
For better quality in biobanks – Audit programmes support improvement measures

BIOBANK OPEN FORUM JAPAN
29 AUGUST 2023

Andrea Wutte

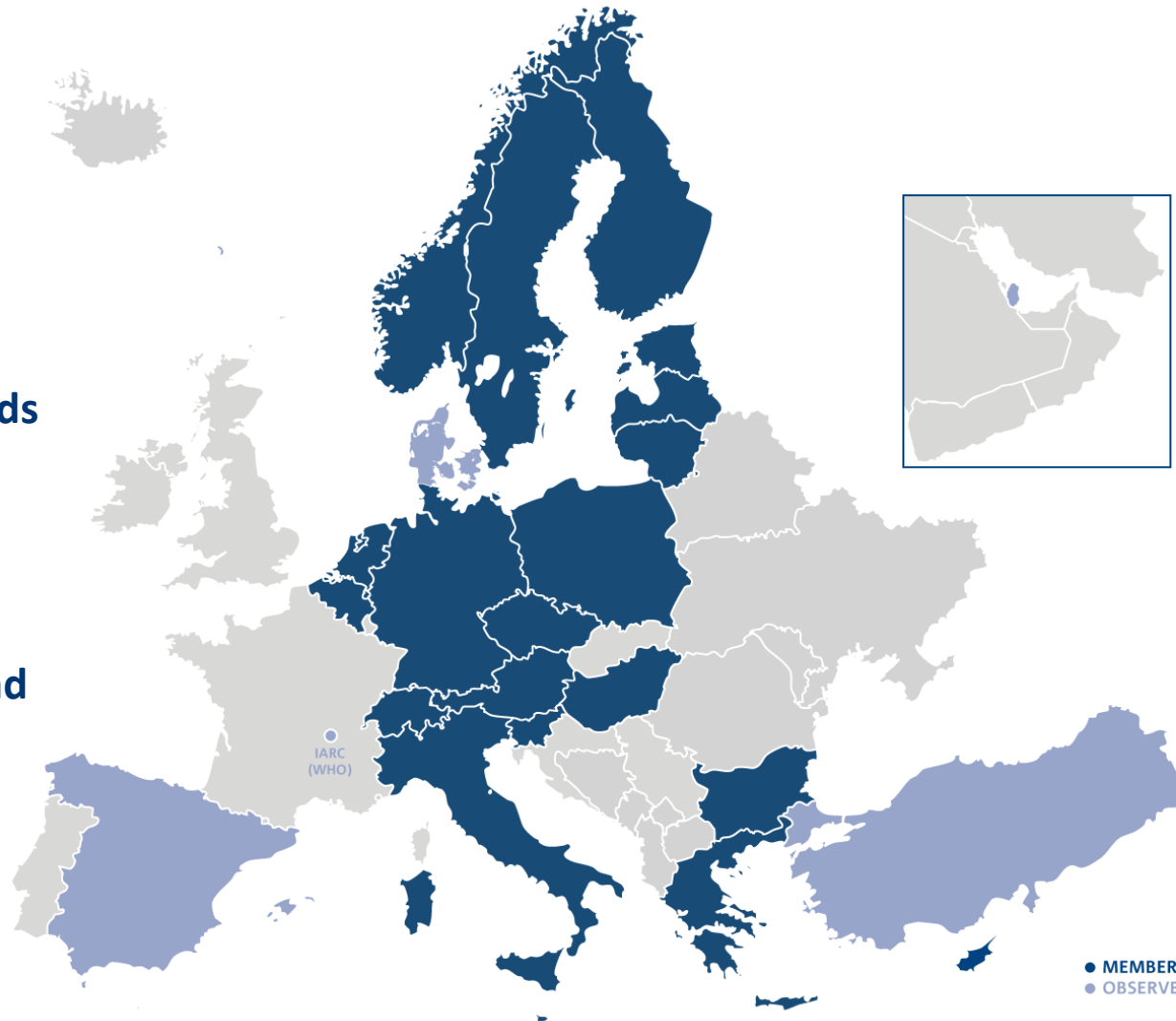
Head of Quality Management Department



WE ARE 25

20 Members

Austria	Italy
Belgium	Latvia
Bulgaria	Lithuania
Cyprus	Malta
Czech Republic	Netherlands
Estonia	Norway
Finland	Poland
Germany	Slovenia
Greece	Sweden
Hungary	Switzerland



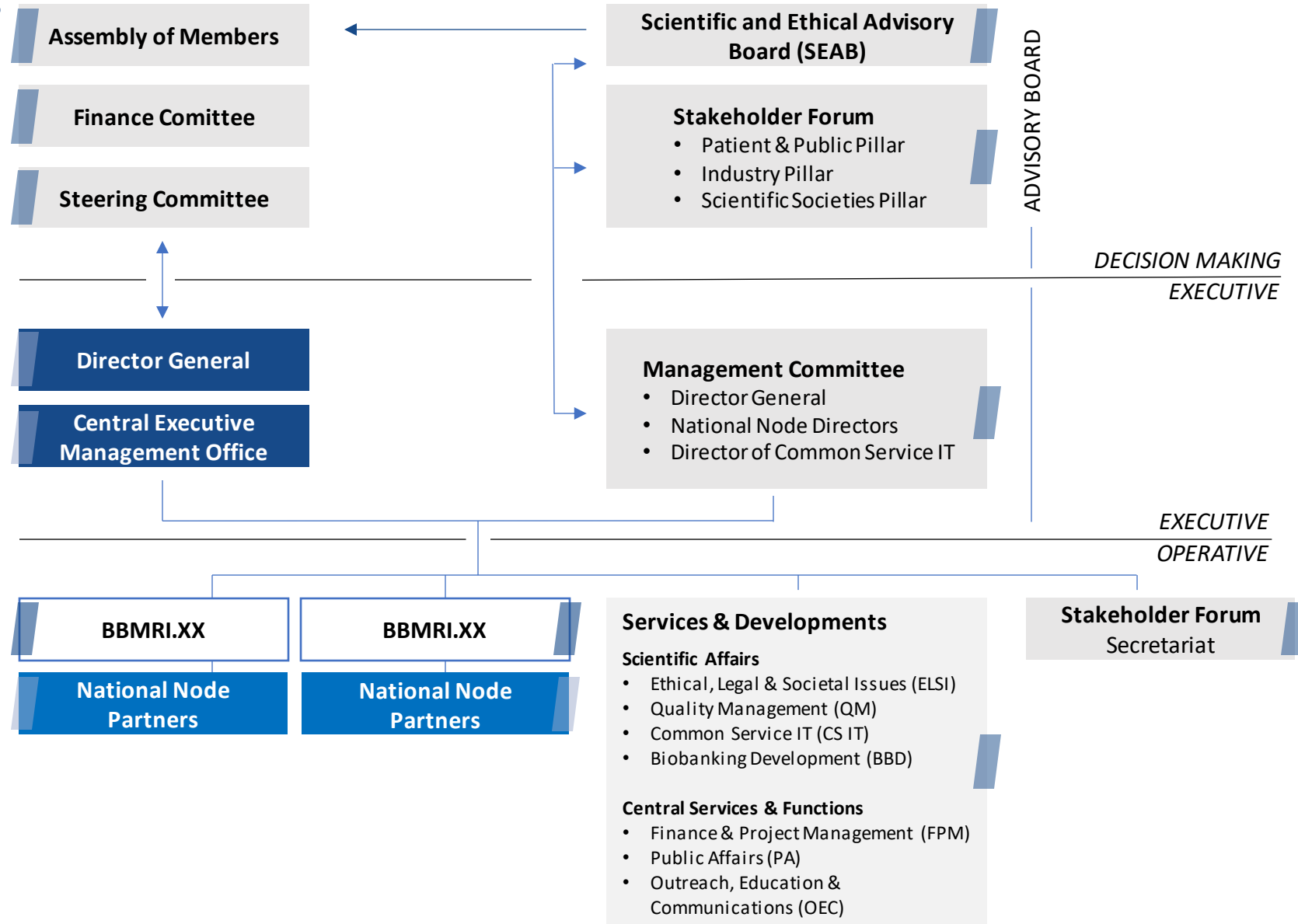
5 Observers

Denmark
IARC/WHO
Qatar
Spain
Turkey

- > 400 biobanks
- 3 Expert Centres
- Headquarters in Austria
- 25 National Nodes and affiliated partners
- 25 active projects
- 19 submitted projects (2023)
- 20 completed projects

● MEMBERS
● OBSERVERS

GOVERNANCE



BBMRI enabling personalised medicine through:

- Knowledge Base
- Helpdesk Network
- Ethics Check
- Training
- Code of Conduct for Health Research
- Member States & Strategic Partners
- EU & Global Affairs
- Patients & Public
- Scientific Societies
- Industry Collaborations

ELSI Services & Research

Public Affairs & Stakeholder Engagement

Biobanking Development

Outreach, Education & Communication

- Biobanks & Universities
- National Nodes
- Expert Centres
- Sustainability



IT Services & Research

- Discovery of biobanking resources
- Access to samples and data
- Data deposition, pooling, analyses
- Interoperability
- Data protection and access control
- Quality controlling & reusability
- Training & Support

Quality Management Services & Research

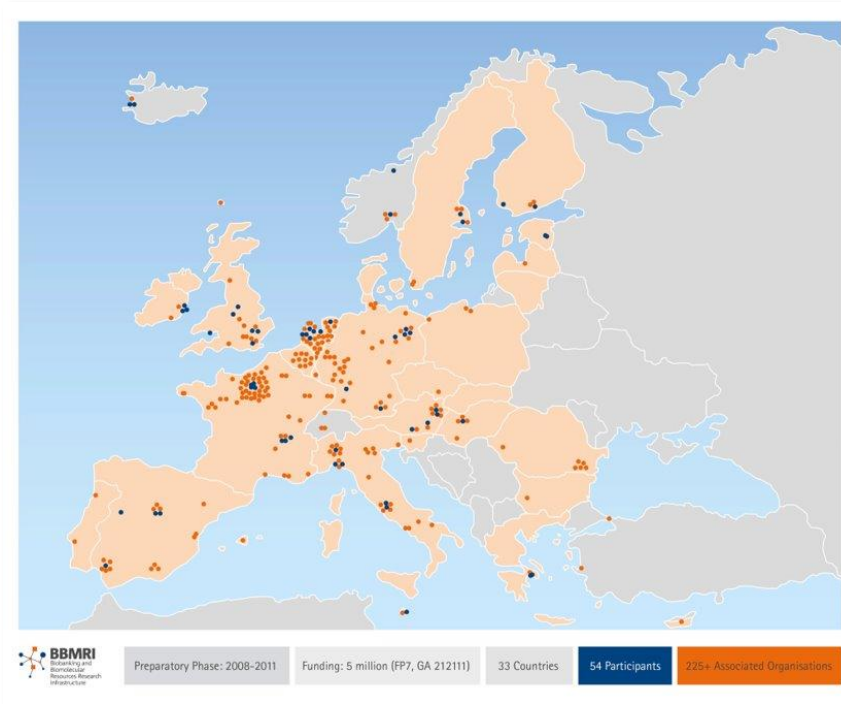
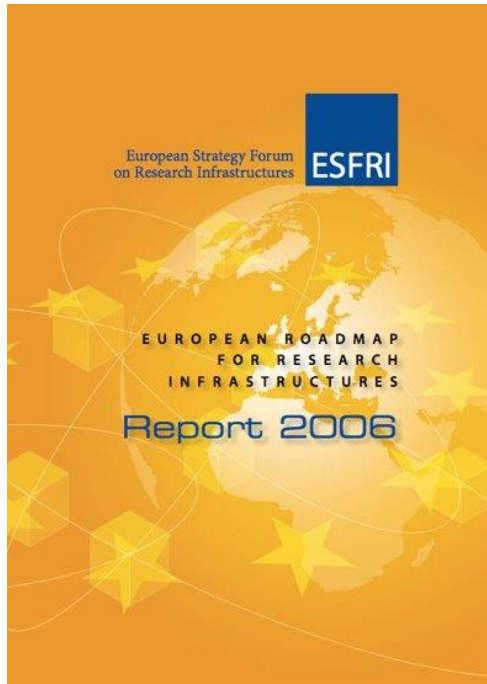
- Knowledge Hub
- Training & Support
- Auditing
- Quality Assurance

