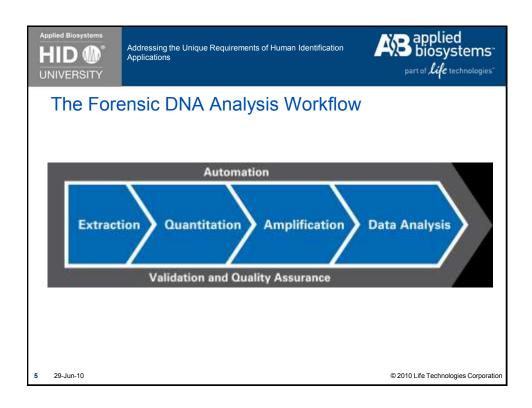
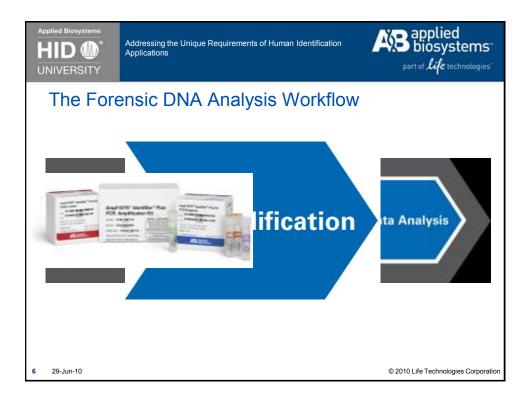
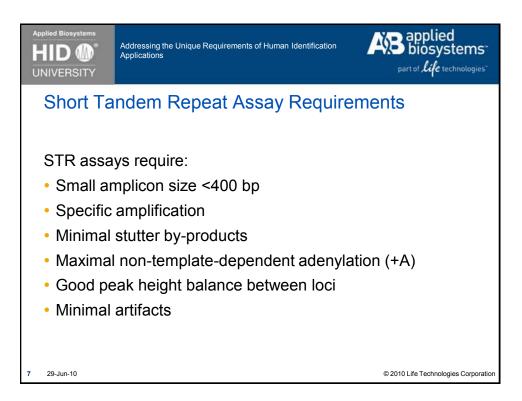


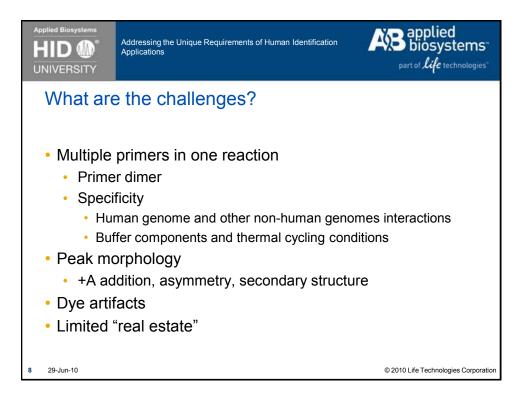


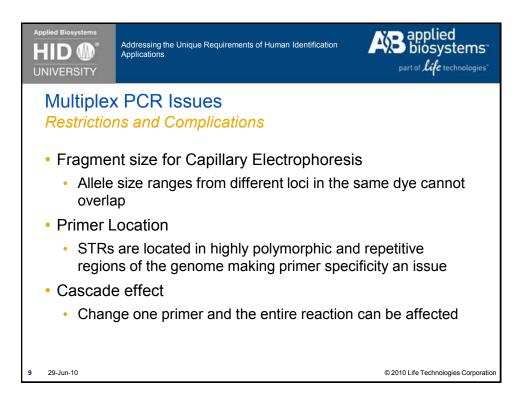
AB applied biosystems Addressing the Unique Requirements of Human Identification HID Applications part of life technologies UNIVERSITY Expanding along the workflow Sample DNA Quantitation Amplification Detection Data Analysis xtracti \*\*\*\*\*\*\*\*\* PrepFiler<sup>™</sup> Forensic Quantifiler<sup>®</sup> 310 System GeneMapper® ID DNA Extraction kit v3.2.1 Software Human 3130 System Quantifiler® Y 9700 Genemapper® 3.3 Thermal 3130xl System software (Chinese) 7500 RT-PCR Cycler System HID RT-PCR Software Ease of use Ease of interpretation Higher throughput Streamlined workflov Quantifiler® Duo Next generation STR kits GeneMapper® ID-X Automate 3500 Genetic Express Difficult samples expert system Analyser software 29-Jun-10 © 2010 Life Technologies Corporation

