

Do storage conditions prior to fixation of archived tissues can influence the quantity and quality of extracted accessible chromatin?

Gaining a comprehensive understanding of the effects of storage conditions on FFPE tissues holds the potential to establish optimized protocols that ensure the preservation of chromatin integrity. Such protocols are essential for preserving the quality and reliability of archival samples.

Results

- Accessible chromatin was extracted from formalin fixed paraffin embedded (FFPE) tissues.
- Quantity and quality of extracted chromatin varies across different organs.
- The protocol requires further optimization for improved results.
- We can not yet conclude how tissue storage conditions prior to fixation affects the quality of extracted chromatin.

Nanodroplet technology can extract accessible chromatin from archived tissue, providing a foundation for analyzing unique chromatin accessibility patterns in each tissue type. This research advances the field of epigenetics by expanding the types of samples that can be used to study chromatin accessibility.