QUALITY MANAGEMENT SERVICES – REVIEW AND OUTLOOK

- History and Quality Policy
- QM Engagement in International Organisations for Standardisation
- International standards relevant for biobanking
- BBMRI-ERIC Quality Management Services “Knowledge / Training / Audit Programme / Research”
- **BBMRI-ERIC Audit Programme**
 -  BBMRI-ERIC Quality Label a quality indicator for biobanks and sample collections
- **BBMRI-ERIC Support Biobanks for accreditation**
 -  Biobank Accreditation – by 3rd party – National Accreditation bodies

History

ESFRI ROADMAP / PREPARATORY PHASE 2008 – 2011 / LEGAL STATUS DECEMBER 2013 – 10 YEAR ANNIVERSARY 2023



BBMRI-ERIC QUALITY POLICY

All Partners should commit themselves to implement quality management/assurance procedures compliant with applicable European and International standards, OECD best practice guidelines for Global Biological Resource Centres Networks and WHO/IARC Common Minimum Technical Standards and Protocols for Biobanks Dedicated to Cancer Research.

SOPs should be established and made publicly available for all processes related to sample collection, processing, storage, retrieval and dispatch. It is recommended that SOPs should follow the procedures as specified in the WHO/IARC guidelines for biological resource centres for cancer research whenever feasible.

A biobank (collection) shall be provided a unique persistent identifier as a part of registering the biobank (collection) in the BBMRI-ERIC Directory. Partners are also encouraged to participate and benefit from the quality services of BBMRI-ERIC.

INTERNATIONAL BIOBANKING STANDARD

- Biotechnology – Biobanking – General requirements for biobanking (ISO 20387:2018)

This document specifies general requirements for the competence, impartiality and consistent operation of biobanks including quality control requirements to ensure biological material and data collections of appropriate quality.

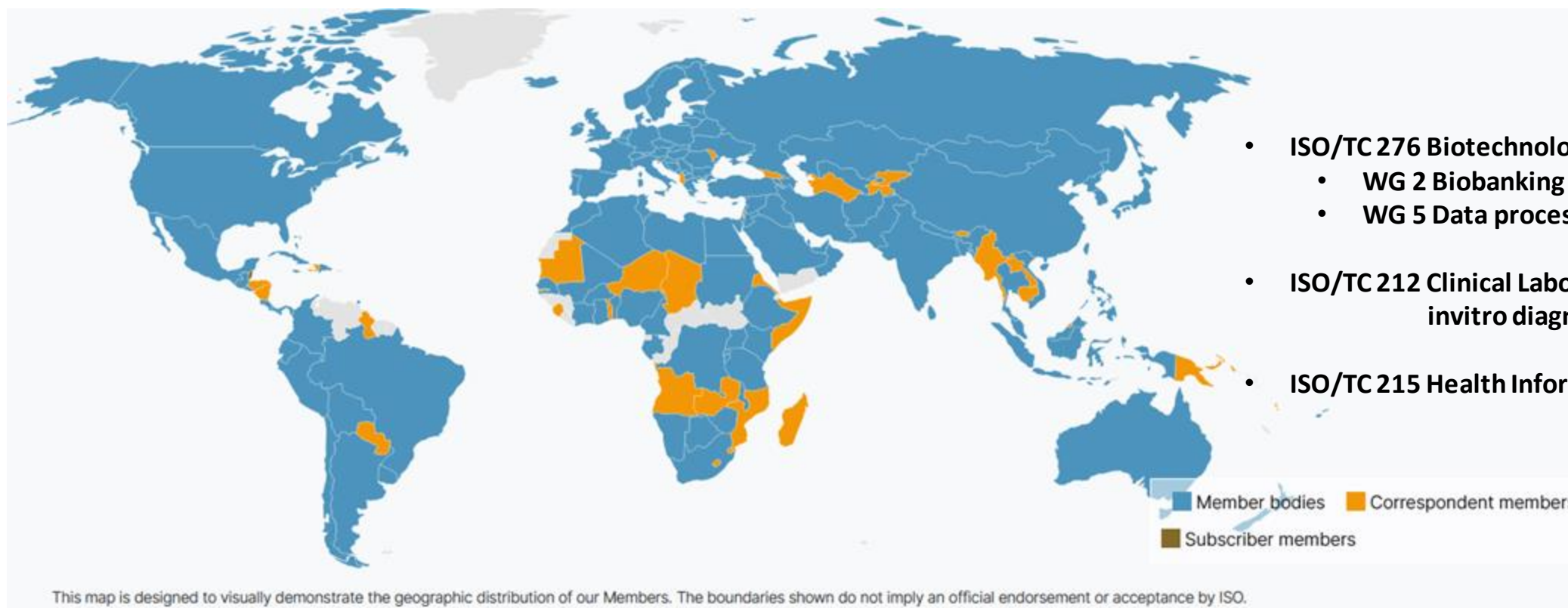
This document is applicable to all organizations performing biobanking, including biobanking of biological material from multicellular organisms (e.g. human, animal, fungus and plant) and microorganisms for research and development.

Biobank users, regulatory authorities, organizations and schemes using peer-assessment, accreditation bodies, and others can also use this document in confirming or recognizing the competence of biobanks.

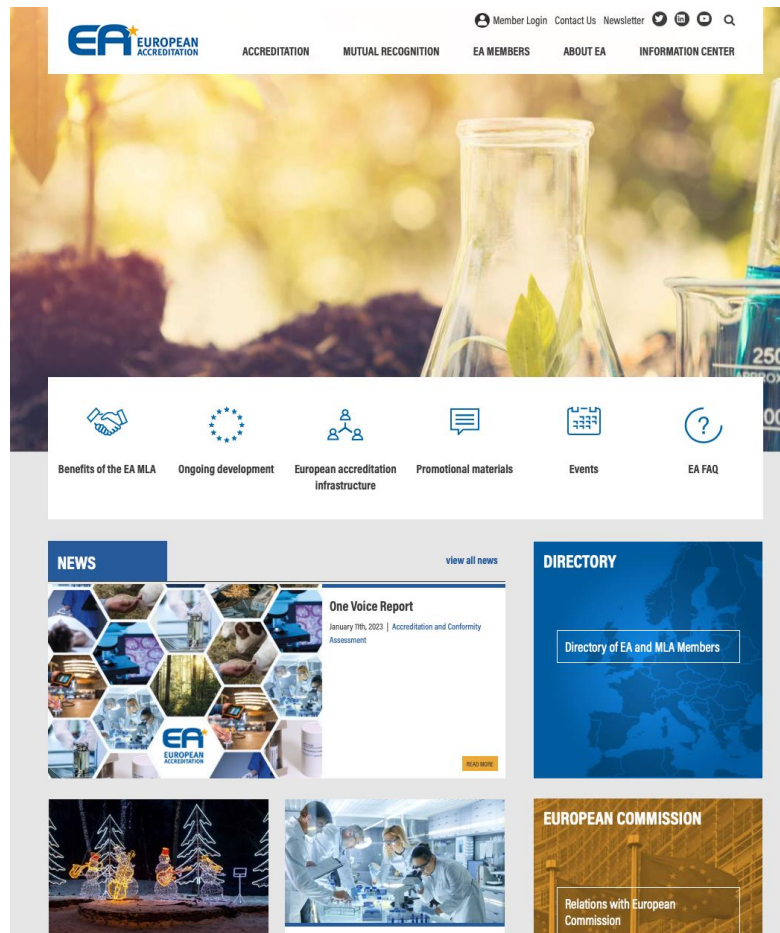
- Quality management systems – Requirements (ISO 9001:2015)

This International Standard promotes the adoption of a process approach when developing, implementing and improving the effectiveness of a quality management system, to enhance customer satisfaction by meeting customer requirements. This International Standard can be used by internal and external parties, including certification bodies, to assess the organisation's ability to meet customer, statutory and regulatory requirements applicable to the product, and the organisation's own requirements.

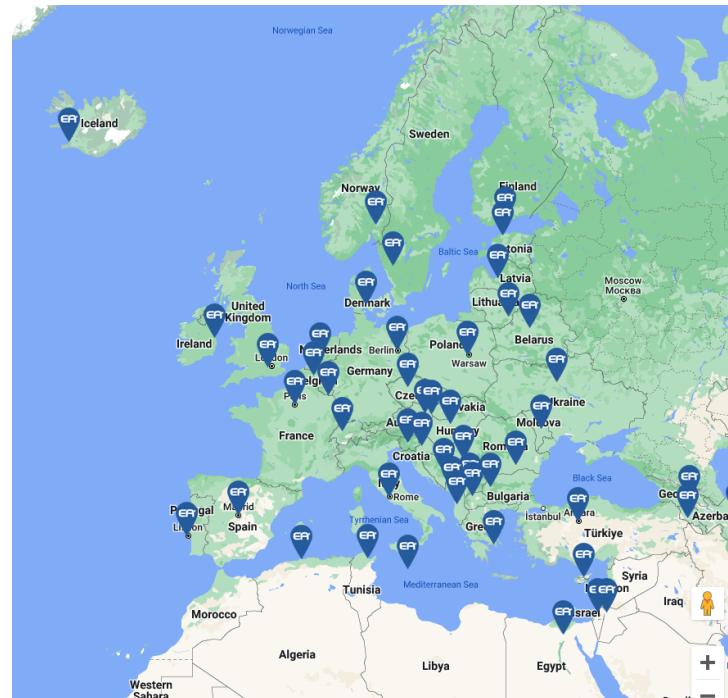
SINCE 2015 BBMRI-ERIC LIAISON WITH INTERNATIONAL STANDARDIZATION ORGANISATION (ISO)



BBMRI-ERIC COLLABORATION WITH EUROPEAN ACCREDITATION (EA)



The screenshot shows the EA website interface. At the top, there is a navigation bar with the EA logo and menu items: ACCREDITATION, MUTUAL RECOGNITION, EA MEMBERS, ABOUT EA, and INFORMATION CENTER. Below the navigation bar is a main content area with a background image of laboratory glassware. A secondary navigation bar contains icons for: Benefits of the EA MLA, Ongoing development, European accreditation Infrastructure, Promotional materials, Events, and EA FAQ. Below this, there are three main sections: NEWS (with a 'view all news' link), DIRECTORY (with a 'Directory of EA and MLA Members' link), and EUROPEAN COMMISSION (with a 'Relations with European Commission' link). The NEWS section features a 'One Voice Report' dated January 7th, 2023, regarding Accreditation and Conformity Assessment. The EUROPEAN COMMISSION section includes an image of scientists in a lab and a Christmas tree scene.

