

1. Record Nr.	UNINA9910552747603321
Titolo	Biobanks in Low- and Middle-Income Countries: Relevance, Setup and Management // edited by Karine Sargsyan, Berthold Huppertz, Svetlana Gramatiuk
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-87637-3
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (234 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	570.752 362.1783
Soggetti	Biotechnology Biomaterials Biology - Technique Biological Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to Biobanking -- Scientific Relevance, Problems and the Destitution for Principles of Biobanks and Biobanking Activities -- Types of Biobanks -- Ethical and Legal Principles in the Field of Biobanking -- Business Planning for Biobanks -- Biobanking Concepts Specific for Developing Countries -- Methods of Implementation and Set-up of National Biobanking Networks -- Implementation of Ethical and Legal Considerations in a Biobanking Network -- Collection and Management of Samples -- Quality Control and Risk Management in Biobanks -- Governance and Stakeholder Analysis -- Biobanking IT Systems, Database Structure and Web Applications -- Management Model and Sustainability Plan of Biobanks -- Sustainability Plan and Project Management of a Biobanking Network -- Establishing a Biobank Using Standardisation -- Science and Innovation of Biobanks -- Running a Biobank Network -- Infrastructure: Delivering on the Promise of Biobanking -- Design Considerations and Equipment of Biobanks -- Software Toolsfor Biobanking in LMICs -- The Importance of Cancer Biobanks in Low- and Middle-Income Countries -- Biobanking in Paediatrics: A Look from Armenia as a Middle-Income Country --

Biobanking of the Central Nervous System -- The Importance of Biobanking COVID-19 Samples -- Oncobiobanking in a Middle-Income Country: The Example of Russia -- Sustainability of Biobanks and Biobanking in LMICs -- Biobanks for Enabling Research and Development by Trusted Patient Data Environment -- Future Perspective of the Biobanking Field.

Sommario/riassunto

This book introduces the fundamentals of biobanking and guides through the practical planning thereof, with a special focus on the situation in low- and middle-income countries. On the example of the setup of a Ukrainian biobank the book discusses the main steps and aspects of successful biorepository implementation and management. Topics covered include collection, storage and shipping of samples, establishment of an IT system, development of a sustainability plan, and project and risk management. Furthermore, the importance of the formation of international biobanking societies such as the Ukraine Association of Biobanks is highlighted, and their main objectives and tasks are discussed. The book addresses life science and business professionals as well as national authorities who are interested in biobanking in general and in setting up a biobank in particular.
