

ESBB satellite meeting, London, 29 September 2015



SAMPLE QUALITY

"Pre-analytical errors still account for nearly 60% - 70% of all problems occurring in laboratory diagnostics, most of them attributable to mishandling procedures during collection, handling, preparing or storing the specimens".

Lippi G. et al. Pre-analytical quality improvement: from dream to reality. Clin Chem Lab Med. 2011 Jul; 49(7):1113-26.



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takes it serious

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BBMRI-ERIC a distributed network



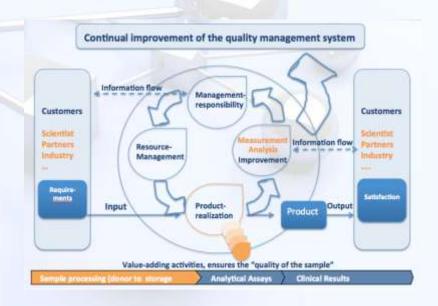
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BBMRI-ERIC QMS

Quality of a Biobank

Quality Management System in general



Quality of the sample (Product realization)

Appropriate pre-examination processes for sample processing



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BBMRI-ERIC QMS Requirements

Partner Charter

- **OECD** best practice guidelines for Global Biological Resource Centres Networks.
- **SOPs**
- WHO/IARC guidelines for biological resource centres for cancer research

Relevant available international Standards

- ISO 9001:2008 Quality management systems Requirements
- ISO 15189:2012 Medical laboratories Requirements for quality and competence
- ISO 17025:2005 General requirements for the competence of testing and calibration laboratories
- ISO 19011:2011 Guidelines for auditing management systems



BBMRI-ERIC Quality of the sample

for Molecular in vitro diagnostic examinations:

- snap frozen tissue Part 1: Isolated RNA
- snap frozen tissue Part 2: Isolated proteins
- FFPE tissue Part 1: Isolated RNA
- FFPE tissue Part 2: Isolated proteins
- FFPE tissue Part 3: Isolated DNA
- venous whole blood Part 1: Isolated cellular RNA

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Soon available:

- venous whole blood Part 2: Isolated genomic DNA
- venous whole blood Part 2: Isolated circulating cell free DNA from plasma
- metabolomics in urine, serum and plasma
- And other examinations relevant for BBMRI-ERIC



BBMRI-ERIC Observer Liaison ISO

International Standard for Biobanks and Bioresources

ISO/TC 276 "Biotechnology" timeline 2017/2018

International Standard for Pre-examination processes

ISO/TC 212 " Clinical laboratory testing and in vitro diagnostic

test systems" timeline 2017/2018



BBMRI-ERIC International Standard developments

WG 01 "Terminology"

Identification of currently used national and international standards, guidelines and other relevant documents, as well as terms and definitions, related to ISO/TC 276 Biotechnology.

WG 02 "Biobanks and Bioresources"

Elaborate a package of International Standards in the Biobanks field including human, animal, plant and microorganism resources for Research & Development aspects

WG 03 "Analytical Methods"

Develop standards for accurate, reproducible and robust measurement and analysis in support of biotechnologies. E.g. Cell Counting

WG 04 "Bioprocessing"

Component Material control, Bioreactor processes



WG 05 "Data processing and Integration"

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BBMRI-ERIC Q-Strategy

- Biobank as organization
- Quality of the Sample
- ISO Standards
- CEN Standards
- Guidelines/Best Practices

- Online tool
- Internal use / statistics
- Basis for Measurement/Analysis/Improvements
- Basis for Services
- Basis for Audits

Organizational QM criteria Modules

Seir-assessmer Modules

- Self assessment
- Audit Programs
- Optional BBMRI-ERIC crossboarder Performance and Audit Assessment Programs

QM & QC Requirements

- Validation of processes
- Documentation/Records
- SOPs
- Referral Services
- QC checks
- CAPA processes
- Performance Assessments

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bbmri-eric.eu/at-a-glance andrea.wutte@bbmri-eric.eu

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