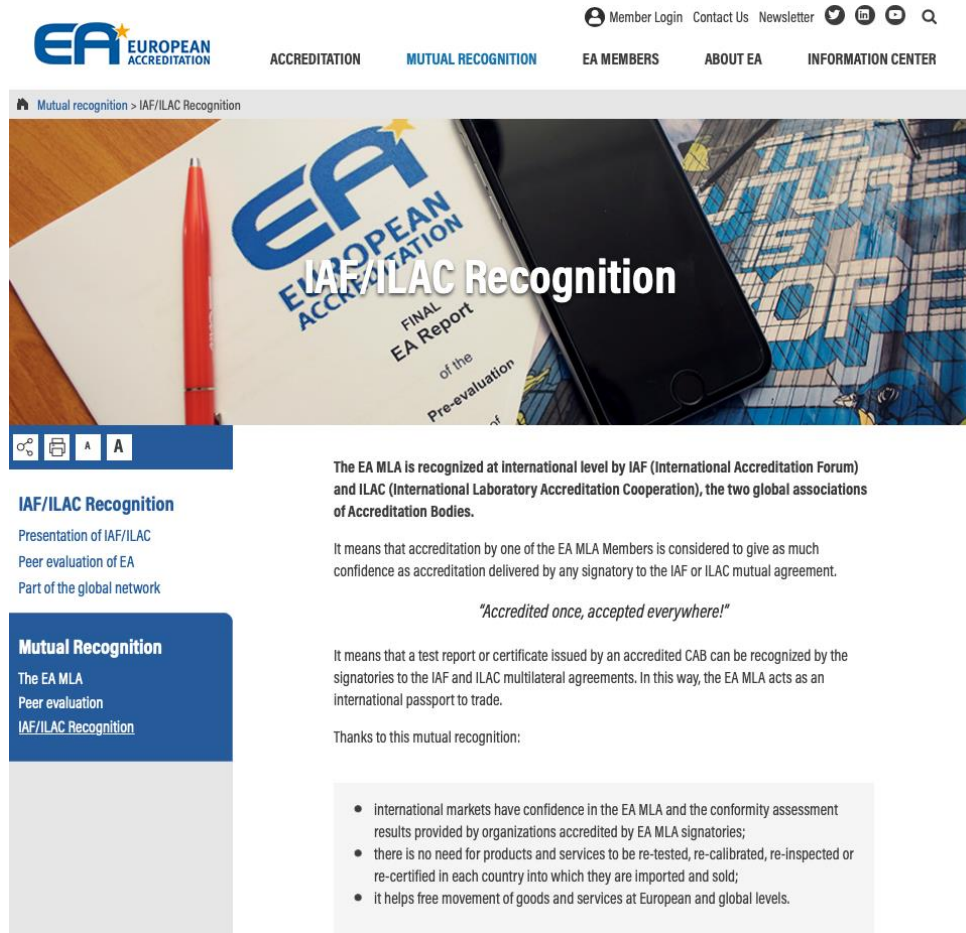


The map shows the geographical distribution of EA Multilateral Agreement (EA MLA) signatories across Europe and the Mediterranean region. Markers with the EA logo are placed over various countries, including Iceland, Norway, Sweden, Finland, Denmark, Germany, France, Ireland, United Kingdom, Poland, Czechia, Slovakia, Austria, Hungary, Croatia, Bulgaria, Greece, Turkey, Israel, and Azerbaijan. To the right of the map, a detailed list of accreditation bodies is provided, including their names, addresses, phone numbers, fax numbers, and MLA signatory dates.

Country	Accreditation Body	Address	Phone	Fax	MLA Signatory Date	Next Re-evaluation	Scopes
France	Comité français d'accréditation	52 rue Jacques Hillairet 75012 - Paris			2021-01	2024-10	Scopes ▼
France	GAC - Unified National Body on Accreditation - Accreditation Centre	42a Kazbegi Av. 0186 - Tbilisi	+995 32 239 93 48		2018-11	2022-11	Scopes ▼
Germany	DAKKS	Deutsche Akkreditierungsstelle GmbH Spittelmarkt 10 10117 - Berlin	+49 (0) 30 67 059 10 +49 (0) 30 67 0591 90		2018-09	2022-09	Scopes ▼
Greece	ESYD	Hellenic Accreditation System 7 Thissos str 17676 Kallithea - Athens	+30 210 7204 502 +30 210 7204 501		2019-05	2023-05	Scopes ▼
Hungary	NAH	National Accreditation Authority Tétényi út 82 1119 - Budapest	+36 1 550-1007 +36 1 550-1036		2018-06	2022-05	Scopes ▼
Iceland	ISAC	Icelandic Board for Technical Accreditation Hugverkastofan Engjateigur 3 105 - Reykjavik	+354 580 9400 +354 580 9401		2022-04	2024-04	Scopes ▼

NETWORK OF ACCREDITATION BODIES
EA Multilateral Agreement (EA MLA) objective
'Accredited once, accepted everywhere'

MUTUAL RECOGNITION EUROPEAN ACCREDITATION (EA) / ILAC / IAF



EA EUROPEAN ACCREDITATION

ACCREDITATION **MUTUAL RECOGNITION** EA MEMBERS ABOUT EA INFORMATION CENTER

Member Login Contact Us Newsletter

Mutual recognition > IAF/ILAC Recognition

IAF/ILAC Recognition

Presentation of IAF/ILAC
Peer evaluation of EA
Part of the global network

Mutual Recognition

The EA MLA
Peer evaluation
[IAF/ILAC Recognition](#)

The EA MLA is recognized at international level by IAF (International Accreditation Forum) and ILAC (International Laboratory Accreditation Cooperation), the two global associations of Accreditation Bodies.

It means that accreditation by one of the EA MLA Members is considered to give as much confidence as accreditation delivered by any signatory to the IAF or ILAC mutual agreement.

"Accredited once, accepted everywhere!"

It means that a test report or certificate issued by an accredited CAB can be recognized by the signatories to the IAF and ILAC multilateral agreements. In this way, the EA MLA acts as an international passport to trade.

Thanks to this mutual recognition:

- International markets have confidence in the EA MLA and the conformity assessment results provided by organizations accredited by EA MLA signatories;
- there is no need for products and services to be re-tested, re-calibrated, re-inspected or re-certified in each country into which they are imported and sold;
- it helps free movement of goods and services at European and global levels.


IAF/ILAC Recognition

Presentation of IAF/ILAC
Peer evaluation of EA
Part of the global network

Mutual Recognition

The EA MLA
Peer evaluation
[IAF/ILAC Recognition](#)

PRESENTATION OF IAF/ILAC



The International Accreditation Forum (IAF) is the world association of National Accreditation Bodies (NAB) interested in conformity assessment in the fields of management systems, products, services, personnel, validation and verification, and other similar programs of conformity assessment.

IAF has two objectives:

1. Ensure that its Accreditation Body Members only accredit bodies that are competent to do the work they undertake and are not subject to conflicts of interest.
2. Establish mutual recognition arrangements, known as Multilateral Recognition Arrangements (MLAs), between its Accreditation Body Members which reduce risk to businesses and their customers by ensuring that an accredited certificate may be relied upon anywhere in the world.

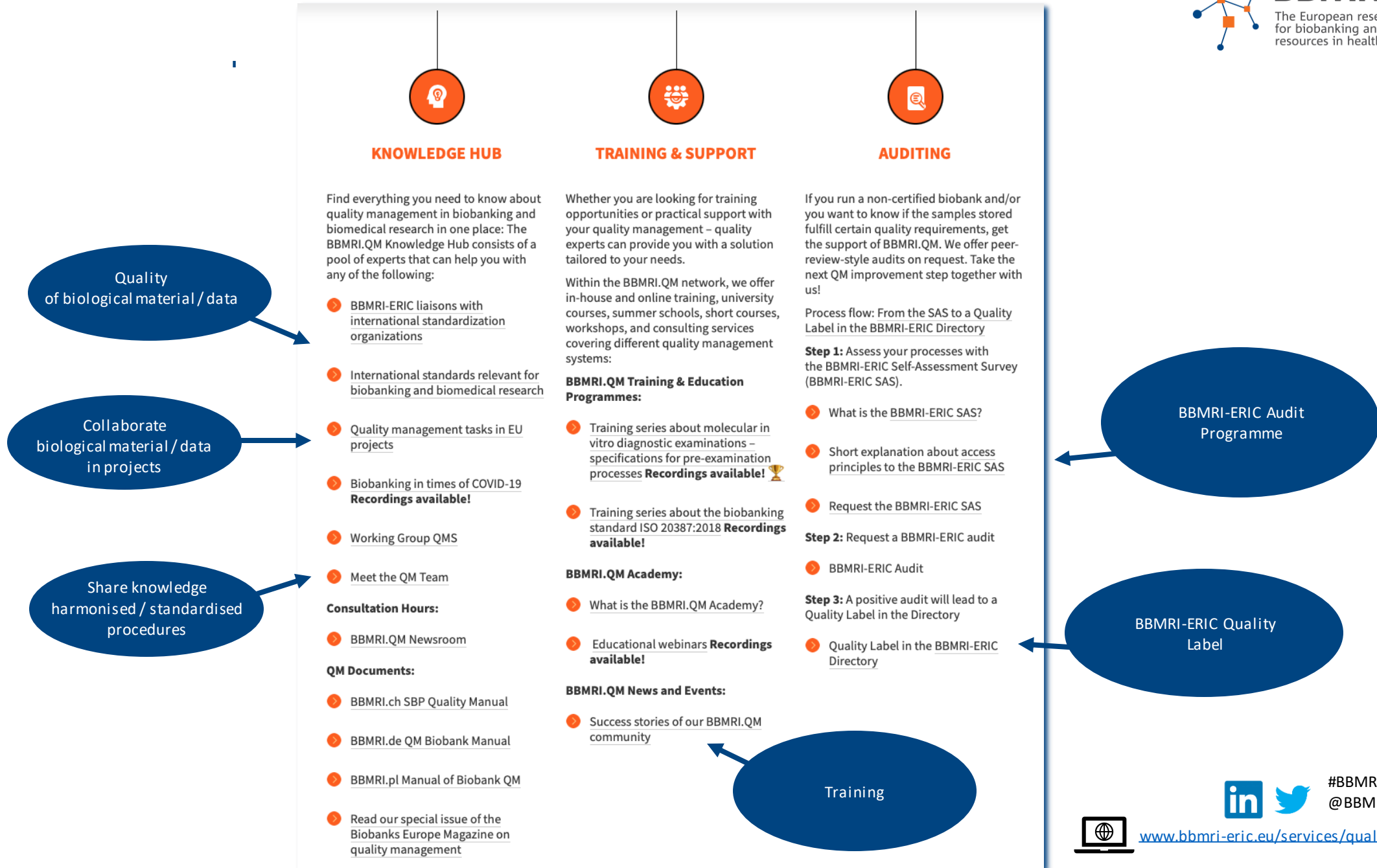
Currently there are four main scopes for the IAF MLA:

- Management Systems Certification using ISO/IEC 17021-1;
- Product Certification using ISO/IEC 17065;
- Certification of Persons using ISO/IEC 17024;
- Validation and Verification using ISO 14065.

