



# Integration of reference materials into the production process of Aß1-42 assays.

# Britta Brix (EUROIMMUN) Hugo Vanderstichele (ADx NeuroSciences)

Global biomarker Standardization Meeting AAIC 2017, London, \*\* July 2017





### The goals

- From a 'Relative' quantitative assay to a 'Definitive' quantitative assay.
- Generation of Universal cut-off values







# **IRM** (International Reference Material) Examples of other biomarker proteins



Availability of IRM does not always result in identical values using different assays. **Better approach for integration needed?** 





## From **IRM** to **re-calibrated** assays: the approach for Aß(1-42)

#### Fact: approved reference method



To be **control**led Temperature, freeze/thaw

Assay
Technology
Antibodies
Calibrator
Buffer
Test protocol
Performance (analytical)

## The process Direct Indirect



alzheimer's association









Sample preparation

Value assignement





**C**ertified **R**eference **M**aterials

**CSF** Sample (H, M, L) preparation

> Value assignement





#### Certified Reference Materials









Value assignement



 $\bullet \bullet \bullet \bullet$ 

#### Certified Reference Materials



assignement



 $\bullet \bullet \bullet \bullet$ 





 $\bullet \bullet \bullet \bullet$ 







## From **IRM** to **re-calibrated** assays: the approach for Aß(1-42)

#### Fact: approved reference method









AA QC Instand Other ?

