AMP 2013
ST49

Reproducibility and Accuracy of Cross Platform RTQ-PCR Testing for the Detection of mRNA from Surface Squamous Cells Overlying Pigmented Skin Lesions

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DermTech

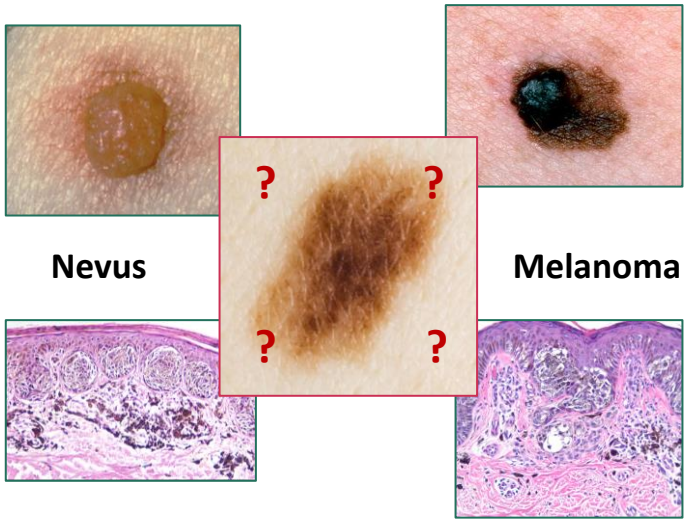
- **Molecular diagnostics in dermatology can reduce unnecessary biopsies for suspicious lesions**
- **RTQ-PCR is reliable for multi-gene expression signature**
- **Multi-gene expression assay was migrated and validated across RTQ-PCR platforms**

1

Non-invasive adhesive patch for sampling pigmented skin lesions

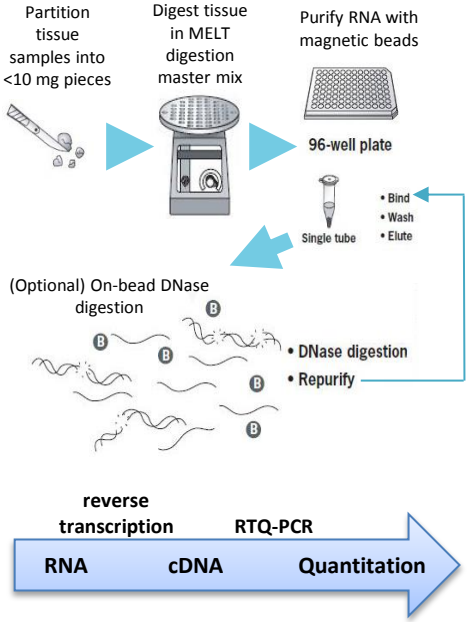
A clinical pathologic problem solved by a molecular signature assay

Clinical and pathologic identification of pigmented skin lesions depends on visual pattern recognition, with less than acceptable sensitivity and specificity for melanocytic neoplasms.

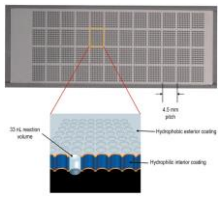


2

Specimen preparation



3



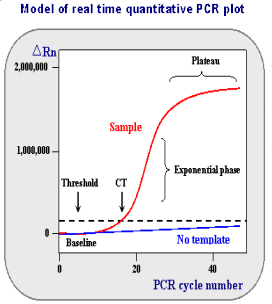
OpenArray Format
2,688 reactions per array

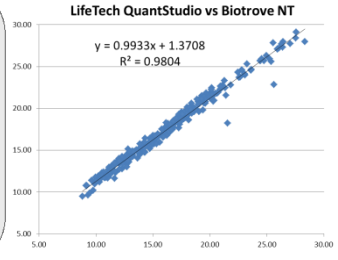
Old platform
Biotrove NT

New platform
QuantStudio 12K Flex (LifeTechnologies)

4

The measurements are reproducible





5

We developed an accurate and reproducible expression signature