As of February 2022, the IAF MLA Members are:

- **5 Recognized Regional Accreditation Groups:**
 - Arab Accreditation Cooperation (ARAC);
 - European co-operation for Accreditation (EA);
 - Inter American Accreditation Cooperation (IAAC);
 - Asia Pacific Accreditation Cooperation (APAC);
 - African Accreditation Cooperation (AFRAC);
- **88 National Accreditation Body Members.**

For further details, visit the [IAF website](#) or read [IAF newsletters](#)



KNOWLEDGE HUB

Find everything you need to know about quality management in biobanking and biomedical research in one place: The BBMRI.QM Knowledge Hub consists of a pool of experts that can help you with any of the following:

- [BBMRI-ERIC liaisons with international standardization organizations](#)
- [International standards relevant for biobanking and biomedical research](#)
- [Quality management tasks in EU projects](#)
- [Biobanking in times of COVID-19 **Recordings available!**](#)
- [Working Group QMS](#)
- [Meet the QM Team](#)
- Consultation Hours:**
- [BBMRI.QM Newsroom](#)
- QM Documents:**
- [BBMRI.ch SBP Quality Manual](#)
- [BBMRI.de QM Biobank Manual](#)
- [BBMRI.pl Manual of Biobank QM](#)
- [Read our special issue of the Biobanks Europe Magazine on quality management](#)



TRAINING & SUPPORT

Whether you are looking for training opportunities or practical support with your quality management – quality experts can provide you with a solution tailored to your needs.

Within the BBMRI.QM network, we offer in-house and online training, university courses, summer schools, short courses, workshops, and consulting services covering different quality management systems:

BBMRI.QM Training & Education Programmes:

- [Training series about molecular in vitro diagnostic examinations – specifications for pre-examination processes **Recordings available!**](#) 🏆
- [Training series about the biobanking standard ISO 20387:2018 **Recordings available!**](#)

BBMRI.QM Academy:

- [What is the BBMRI.QM Academy?](#)
- [Educational webinars **Recordings available!**](#)

BBMRI.QM News and Events:

- [Success stories of our BBMRI.QM community](#)



AUDITING

If you run a non-certified biobank and/or you want to know if the samples stored fulfill certain quality requirements, get the support of BBMRI.QM. We offer peer-review-style audits on request. Take the next QM improvement step together with us!

Process flow: From the SAS to a Quality Label in the BBMRI-ERIC Directory

Step 1: Assess your processes with the BBMRI-ERIC Self-Assessment Survey (BBMRI-ERIC SAS).

- [What is the BBMRI-ERIC SAS?](#)
- [Short explanation about access principles to the BBMRI-ERIC SAS](#)
- [Request the BBMRI-ERIC SAS](#)

Step 2: Request a BBMRI-ERIC audit

- [BBMRI-ERIC Audit](#)

Step 3: A positive audit will lead to a Quality Label in the Directory

- [Quality Label in the BBMRI-ERIC Directory](#)






BBMRI-ERIC Audit Programme

BBMRI-ERIC Quality Label

Training



BUILDING BIOBANKING ACTIVITIES ON INTERNATIONAL STANDARDS

-  **Biobanking** – General requirements for biobanking, ISO 20387:2018
-  **Quality management systems** – Requirements, ISO 9001:2015
-  **Specifications for pre-examination processes** for **tissues, blood, serum, plasma, saliva, stool, body fluids** *and more of these Technical Specifications for molecular in vitro diagnostic examinations
-  Guidelines for **auditing management systems**, ISO 19011:2018
- !new!**  **Provenance information model for biological material and data** — Part 1: Design concepts and general requirements, ISO/TS 23494-1:2023



INTERNATIONAL
STANDARD

ISO
20387

First edition
2018-08

**Biotechnology — Biobanking —
General requirements for biobanking**

*Biotechnologie — «Biobanking» — Exigences générales relatives au
«biobanking»*



Licensed to BBMRI-ERIC, Beltran (secretary@bbmri-eric.eu)
ISO Store Order: 1730000 / Downloaded: 2018-08-20
Single user license, copying and networking prohibited.

Reference number
ISO 20387:2018(E)

© ISO 2018

7 Process requirements

7.2 Collection of biological material and associated data

7.2.1 Documented information requirements

7.2.2 Pre-acquisition information

7.2.3 Collection procedure

 **“21” ISO/CEN standards for pre-examination processes**

QUALITY OF BIOLOGICAL MATERIAL

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

Stephen A Bustin. The reproducibility of biomedical research: sleepers
awake! *Biomolecular Detection and Quantification* **2014**, pp. 35-42

Freedman LP et al. The Economics of Reproducibility in Preclinical
Research. *Plos Biol.* **2015** Jun 9;13(6):e1002165.

PREANALYTICAL ERRORS

IRREPRODUCIBLE RESEARCH

ECONOMIC LOSS



The collage includes several scientific articles and journal covers:

- Top right:** A snippet of an article titled "Preanalytical quality improvement: from dream to reality" from *Clin Chem Lab Med.* It discusses laboratory diagnostics and preanalytical errors.
- Middle right:** A journal cover for *Biomolecular Detection and Quantification* featuring a review article titled "The reproducibility of biomedical research" by Stephen A. Bustin.
- Bottom right:** A journal cover for *PLOS Biology* featuring an article titled "The Economics of Reproducibility in Preclinical Research" by Leonard P. Freedman et al.

SPECIMEN PROCESSING

INTERNATIONAL STANDARDS



ISO 20184-1 **frozen tissue** – Part 1: Isolated RNA
 ISO 20184-2 **frozen tissue** – Part 2: Isolated proteins
 ISO 20184-3 **frozen tissue** – Part 3: Isolated DNA

ISO 20166-1, **FFPE tissue** – Part 1: Isolated RNA
 ISO 20166-2, **FFPE tissue** – Part 2: Isolated proteins
 ISO 20166-3, **FFPE tissue** – Part 3: Isolated DNA
 ISO 20166-4, **FFPE tissue** – Part 4: In situ detection techniques

ISO 20186-1, **venous whole blood** - Part 1: Isolated cellular RNA
 ISO 20186-2, **venous whole blood** - Part 2: Isolated genomic DNA
 ISO 20186-3, **venous whole blood** – Part 3: Isolated circ. cell-free
 DNA from plasma

ISO 23118:2021 **metabolomics in urine, venous blood serum and plasma**

ISO/TS 21899:2020, **Validation and verification of processing methods for
 biological materials in biobanks**

ISO/TS 20658:2017, **Medical laboratories — Requirements for collection,
 transport, receipt, and handling of samples**



SPECIMEN PROCESSING

EUROPEAN STANDARDS



CEN/TS 17390-1:2020, **circulating tumor cells (CTCs) in venous whole blood** – Part 1: Isolated RNA

CEN/TS 17390-2:2020, **circulating tumor cells (CTCs) in venous whole blood** – Part 2: Isolated DNA

CEN/TS 17390-3:2020, **circulating tumor cells (CTCs) in venous whole blood** – Part 3: Preparations for analytical CTC staining

CEN/TS 17626:2021, **human specimen** – Isolated microbiome DNA

CEN/TS 17688-1:2021, **Fine Needle Aspirates (FNAs)** – Part 1: Isolated cellular RNA

CEN/TS 17688-2:2021, **Fine Needle Aspirates (FNAs)** – Part 2: Isolated proteins

CEN/TS 17688-3:2021, **Fine Needle Aspirates (FNAs)** – Part 3: Isolated genomic DNA

CEN/TS 17742:2022, **venous whole blood** – isolated ccf RNA from plasma






CEN/TS 17747:2022, **exosomes and other extracellular vesicles in venous whole blood** - DNA, RNA and proteins

CEN/TS 17811:2022, **urine and other body fluids** - Isolated cf DNA



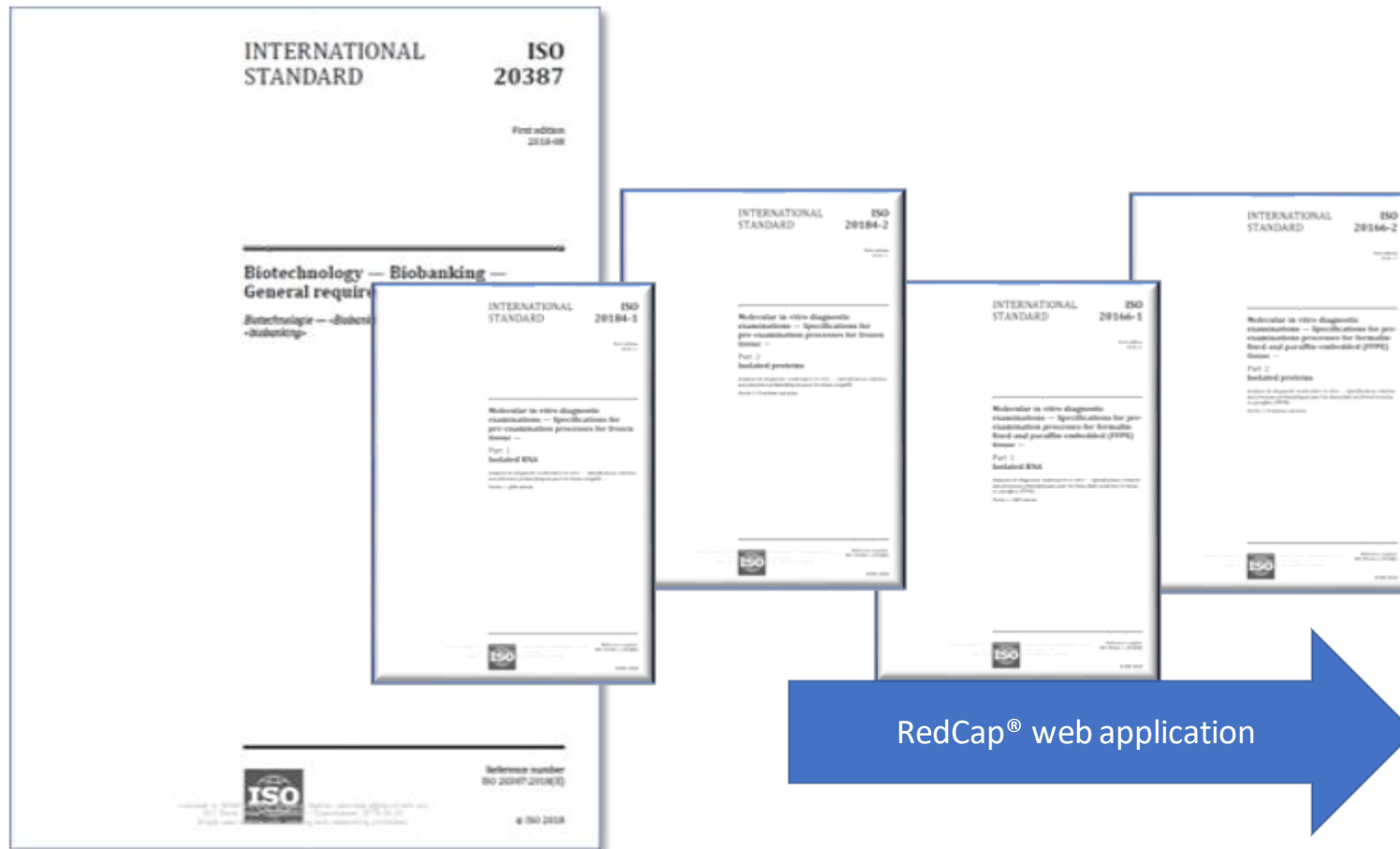
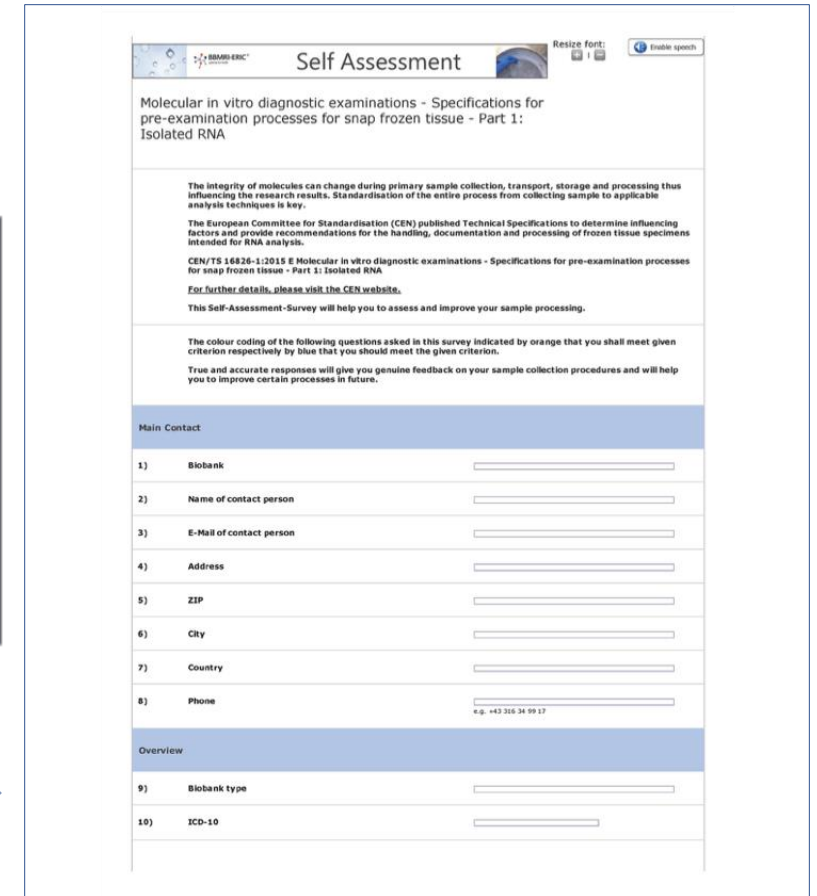
INTERNATIONAL STANDARDS

