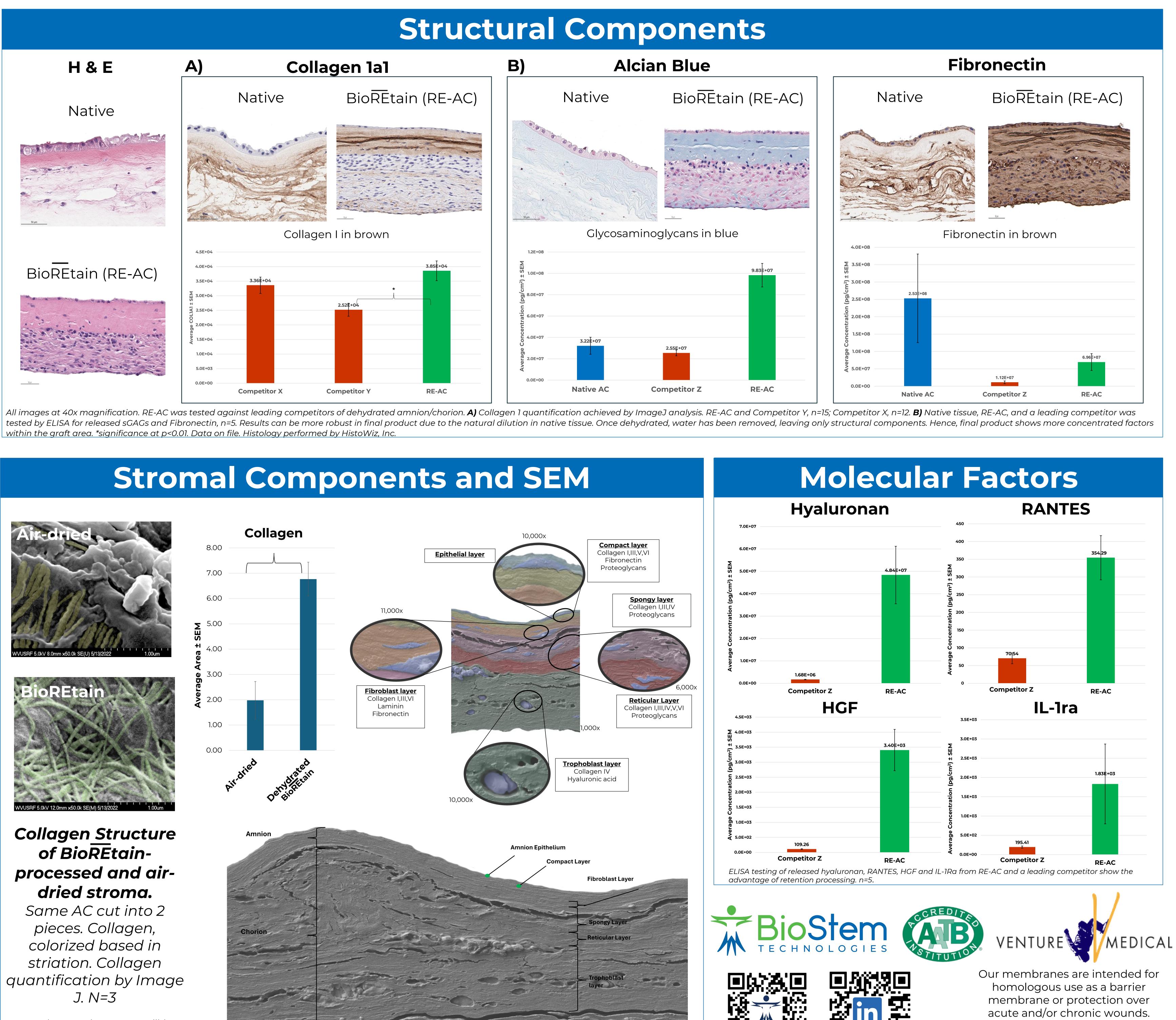
Preservation of Fundamental Molecular and Stromal Components via Retention Processing* Toni-Ann M Martorano, MS¹, Christian A Van Vurst, CTBS¹, Wendy W Weston, PhD, CTBS¹

