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A clinically annotated post-mortem platform to study multi-organ somatic mutational clonality in histologically healthy tissues

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Introduction

Most adult healthy tissues consist of micro- and macroscopic clones carrying mutations in known cancer driver genes (e.g., TP53 & NOTCH1). However, the limited availability of healthy tissue samples has proven problematic. Post-mortem tissues from wholebody donors could provide a nearly unlimited and clinically annotated tissue resource for future studies.



Aim:

To develop and validate a methodology to detect mutational (micro-)clonality in postmortem tissues. When successful, this method will enable in-depth research on the impact of various internal and external clinical variables (e.g., smoking, radiotherapy,...) on mutational clonality in a pan-organ (multiple organs sampled from one patient) setting.



*ES: Epidermal Skin







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