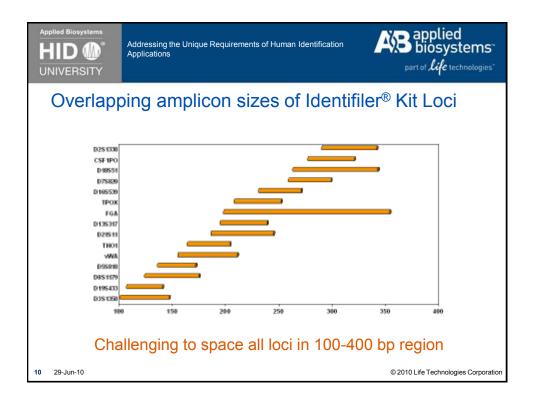


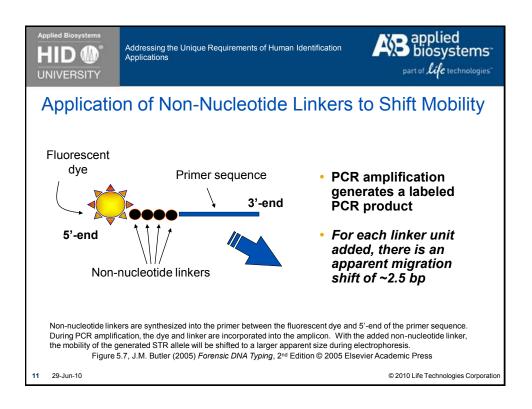


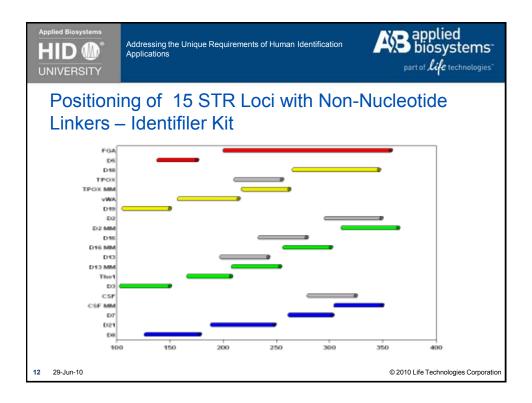


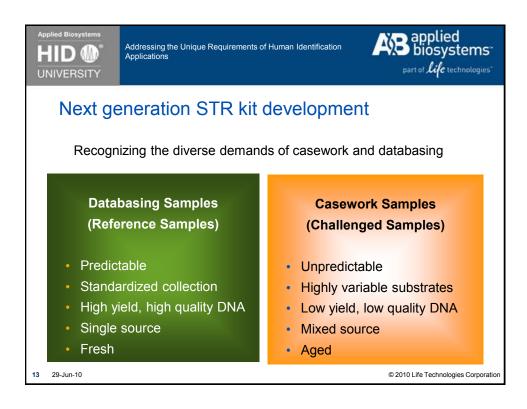


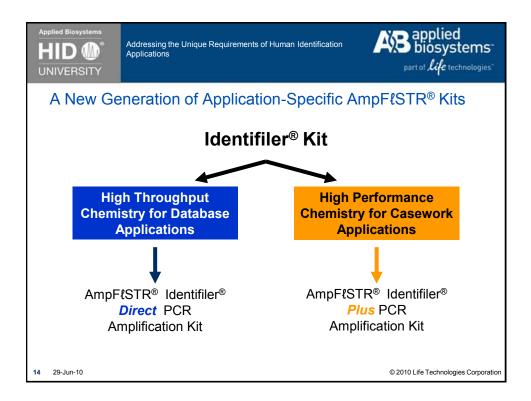












Applied Biosystems

Addressing the Unique Requirements of Human Identification Applications



## Key Requirements\* of a Forensic Casework Analysis Kit

Ranking	Requirement
	Amplify all loci in the presence of PCR inhibitors
2	Obtain NDIS uploadable profiles from degraded samples
3	Detect low levels of male DNA in mixed Male-Female samples