DATA QUALITY, DATA SECURITY

-  **Data quality** – Master data and Data quality management: ISO 8000 Series
-  **Information technology** – Security techniques – **Information security management systems** – Requirements, ISO/IEC 27001:2022
-  **Information security, cybersecurity and privacy protection** – Information security controls, ISO/IEC 27002:2022
-  **Information technology** – Security techniques – Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors, ISO/IEC 27018:2019
-  And more...

BBMRI-ERIC audit programmes support improvement measures

FROM STANDARD TO SELF-ASSESSMENT SURVEY (SAS)

The screenshot shows a web application interface for a "Self Assessment" survey. The title is "Molecular in vitro diagnostic examinations - Specifications for pre-examination processes for snap frozen tissue - Part 1: Isolated RNA". The form includes introductory text about the survey's purpose and a color-coding key (orange for "shall meet", blue for "should meet"). Below this is a "Main Contact" section with input fields for:

- 1) Biobank
- 2) Name of contact person
- 3) E-Mail of contact person
- 4) Address
- 5) ZIP
- 6) City
- 7) Country
- 8) Phone (with example: e.g. +43 316 34 99 17)

Below the contact information is an "Overview" section with input fields for:

- 9) Biobank type
- 10) ICD-10

BBMRI-ERIC AUDIT PROGRAMME

OVERVIEW: FROM THE BBMRI-ERIC SELF-ASSESSMENT SURVEY (SAS) TO QUALITY LABEL

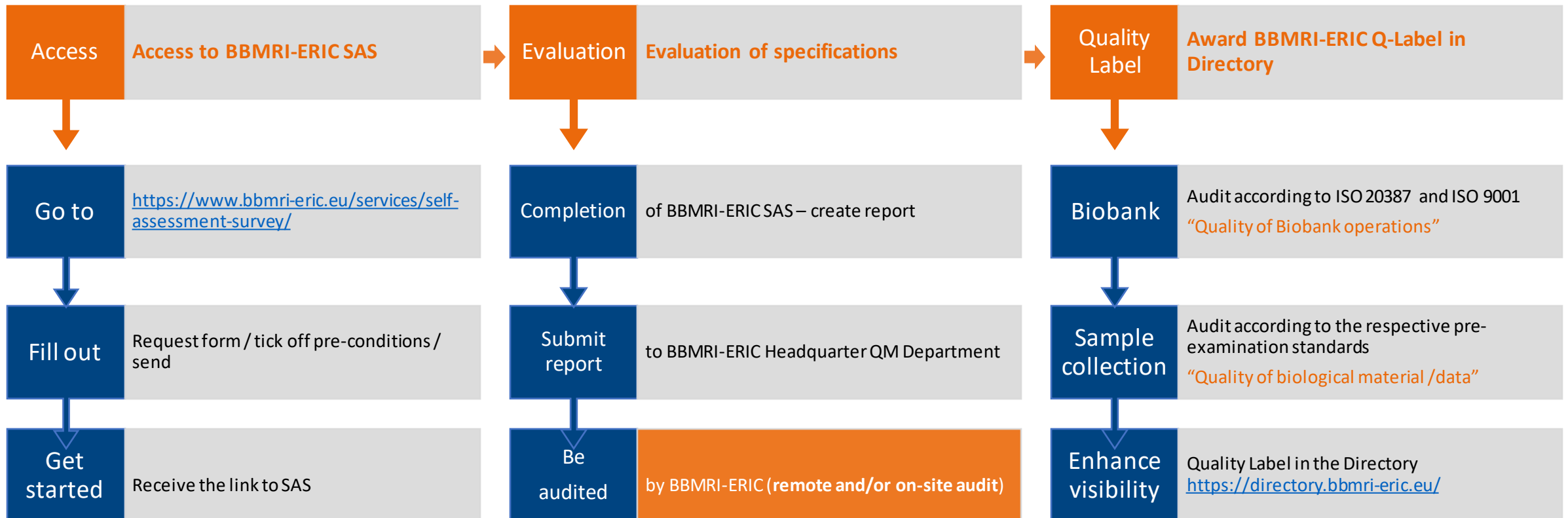
Quality labels 1 More filters

Match all Match any

Certified by accredited body

BBMRI-ERIC audited

Deselect all



ACCESS TO BBMRI-ERIC SAS ON WEBSITE



AUDITING

If you run a non-certified biobank and/or you want to know if the samples stored fulfill certain quality requirements, get the support of BBMRI.QM. We offer peer-review-style audits on request. Take the next QM improvement step together with us!

Process flow: From the SAS to a Q-mark in the BBMRI-ERIC Directory

Step 1: Assess your processes with the BBMRI-ERIC Self-Assessment Survey (BBMRI-ERIC SAS).

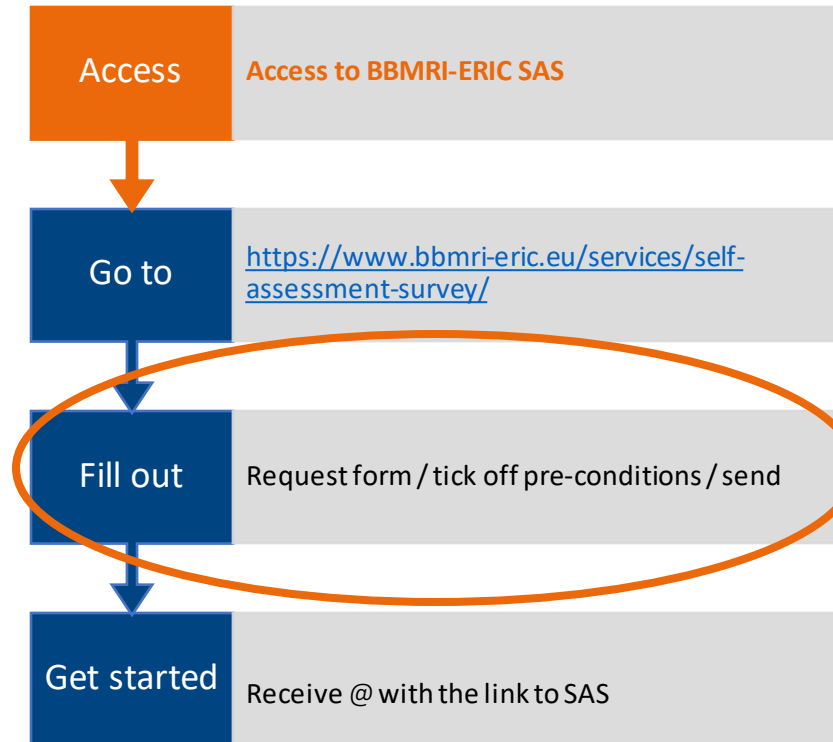
- What is the BBMRI-ERIC SAS?
- Short explanation about access principles to the BBMRI-ERIC SAS
- Request the BBMRI-ERIC SAS

Step 2: Request a BBMRI-ERIC audit

- BBMRI-ERIC Audit

Step 3: A positive audit will lead to a quality mark in the Directory

- Q-mark in the BBMRI-ERIC Directory



<https://www.bbmri-eric.eu/services/self-assessment-survey/>

REQUEST FOR A SELF-ASSESSMENT SURVEY

Please fill in your contact information:

*Name

*E-mail address

*Affiliation

*Address/Country

Please provide us with some information by answering the following questions:

* Is your organisation located in a BBMRI-ERIC Member/Observer State? See <http://www.bbmri-eric.eu/national-nodes/>
 Yes No

* Are you in contact with the coordinating office from the National Node in your country? See <http://www.bbmri-eric.eu/national-nodes/>
 Yes No

* Have you purchased the required ISO and CEN/TS standards, as the basis for your biobanking and specimen handling procedures? See <http://www.bbmri-eric.eu/services/standardisation/>
 Yes No

* Please select the required BBMRI-ERIC Self-Assessment Surveys from the list below:

Quality Management Systems - General Requirements for Biobanking, ISO 20387:2018

Specifications for pre-examination processes for frozen tissue - Part 1: Isolated RNA, ISO 20184-1:2018

Specifications for pre-examination processes for frozen tissue - Part 2: Isolated proteins, ISO 20184-2:2018

Specifications for pre-examination processes for frozen tissue - Part 3: Isolated DNA, ISO 20184-3:2021

Specifications for pre-examination processes for FFPE tissue - Part 1: Isolated RNA, ISO 20166-1:2018

Specifications for pre-examination processes for FFPE tissue - Part 2: Isolated proteins, ISO 20166-2:2018

Specifications for pre-examination processes for FFPE tissue - Part 3: Isolated DNA, ISO 20166-3:2018

Specifications for pre-examination processes for venous whole blood - Part 1: Isolated cellular RNA, ISO 20186-1:2019


Specifications for pre-examination processes for venous whole blood - Part 2: Isolated genomic DNA, ISO 20186-2:2019

Specifications for pre-examination processes for venous whole blood - Part 3: Isolated cfDNA from plasma, ISO 20186-3:2019

