

Special Issue

Biobanking: The Blueprint of Future Biomedicine

Message from the Guest Editor

Biobanks have become foundational infrastructure for modern biomedical research, enabling the systematic collection, processing, storage, and distribution of biological specimens and associated data that drive advances in genomics, precision medicine, and translational science. As biomedical research increasingly depends on large-scale, high-quality biospecimen resources, biobanks are evolving from passive repositories into dynamic platforms that support multi-omics investigations, clinical trials, and population-based research initiatives. In this data-driven era, the ability to link high-quality biospecimens with robust clinical and molecular data will be central to the next generation of discovery. Despite these advances, significant challenges remain. Ensuring biospecimen quality and standardization, integrating specimens with complex data ecosystems, navigating ethical and regulatory considerations, and developing sustainable operational models remain key priorities for the field.

Guest Editor

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