4	Obtain maximum number of alleles for the minor contributor in a mixture
5	Amplify enough highly discriminatory loci to minimize shared alleles in mixtures
6	Obtain NDIS uploadable profile from less than 100 pg
7	Obtain profiles with minimal stutter or artifact peaks

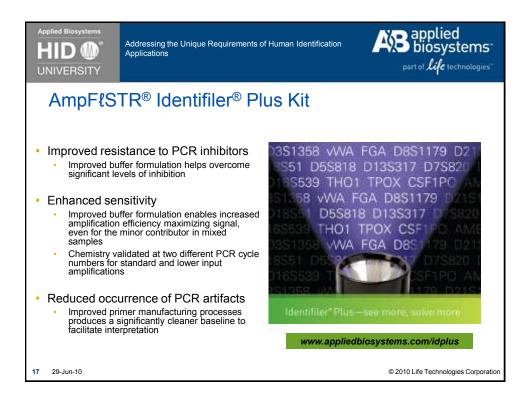
## Casework samples often suffer from multiple challenges, all of which a chemistry designed specifically for casework analysis must be able to address

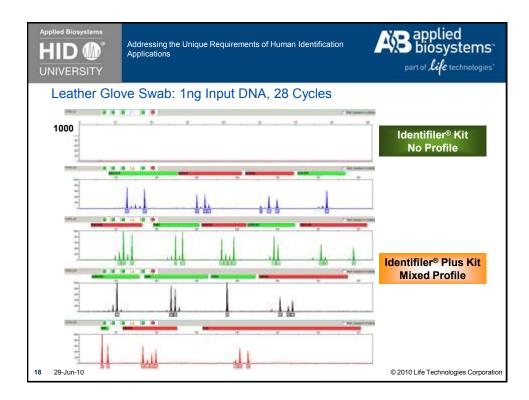
\*Feedback from 125 Customer Interviews in North America