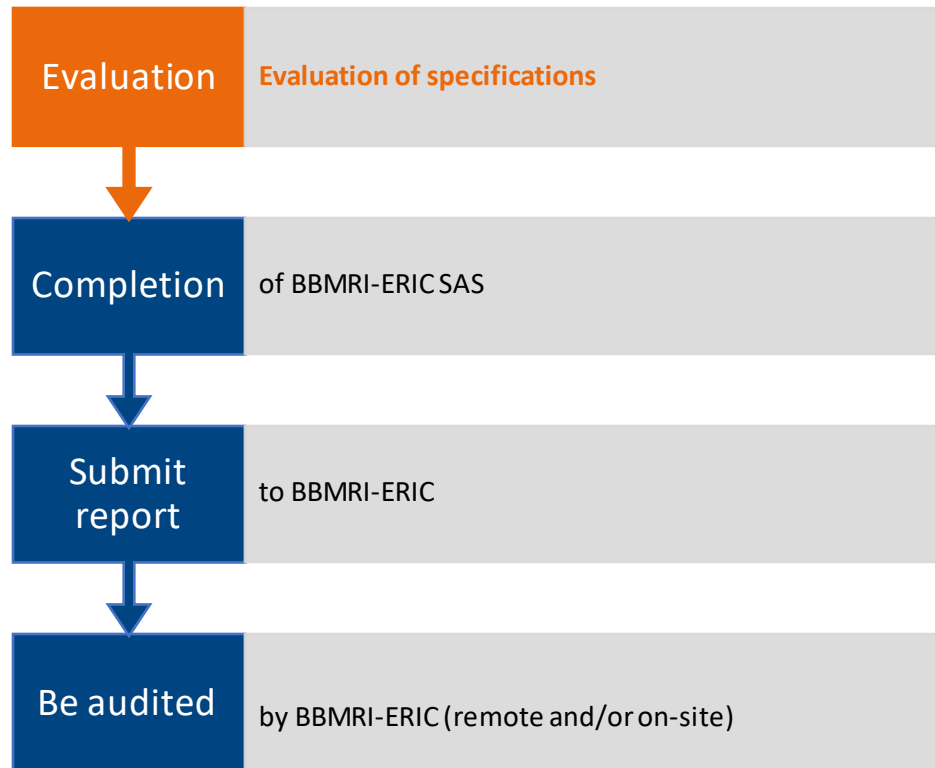
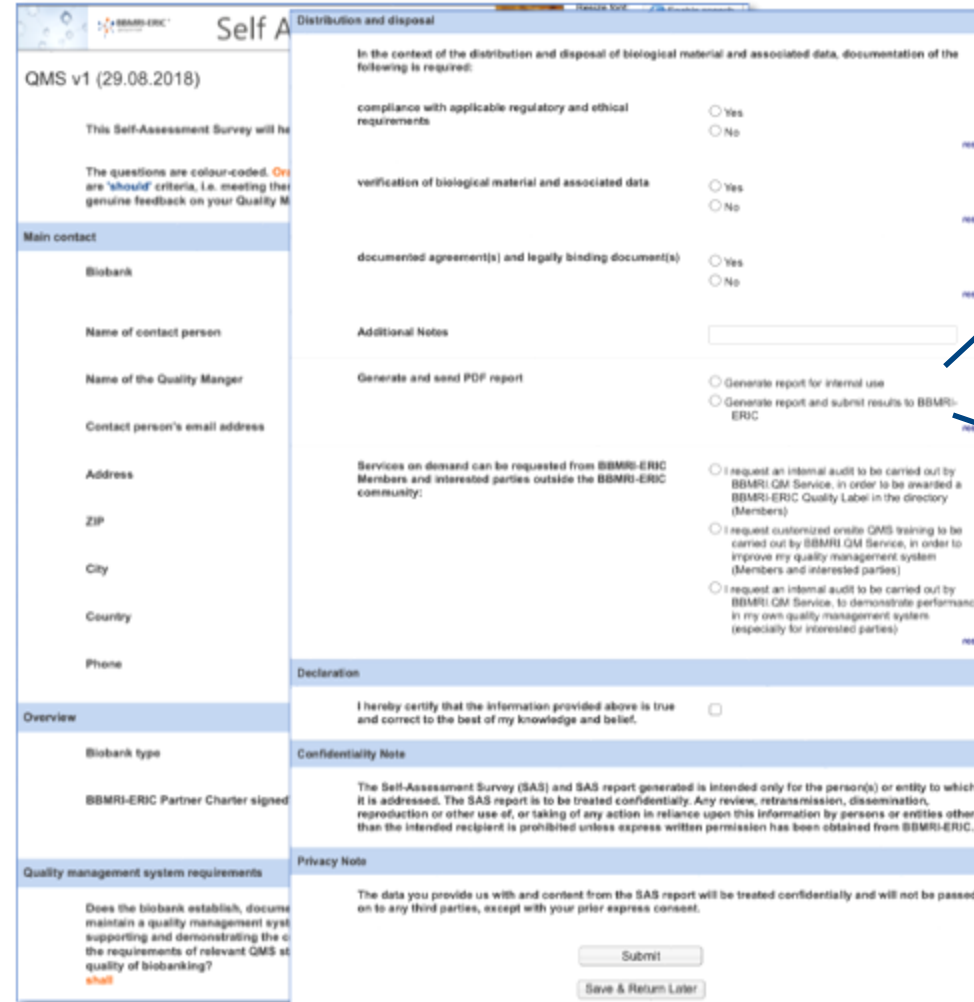
Specifications for pre-examination processes for metabolomics in urine, CEN/TS 16540:2016

Specifications for pre-examination processes for metabolomics in serum and plasma, CEN/TS 16945:2016

Comments

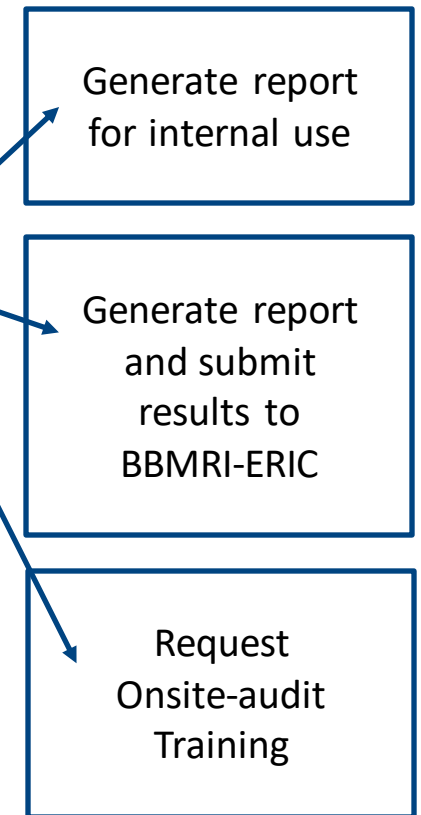
I'm not a robot 

SELF-EVALUATION

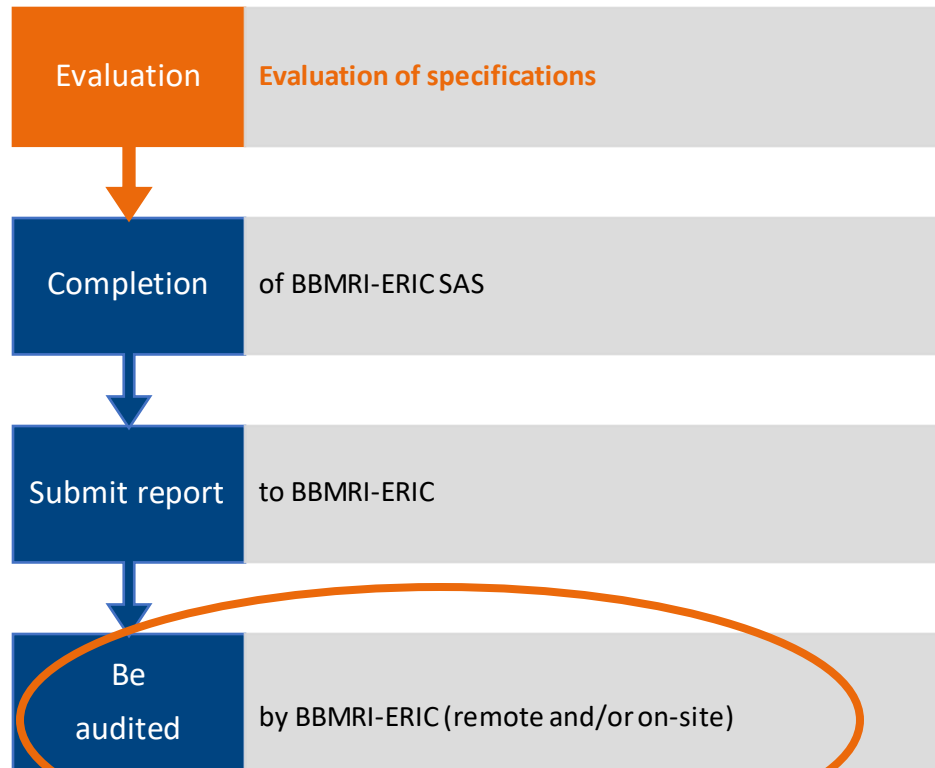



The screenshot shows the 'Distribution and disposal' section of the SAS form. It includes the following content:

- Header:** 'Self A' and 'QMS v1 (29.08.2018)'. A note states: 'The questions are colour-coded. Orange are 'should' criteria, i.e. meeting them is a genuine feedback on your Quality Management System.'
- Main contact information:** Fields for Biobank, Name of contact person, Name of the Quality Manager, Contact person's email address, Address, ZIP, City, Country, and Phone.
- Declaration:** A checkbox for 'I hereby certify that the information provided above is true and correct to the best of my knowledge and belief.'
- Confidentiality Note:** A paragraph stating that the SAS report is confidential and should not be disseminated without permission.
- Privacy Note:** A paragraph stating that the data provided will be treated confidentially.
- Buttons:** 'Submit' and 'Save & Return Later'.



EVALUATION OF SPECIFICATIONS



BIOBANK LEVEL
ISO 20387

1. conducting remote audit
2. Conducting **on-site audit**
 - a) by auditors of the country
 - b) by BBMRI-ERIC Headquarters QM
3. Positive assessment – Quality Label

SAMPLE/COLLECTION LEVEL
PRE-ANALYTICAL STD'S

1. conducting a remote audit
 - a) by BBMRI-ERIC Headquarters QM
 - b) by auditors of the country
2. Positive assessment – Quality Label

BBMRI-ERIC AUDIT PROGRAMME

AUDIT PROCESS

Quality labels **1** [More filters](#)

Match all Match any

Certified by accredited body

BBMRI-ERIC audited

[Deselect all](#)



BBMRI-ERIC ONSITE AUDIT CHECKLIST / REPORT

BBMRI-ERIC
Biobank on-
ISO 20387:2018
Biobanking

Based on the content of this document, the auditor will prepare the report from the BBMRI-ERIC Headquarters – Quality Management (QM) or by auditors on behalf of BBMRI-ERIC QM preparation for the audit and as an audit report for the BBMRI-ERIC QM by the auditors. A closing discussion is conducted by the auditors after the BBMRI Quality Label in the BBMRI-ERIC Directory review of the documents and the closing discussion of the respective biobank works according to the p

ACCESS TO BBMRI-ERIC SAS

- GO TO bbmri-eric.eu/services/self-assessment/survey/
- FILL OUT Request form / tick off pre-conditions / send
- GET STARTED Receive @ with the link to SAS

EVALUATION

- COMP OF BBMRI
- SUBMIT TO BBMRI
- BE REL BY BBMRI

AUDIT PROCESS

- REVIEW SAS-REPORT BBMRI-ERIC HQ
- REMOTE AUDIT BBMRI-ERIC HQ – PRE-ASSESSMENT
- AUDIT ACCORDING TO ISO11:2018 BBMRI-ERIC HQ / NATIONAL NODES QM