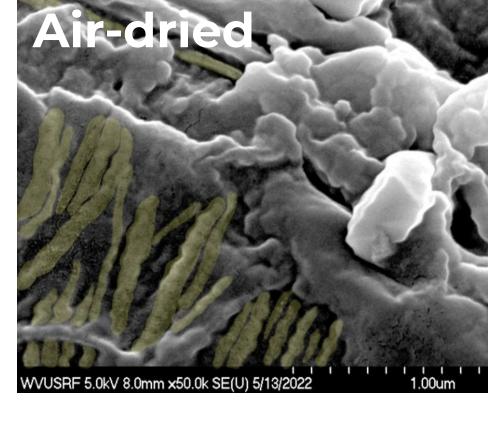
Abstract

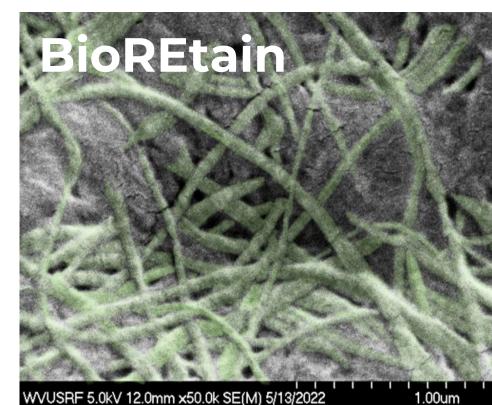
cytokines, Growth factors, chemokines are elements key associated with wound treatment Placental membrane modalities. grafts are used as wound coverings providing an optimal wound environment. Previous techniques for producing these grafts show a loss in these beneficial properties primarily focusing on removal of nonsolid matrix components. In an effort to retain as much of the natural matrix as possible and to preserve the beneficial factors, a retentionmethod developed Was based (BioREtain®), utilizing processing. We tested the impact of this processing regime on stromal molecular content. and obtained from this study show the retention of structure as well as the preservation of numerous factors in RE-AC placental tissue grafts. It also shows the retention of components compared to the native tissue.

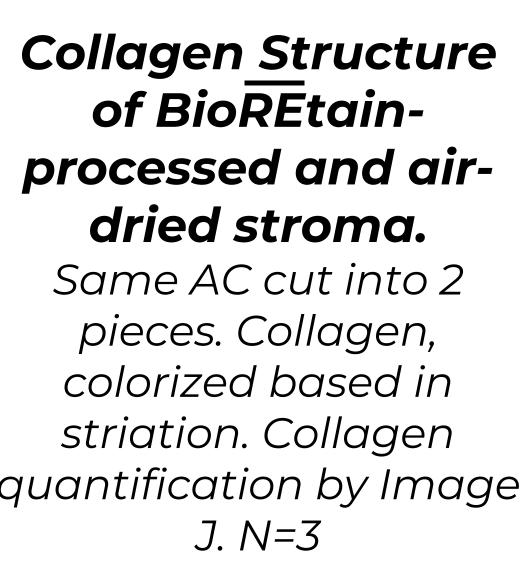
The BioREtain® Process

- **1. Minimally damaging, yet effective** disinfection.
- 2. Hand removal of blood/debris.
- **3. Cold isotonic cleansing.**
- 4. Gentle dehydration.
- **5. Low-dose Electron beam sterilization.**

