allows for a consistently low cost per data.