- COMP LEAD AT
- ON-SITE 2-3 DAY
- BASED BBMRI

Table of Contents

Details of the biobank
 Details of the auditor(s).....
 4.1 General requirements
 4.2 Impartiality
 4.3 Confidentiality.....
 5 Structural requirements.....
 6.1 Resource requirements, General.....
 6.2 Resource requirements, Personnel.....
 6.3 Facilities/dedicated areas and environmental conditions.....
 6.4 Externally provided processes, products and services.....
 6.5 Equipment.....
 7.1 Process requirements, General.....
 7.2 Collection of biological material and associated data.....
 7.3 Reception and distribution of biological material.....
 7.4 Transport of biological material and associated data.....
 7.5 Traceability of biological material and associated data.....
 7.6 Preparation and preservation of biological material.....
 7.7 Storage of biological material.....
 7.8 Quality control of biological material and associated data.....
 7.9 Validation and verification of methods.....
 7.10 Management of information and data.....
 7.11 Nonconforming output.....
 7.12 Report requirements.....
 7.13 Complaints.....
 8.1 Quality management system requirements, Options.....
 8.2 Documented information for the quality management system.....
 8.3 Control of quality management system documents.....
 8.4 Control of records.....
 8.5 Actions to address risks and opportunities.....
 8.6 Improvement.....
 8.7 Corrective action for nonconforming output.....
 8.8 Internal audits.....
 8.9 Quality management reviews.....
 Audit evaluation and reporting.....
 Audit recommendation¹⁾.....
 Closing discussion between auditors and BBMRI-ERIC QM.....
 Completion of the audit process by BBMRI-ERIC Quality Management.....

Details of the biobank

Name:
 Address:
 File number:
 Report number: BBMRI-ERIC SAS²⁾
 Date of on-site audit (YYYY-MM-DD):
 Biobank with several locations: Yes
 Name / Address of audited location(s):
 Area: In permanent facility
 Administration personnel with indication of the responsibilities:
 Overall responsibility biobank activities:
 Responsibility management system:

Details of the auditor(s)

Name: B-LA B-SA B-TA
 Status³⁾
 Focus area (biobanking fields, sector specific requirements, directives/modules..)
 Name:
 Status³⁾ B-LA B-SA B-TA
 Focus area (biobanking fields, sector specific requirements, directives/modules..)

¹⁾ The BBMRI-ERIC SAS report is provided by the BBMRI-ERIC HQ
²⁾ Status in the BBMRI auditor team: B-LA = BBMRI Lead Auditor; B-SA = BBMRI System A Technical Expert; B-O = BBMRI Observer.

SUMMARY Chapter B-LA B-SA B-TA B-O

4.1 General requirements

Overall evaluation General statement¹⁾
 Findings Justification/specifics/notes:
 Objective evidence / Reviewed documents (OE/RD)²⁾ on-site
 No. OE/RD²⁾ for chapter(s) Title / date / version
 1.
 2.

¹⁾ Provide an overall evaluation of the extent to which the biobank operates according to the "Objective Evidence" to be distinguished from "Reviewed Documents"
²⁾ Grading of fulfillment of the requirements of a section of the standard on-site and after review: C = Conformance, NNC = Noncritical Non-Compliance, CNC = Critical Non-Compliance

Chapter	Requirement General	Reference document Enter document title / date / version Reference to Findings
4.1	The biobank shall have procedures addressing biobanking of each type of biological material and associated data held. This includes processes such as collecting/preserving and/or acquiring and receiving, tagging, accessioning/labeling, cataloguing/classifying, monitoring, preserving, storing, managing data, destroying and transporting. The biobank shall have procedures to ensure compliance with relevant biosafety and biosecurity requirements. The procedures shall also address risks and opportunities using a risk assessment.	1. 2. 3. Note:
4.1.1	The biobank shall have procedures addressing biobanking of each type of biological material and associated data held. This includes processes such as collecting/preserving and/or acquiring and receiving, tagging, accessioning/labeling, cataloguing/classifying, monitoring, preserving, storing, managing data, destroying and transporting. The biobank shall have procedures to ensure compliance with relevant biosafety and biosecurity requirements. The procedures shall also address risks and opportunities using a risk assessment.	1. 2. 3. Note:
4.1.2	When possible, the biobank should be aware of the minimal requirements for biological material and/or associated data destined for downstream application(s) to ensure that biological material and associated data are handled in a way to enable reproducible research.	1. 2. 3. Note:

Chapter	Requirement Quality management reviews	Reference documents for Enter document title / date / version Reference to Findings
8.9.1	The biobank top management shall review its quality management system at planned intervals, in order to ensure its continuing suitability, adequacy and effectiveness, including the stated policies and objectives related to the fulfillment of this document.	1. 2. 3. Note:
8.9.2	The inputs to management review shall be documented and shall include information related to the following: a) changes in internal and external issues that are relevant to the biobank; b) fulfillment of objectives; c) suitability of policies and procedures; d) status of actions from previous management reviews; e) outcome of recent internal audits; f) corrective actions; g) audits by external bodies; h) changes in the volume and type of work or in the range of the biobank's activities; i) provider/receiver/user feedback; j) complaints; k) effectiveness of any implemented improvements; l) adequacy of biological material and associated data; m) results of risk identification; n) outcomes of the quality control; o) other relevant factors, such as monitoring activities and training.	1. 2. 3. Note:
8.9.3	The outputs from the management review shall record decisions and actions related to: a) the effectiveness of the quality management system and its processes; b) improvement of the activities related to the fulfillment of the requirements of this document; c) provision of required biological material and associated data; d) any need for change.	1. 2. 3. Note:

Audit evaluation and reporting

Summary, remarks and potential for improvement completed by auditors (B-LA):

E.g.: Existing certifications, notifications, approvals and recognitions • competence equipment and environmental conditions • fulfillment of additional requirements • the impression with respect to biobank's strengths and weaknesses • suitability and efficiency system including potential for improvement • final evaluation • key aspects/consider

Audit recommendation¹⁾

B-LA B-SA B-TA B-TE B-O recommend the biobank to be awarded Quality Label in the BBMRI-ERIC Directory
 B-LA B-SA B-TA B-TE B-O cannot recommend the biobank to be BBMRI Quality Label in the BBMRI-ERIC Directory

The auditors recommend that the biobank addresses all critical non-compliances (CNC) and submit evidence of improvement to the auditors for further review. In case of a positive assessment, an addendum to the audit report will be submitted to BBMRI-ERIC by the auditors.

Auditor statement¹⁾:

Place:
 Date:
 Name:
 Signature:

¹⁾ During the closing meeting, the biobank was informed about the preliminary result of the audit outcome based on the appropriate (C, NNC, CNC)
²⁾ E.g.: The auditors can confirm that the biobank has established a biobanking management system in accordance with the principles of ISO 20387:2018 and is carrying out its work processes in accordance with the international biobanking standard. This statement must be written and signed personally by the auditor.

Closing discussion between auditors and BBMRI-ERIC QM

The completed audit report is sent to BBMRI-ERIC QM by the auditors. A closing discussion on the audit process and the observations is conducted by the auditors and BBMRI-ERIC QM. BBMRI-ERIC QM will award the BBMRI Quality Label in the BBMRI-ERIC Directory based on the recommendation of the auditors, the review of the documents and the closing discussion.

Completion of the audit process by BBMRI-ERIC Quality Management at Headquarters

BBMRI-ERIC QM statement¹⁾:

Place:
 Date:
 Name:
 Signature:

¹⁾ This statement was written and signed personally by the BBMRI-ERIC Head of QM.

THE
WORLD'S

BIGGEST

BIOBANK DIRECTORY



MAKING NEW TREATMENTS POSSIBLE

BBMRI-ERIC is a European research infrastructure for biobanking. We bring together all the main players from the biobanking field – researchers, biobankers, industry, and patients – to boost biomedical research. To that end, we offer quality management services, support with ethical, legal and societal issues, and a number of online tools and software solutions. Ultimately, our goal is to make new treatments possible.

CERTIFICATE

for the management system according to ISO 20387:2018

BBMRI-ERIC hereby confirms that, as a result of the internal audit,
Biobank Väst, Sahlgrenska Universitetssjukhuset, 413 45 Göteborg



Biobank Väst

VÄSTRA GÖTALANDSREGIONEN OCH GÖTEBORGS UNIVERSITET

has established and operates a management system in accordance
with the requirements of ISO 20387:2018.

Certificate ID: QMS/Quality Label/003
Date issued: 12 September 2022

Valid until: version change of ISO 20387:2018

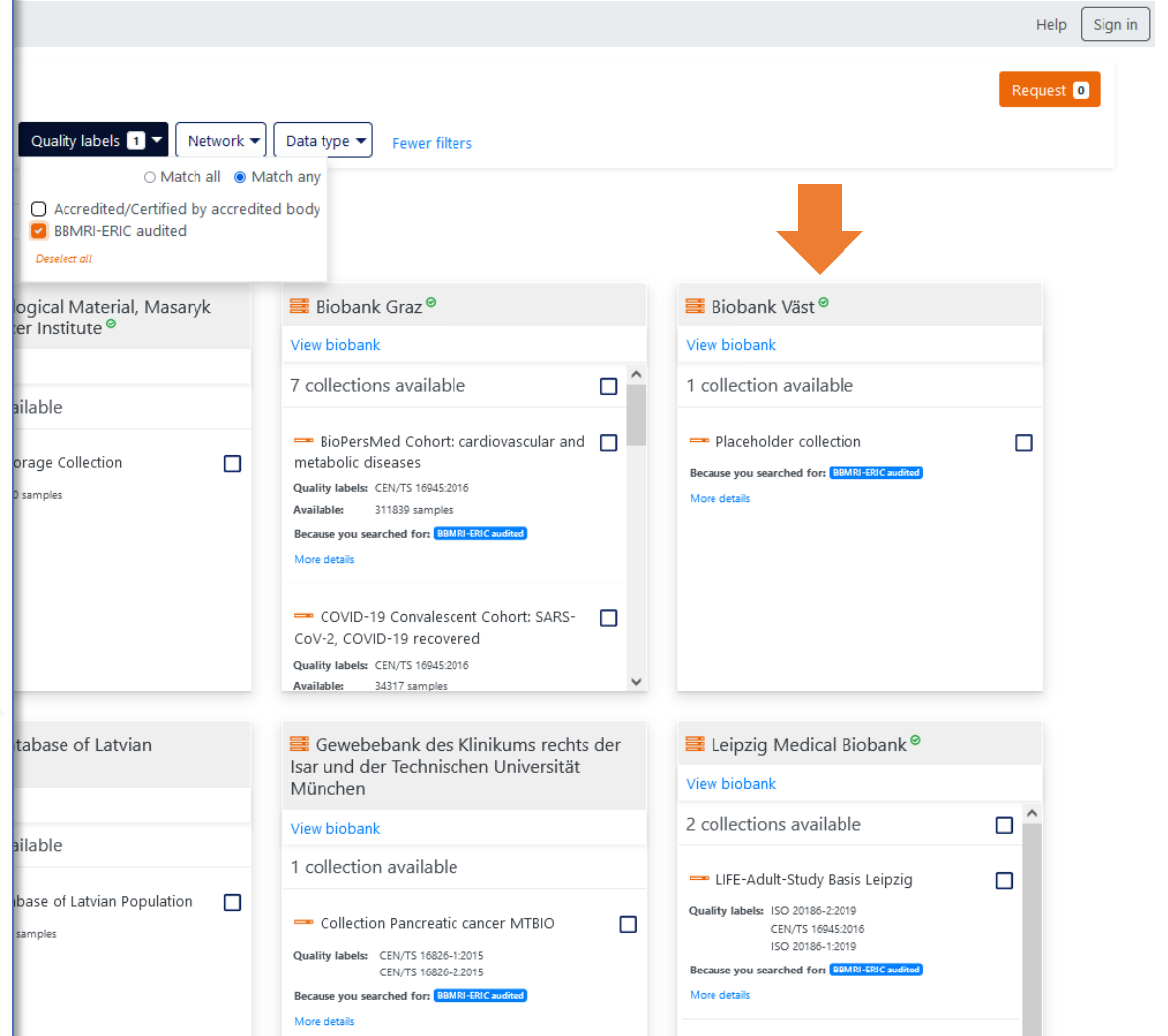


Prof. Jens Habermann, M.D., Ph.D.
Director General



Andrea Wutte, M.Sc.
Head of Quality Management

Y



Help Sign in

Request 0

Quality labels 1 Network Data type Fewer filters

Match all Match any

Accredited/Certified by accredited body
 BBMRI-ERIC audited
[Deselect all](#)

