



National University of Science and Technology

Applied Genetic Testing Centre

(A G T C)

## Your One Stop DNA Testing Centre

### Goal

To be the leading DNA analysis laboratory in Zimbabwe, harnessing state-of-the-art infrastructure and advanced techniques to deliver high quality services in human, livestock, crop variety and pathogen identification.

Sample Collection

Sample Preparation

DNA Amplification

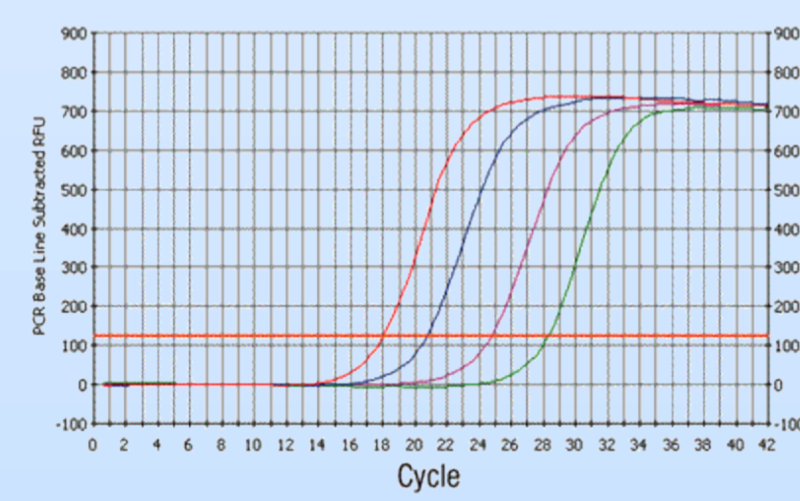
Detection & Analysis



Blood Stain



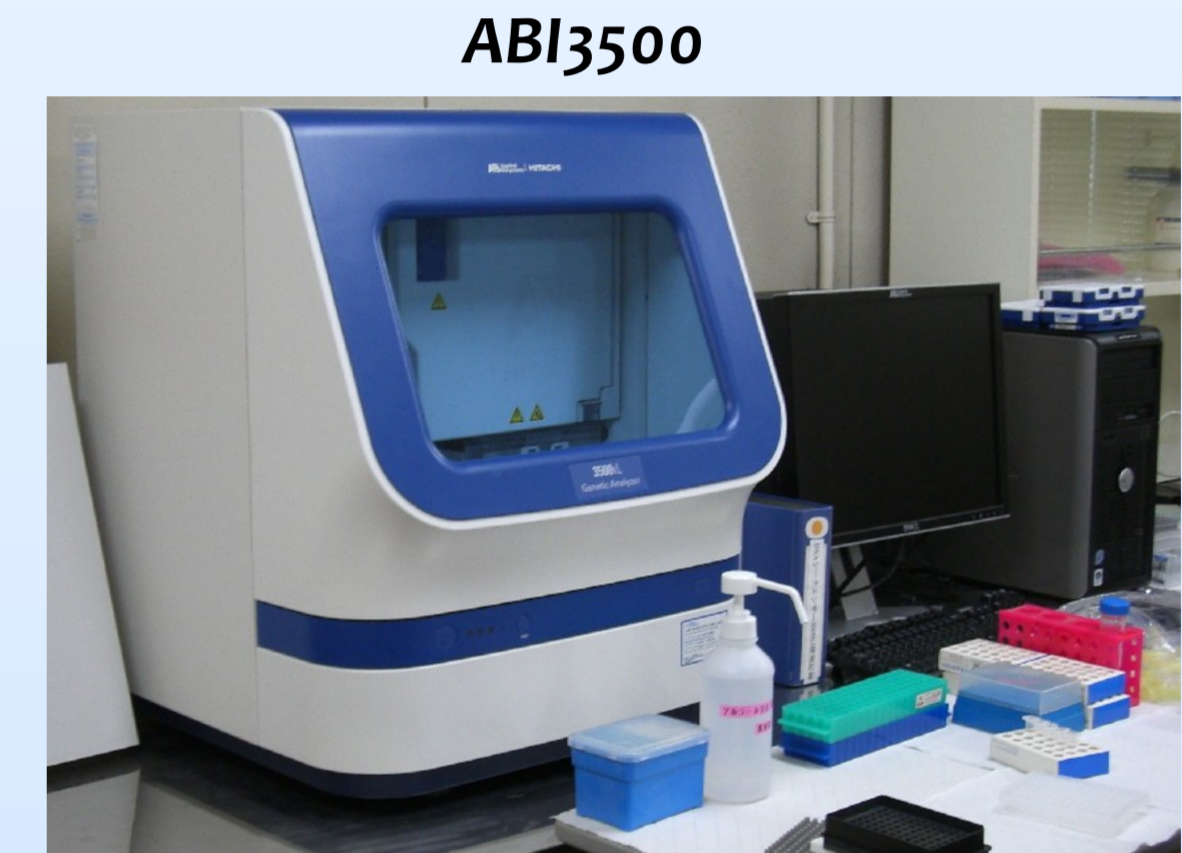
Real Time Quantitative PCR



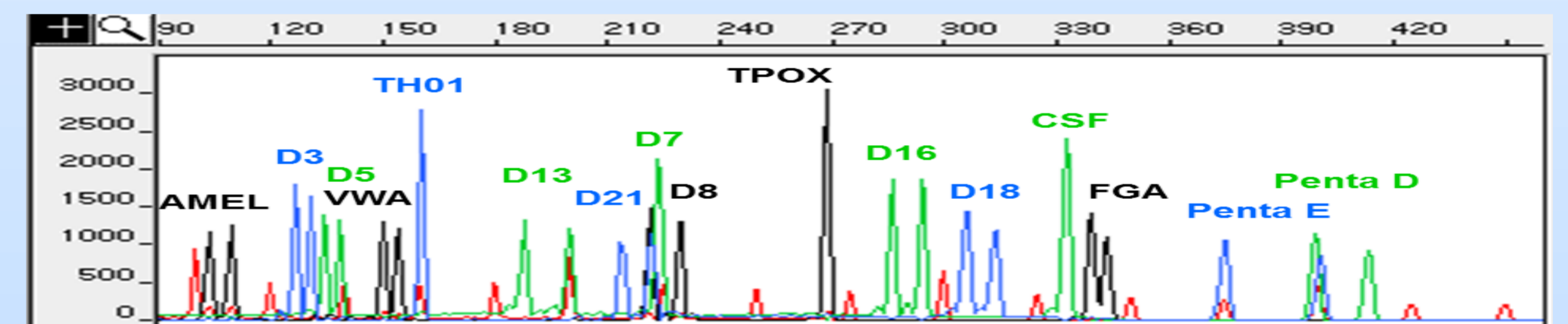
Red=10,000 cells  
Blue=1,000 cells  
Pink=100 cells  
Green=10 cells



Multiplex PCR



Capillary Electrophoresis



PCR Amplification with Fluorescent STR Kits and Separation with Capillary Electrophoresis

## DNA Testing Services Offered at the AGTC

### Human Identification

- Individual DNA Profiling
- Paternity Testing
  - Motherless paternity test,
  - Standard Paternity test,
  - Court Admissible Paternity test.
- Relationship DNA Testing
  - Sibling analysis,
  - Grandparent DNA testing,
  - Avuncular (Aunt/Uncle) testing,
  - Y chromosome test (paternal lineage analysis)

### Medical Diagnostics

HIV Viral Load Tests

### Contact Details

Chemistry Building NUST  
 Email: [agtc@nust.ac.zw](mailto:agtc@nust.ac.zw)  
 Phone: +263 9 282 842 Ext. 2132  
 Mobile: +263 773 724 720  
 +263 773 724 708

### Forensic Analysis

- Sexual Assault Cases
- Murder Cases
- Identification of individuals involved in catastrophic accidents
- Identification of human Remains in missing persons cases