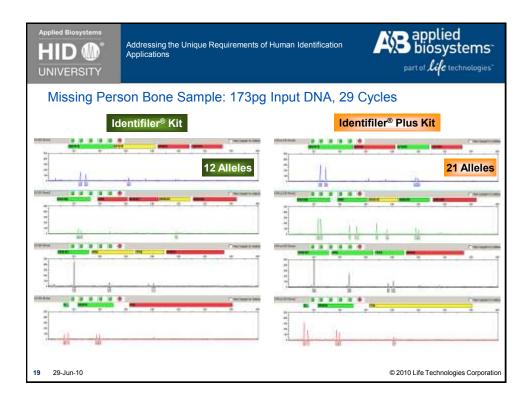
15 29-Jun-10

© 2010 Life Technologies Corporation

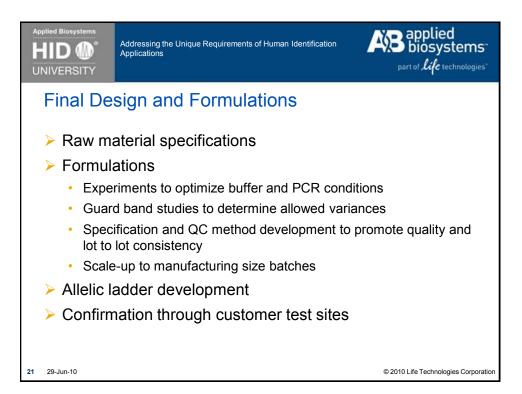




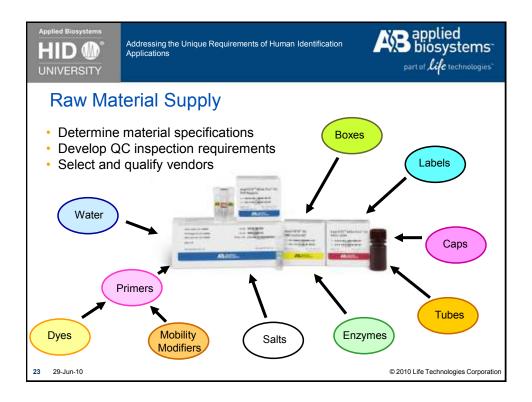


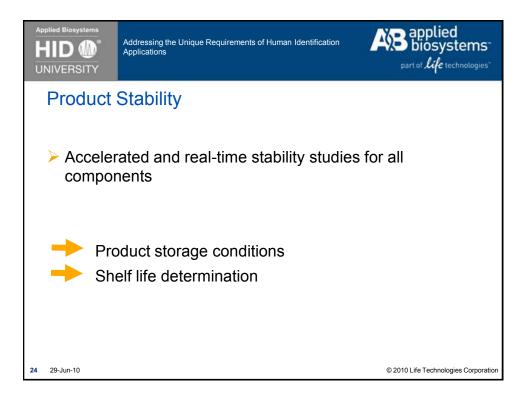


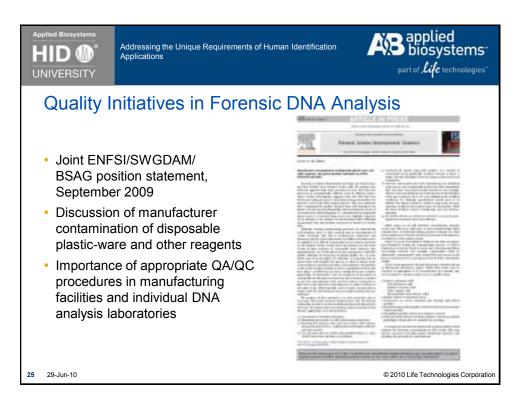










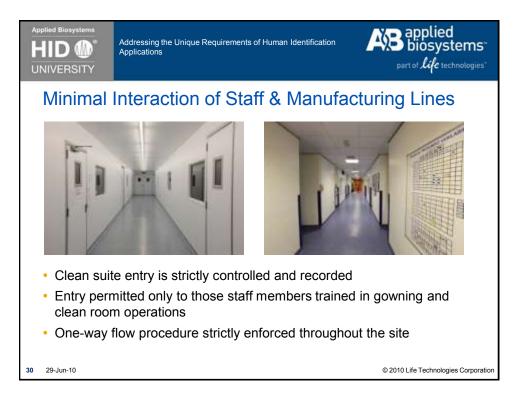




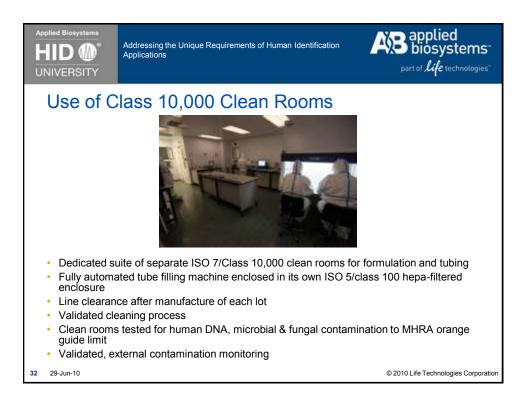












Addressing the Unique Requirements of Human Identification Applications



## Allelic Ladder Manufacturing

- Production site separated by several miles from general kit production facility
- Advanced Technology Air Filtration system
- Cross contamination avoided by work areas maintained under negative pressure.
- Production & packaging separated to avoid contamination
- Documented and validated cleaning and maintenance procedures

29-Jun-10

33



Instrumentation Custom designed and built solely for allelic ladder production. This is the only machine of it's kind in the world designed to tube fill and packaging allelic ladder without contamination

© 2010 Life Technologies Corporation

