

The logo for the European Bioanalysis Forum (EBF) is located in the top right corner of the slide. It consists of the letters 'EBF' in a white, sans-serif font. Below the letters is a white, curved line that starts under the 'E' and ends under the 'F', resembling a stylized arc or a partial circle. To the right of this arc, the words 'European Bioanalysis Forum' are written in a smaller, white, sans-serif font, stacked vertically.

EBF

European  
Bioanalysis  
Forum

# How To Implement The EMA Guideline On Bioanalytical Method Validation

*Presenter: Peter van Amsterdam on behalf of EBF*

EBF 4<sup>th</sup> Open Symposium – Less is More  
16-18 Dec 2011  
Barcelona

# Dates and Places

- **18-Dec-2008**  
**Concept paper/recommendations on the need for a (CHMP) guideline on the validation of bioanalytical methods**  
[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/Scientific\\_guideline/2009/09/WC500002964.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/Scientific_guideline/2009/09/WC500002964.pdf)
- **19-Nov-2009**  
**Draft. Guideline on the validation of bioanalytical methods**  
[http://www.emea.europa.eu/docs/en\\_GB/document\\_library/Scientific\\_guideline/2009/12/WC500018062.pdf](http://www.emea.europa.eu/docs/en_GB/document_library/Scientific_guideline/2009/12/WC500018062.pdf)
- **21-Jul-2011**  
**Guideline on the validation of bioanalytical methods**  
[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/Scientific\\_guideline/2011/08/WC500109686.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/Scientific_guideline/2011/08/WC500109686.pdf)
- **21-Jul-2011**  
**Overview of comments received on 'Guideline on the validation of bioanalytical methods'**  
[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/Other/2011/08/WC500109687.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/Other/2011/08/WC500109687.pdf)
- **21-Feb-2012**  
**'Guideline on the validation of bioanalytical methods' coming into effect**  
<http://www.ourplace.com/>

# Points of Attention

- Clinical: validation and sample analysis according to GCP
- Non-clinical: GLP validation for GLP studies
- Full validation for each species (pg 4) ↔ Partial validation species change (pg 10)
- Runs ≠ batches
- Cross-validation: different methods. How different can different be before it is different?
- Report overall statistics of QCs
- Overall accuracy & precision < 15%  
... and for LBA?
- Statistics: proper calculation of between-run accuracy & between-run precision
- Matrix effect: 6 individual samples, two concentrations, haemolysed and hyperlipidaemic

# Points of Attention

- QC levels: Lo 3x LLOQ, Me at 50% of cal curve range, Hi at 75%
- Recovery: not requested by EMA (but in FDA 2001)
- Deviating IS response: sample reanalysis
- ISR: 10% for first 1000, 5% of the rest
- IS: CoA not mandatory
- Reporting: 20% Chromatograms in BE studies, representative in other cases.
- Selectivity: co-medication normally used in the subject population
- Stability during sampling/before storage (blood)
- Multi analytes: stability in matrix containing all analytes
- LTS results must be available before issuing the study report

# Acknowledgement

- Contributors:  
Abbott, Actelion, Astellas, AstraZeneca,  
Boehringer-Ingelheim, Charles River, Ferrer,  
Grünenthal, Harlan, Hoffmann-La Roche,  
Lundbeck, Orion Pharma, Sanofi-Aventis, Swiss  
BioAnalytics, TNO-Triskelion
- EMA  
for stimulating us to continuously improve our work