# A clinically annotated post-mortem platform to study multi-organ somatic mutational clonality in histologically healthy tissues <br> Tom Luijts, Kerryn Elliott, Joachim Siaw, Joris Van de Velde, Elien Beyls, Arne Claeys, Erik Larsson, Wouter Willaert, Anne Vral, Jimmy Van den Eynden 



## Results

A. Somatic mutations are detectable in post-mortem tissues


B. Genomic alterations in epidermal skin show UV-specific patterns

C. Clonality in epidermal skin and oral mucosa is primarily driven by NOTCH1 and TP53


## Conclusion

A. We show that mutational clonality is detectable in post-mortem tissues.
B. Expected UV-specific mutation patterns are recovered from the somatic mutations in post-mortem tissue.
C. In concordance with previous studies, clonal expansion is mainly driven by driver genes TP53, NOTCH1 and FAT1.
The promising results of this proof of concept imply that our methodology is ready for upscaling towards larger cohorts in a panorgan setting.

