

Comparison Chart of Guidelines

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For each guideline, the table addresses biobanking development steps in either of the following three detail levels:

- mentioned, or
- guidelines (detailed enough to dress a protocol/ model), or
- protocols/ model (ready to be followed, to be used)

Author(s)/organization	OECD	ISBER	IARC, WHO	NCI, NIH, HHS	ABN	EHRM	RAND	INSERM, AFNOR	
Publication date	2007	2008	2007	2007	2007	2002	2003	2008	
Title	OECD Best practices guidelines for Biological Resource Centres	Best Practices for Repositories I: Collection, Storage and Retrieval of Human Biological Materials for Research	Common Minimum Technical Standards and Protocols for Biological Resources Centres Dedicated to Cancer Research	National Cancer Institute Best Practices for Biospecimen Resources	Australasian Biospecimen Network Biorepository Protocols	European Health Risk Monitoring (EHRM) Recommendation for indicators, international collaboration, protocol and manual of operations for chronic disease risk factor surveys	Case Studies of Existing Human Tissue Repositories "Best Practices" for a Biospecimen, Resource for the Genomic and Proteomic Era	Management system of a BRC and quality of biological resources from human or micro-organism origin	
Country	International (28 countries)	International Forum based in United States	Worldwide Directors of National Cancer Centres	United States	Australia	Finland	United States	France	
URL	http://www.oecd.org/home/0,2987,en	http://www.isber.org	http://www.iarc.fr/ http://www.who.int/en/	http://www.cancer.gov/ http://www.nih.gov/ http://www.hhs.gov/	http://www.abrn.net/	http://www.ktl.fi/ehrm/	http://www.rand.org/scitech/stpi/	http://www.inserm.fr/en/home.html http://www.afnor.org/en	
Document link	http://www.oecd.org/dataoecd/7/13/38777417.pdf	http://www.isber.org/Pubs/BestPractices2008.pdf	http://www.p3gobservatory.org/download/IARC2007.pdf	http://biospecimens.cancer.gov/global/pdfs/NCI_Best_Practices_060507.pdf	http://www.p3gobservatory.org/download/sop/ABNSOPsMarch2007.pdf	http://www.ktl.fi/publications/ehrm/product2/product2.pdf	http://www.p3gobservatory.org/download/RAND.pdf	http://www.p3gobservatory.org/download/projet+norme+Biobanque+Eng.pdf	
Sample type(s)	Wide: human, animal and plant, and micro-organism	Human: blood, urine, tissues, nails, saliva, breast milk, etc	Human: blood (plasma, serum, white blood cells), buffy coat, urine, buccal cells, saliva, bronchoalveolar lavage, bone marrow aspirate, fine needle aspirate, cerebrospinal fluid, semen, cervical and urethral swabs, hair, nail	Human : blood and solid tissue mentioned but not extensively	Human: blood (serum, plasma, white blood cells, buffy coat), urine, buccal cells, bone marrow	Human: blood	Human: blood, serum, tumor, tissues	wide: human	
Steps/ areas covered	Infrastructure/ Apparatus	guidelines (appartus maintenance)	protocols (ventilation, temperature, lighting etc..)	protocols (temperature for devices)		guidelines		guidelines	
	Biosafety	guidelines	guidelines	guidelines		guidelines			
	Staff training	guidelines	guidelines (emergency)	mentioned	guidelines			guidelines	
	Ethics	guidelines	guidelines (privacy rules, consent form, IRB)	mentioned	guidelines (consent form, privacy protection)	Model (consent form)	guidelines	guidelines	
	Intellectual Property			mentioned	guidelines			guidelines	
	Clinical Data Management			protocols	guidelines	guidelines	model of questionnaire, protocols for anthropometric measures		
	Sample Traceability/ Labelling	mentioned	guidelines	guidelines	guidelines		guidelines	guidelines	
	Sample type choice		discussion (advantage-inconvenient balance)	discussion (advantage-inconvenient balance)	discussion (advantage-inconvenient balance)	discussion (advantage-inconvenient balance)			
	Sample Collection and Processing	mentioned	guidelines (sample type-dependent)	protocols (sample type-dependent)	guidelines	protocols (sample type-dependent)	protocols	guidelines	mentioned
	Sample-derived data management	guidelines (minimum and recommended data set: MDS and RDS)	guidelines	guidelines (minimum information)	guidelines		guidelines	guidelines	guidelines
	Sample Storage	guidelines (sample type-dependent)	guidelines (aliquoting, sample type-dependent)	protocols (sample type-dependent)	guidelines	protocols (sample type-dependent)	protocols	guidelines	mentioned
	Quality Control	guidelines (methods validation; sample quality)	protocols (for all SOPs)	guidelines	guidelines	guidelines (materials and sample type-dependent), protocols (RNA)	guidelines	guidelines	protocols (on all topics)
	Transportation/ shipping	mentioned	guidelines	protocols	guidelines	guidelines (sample type-dependent)			mentioned
Funds/ Sustainability	mentioned		mentioned				guidelines		
Access to data/ Transfert	mentioned	guidelines	guidelines	Model (material transfert agreement)	guidelines	guidelines	guidelines	guidelines	
Informatics support	guidelines	mentioned (security)	mentioned	guidelines (caBIG system)			guidelines	guidelines	

	Other	Recapitulative tables on requirement for each topics (sample type-dependent): maintenance, storage, ethics etc...	Sources websites for every topics (biosafety, shipping, processing protocols etc...)	table mentioning 16 other biorepository guidelines (ISBER, ABN, OECD, NCI, WHO, RAND, etc...)		protocols for RNA and genomic DNA isolation and stable cell lines generation Laboratory suppliers suggestion (for reagent and apparatus) Suggestion of the sample future use depending on the sample type	Useful guidelines to build a study/biobank: Indicators for risk factors that could be used for background, Sample size discussion, target population, recruitment procedures, duration of surveys, questionnaire administration etc...	Evaluation and comparison of tissues and processes from 12 tissue repositories in USA, Comparison table for all 12 biobanks	Table that lists of all documents required to assess good quality at each step Table comparing ISO 9001/2000 norms and BRC standards
Certification-orientated?		Yes (3 phases)						RAND evaluation	Yes ISO 9001