Biobank Väst

View biobank

1 collection available

Placeholder collection

Because you searched for: **BBMRI-ERIC audited**
[More details](#)

Biobank Graz

View biobank

7 collections available

BioPersMed Cohort: cardiovascular and metabolic diseases

Quality labels: CEN/TS 16945:2016
Available: 311839 samples
Because you searched for: **BBMRI-ERIC audited**
[More details](#)

COVID-19 Convalescent Cohort: SARS-CoV-2, COVID-19 recovered

Quality labels: CEN/TS 16945:2016
Available: 34317 samples

Gewebebank des Klinikums rechts der Isar und der Technischen Universität München

View biobank

1 collection available

Collection Pancreatic cancer MTBIO

Quality labels: CEN/TS 16826-1:2015
CEN/TS 16826-2:2015
Because you searched for: **BBMRI-ERIC audited**
[More details](#)

Leipzig Medical Biobank

View biobank

2 collections available

LIFE-Adult-Study Basis Leipzig

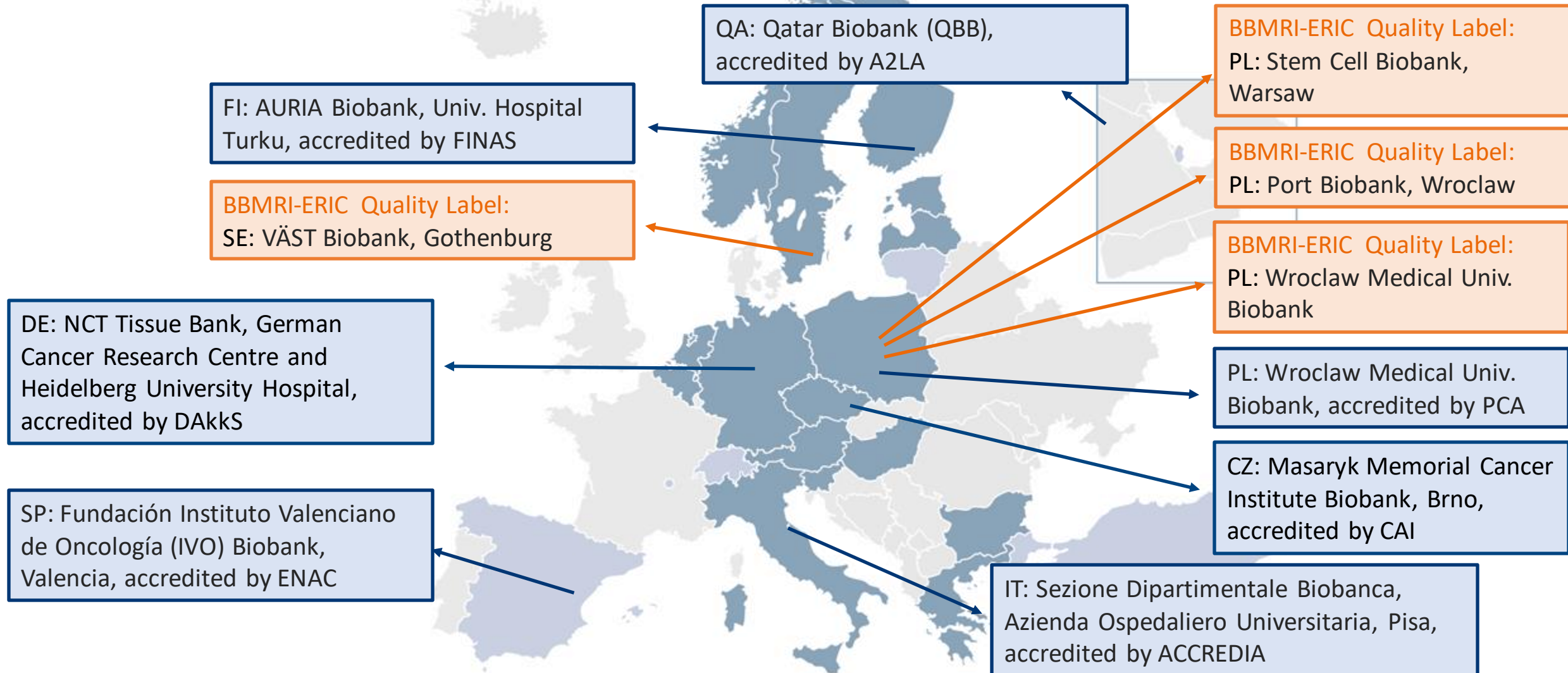
Quality labels: ISO 20186-2:2019
CEN/TS 16945:2016
ISO 20186-1:2019
Because you searched for: **BBMRI-ERIC audited**
[More details](#)



<https://directory.bbmri-eric.eu>

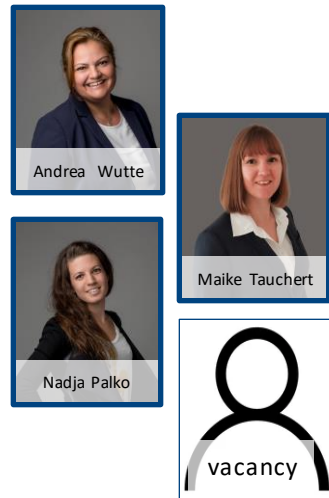
ISO 20387 BBMRI-ERIC AUDITED / QUALITY LABELED BIOBANKS

ISO 20387 ACCREDITED BIOBANKS

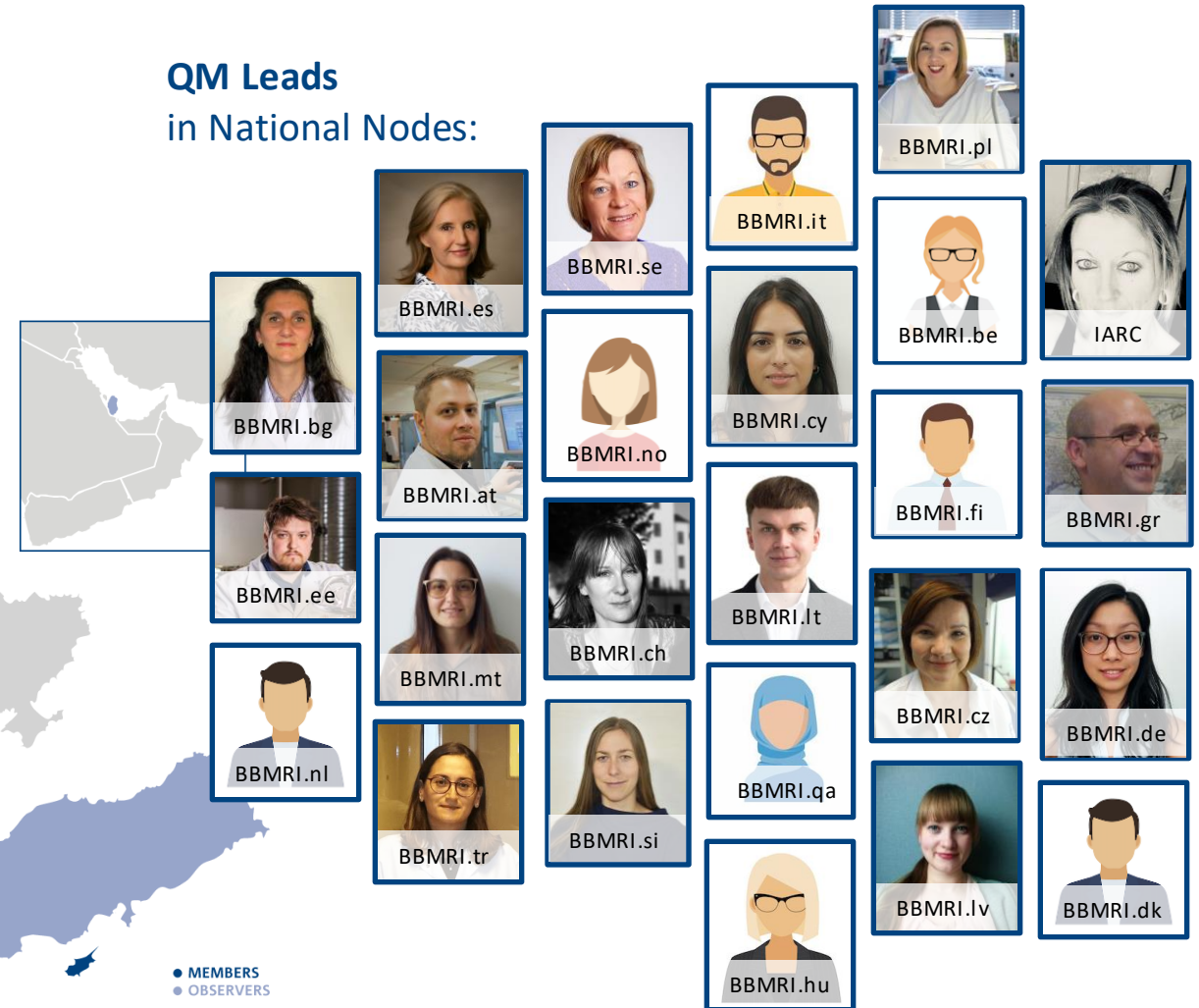


BBMRI-ERIC QUALITY MANAGEMENT TEAM (BBMRI.QM)

Quality Management Team at Headquarters:



QM Leads in National Nodes:



> 210 QM representatives in the countries

Trust Quality Experience Knowledge

Issue No. 6/2017

**TWO SIDES OF
THE SAME COIN**

Page 16-17

Prof. Kurt Zatloukal
National Node Director BBMRI.at
Medical University of Graz

**STANDARDISATION
IS KEY**

Page 10-15

Dr. Uwe Oelmüller
Vice President MDx Development
QIAGEN GmbH

**QUALITY ASPECTS
IN ADOPT BBMRI-ERIC**

Page 18-19

Prof. Marialuisa Lavitrano
National Node Director BBMRI.it
University of Milano-Bicocca

ご清聴ありがとうございました。
THANK YOU FOR YOUR ATTENTION



contact@bbmri-eric.eu



www.bbmri-eric.eu



#BBMRI_QM
@BBMRIERIC



Co-funded by multiple Horizon and IHI projects