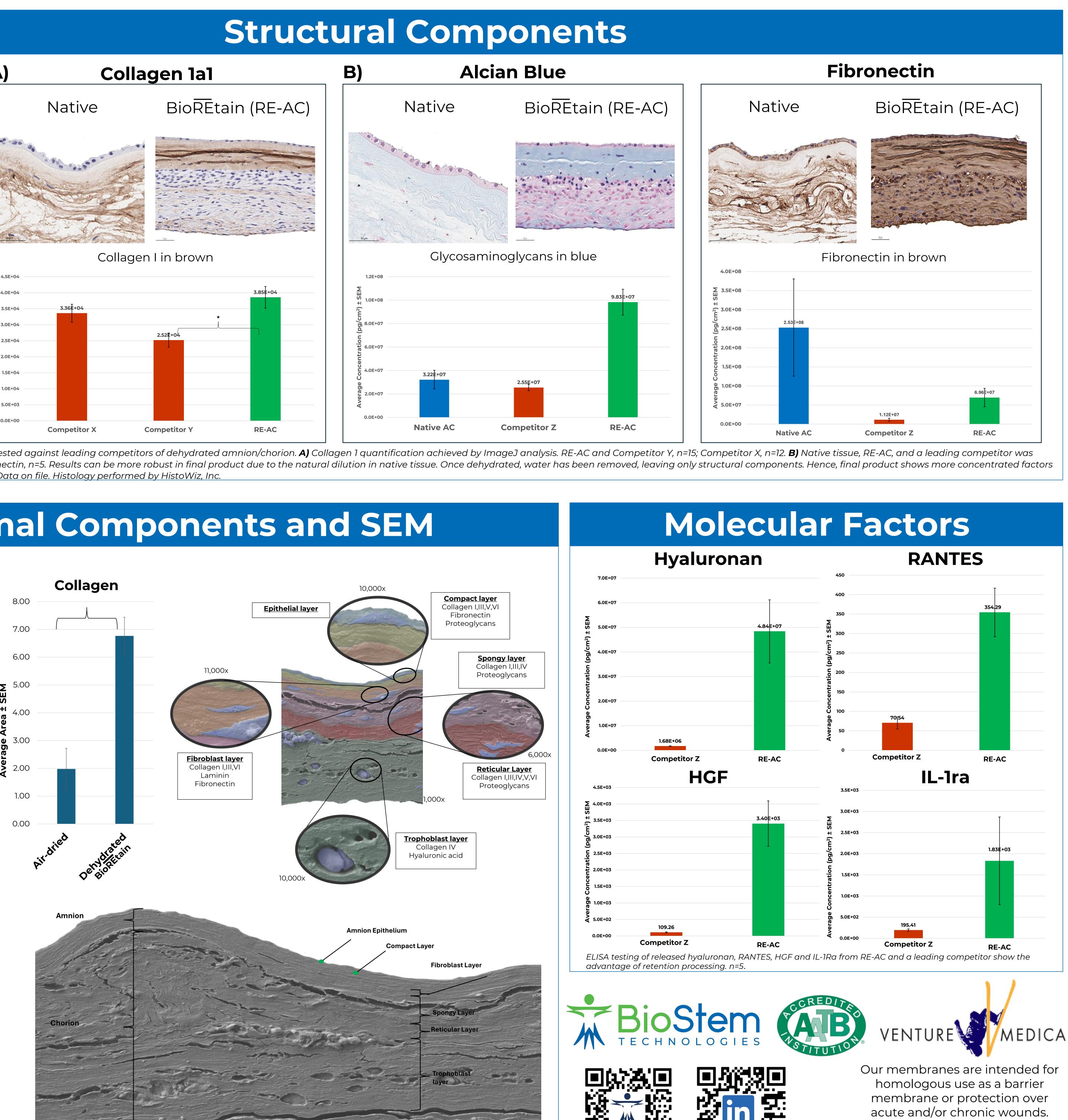


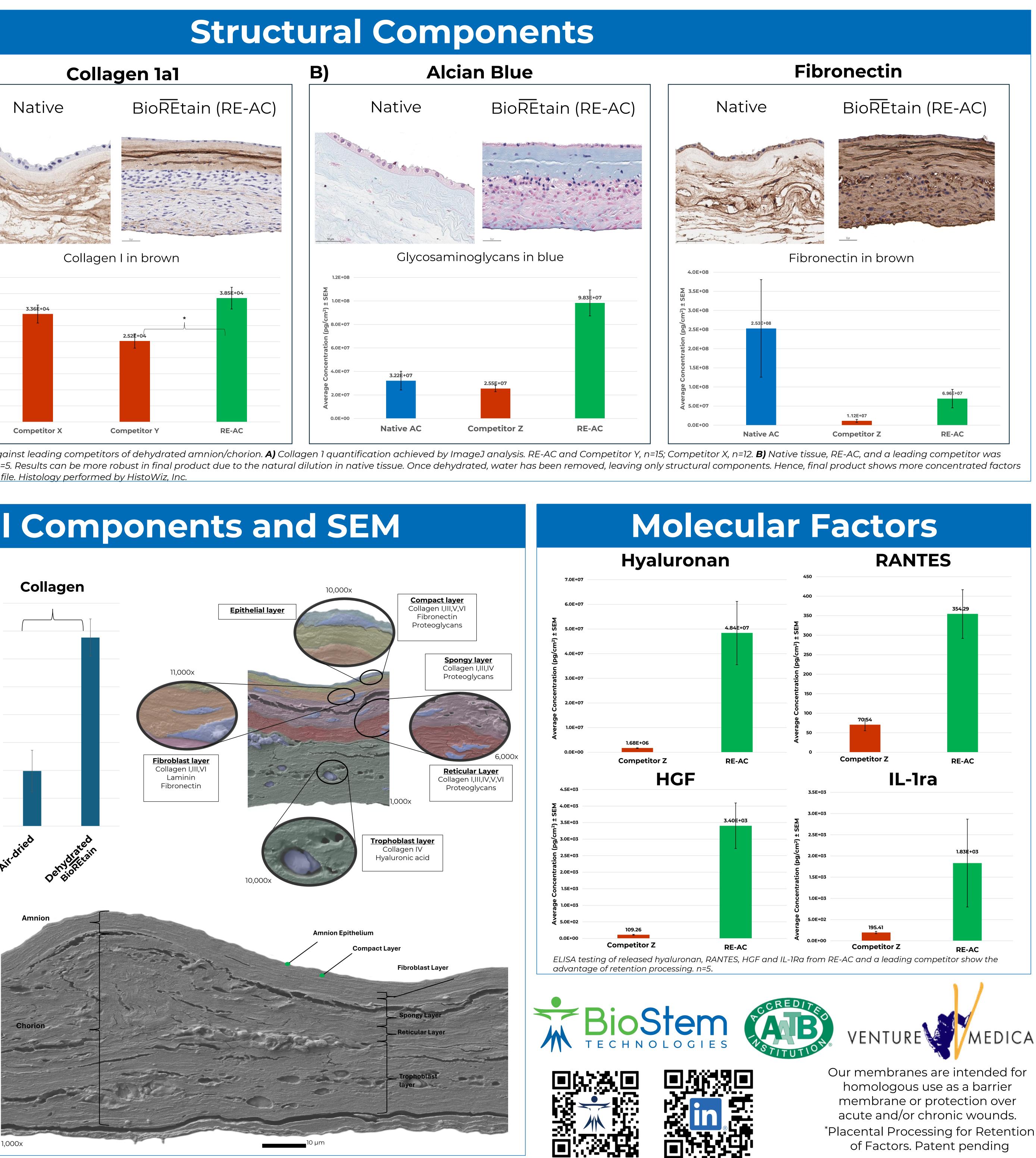






WVU Electron Microscopy Facilities, Marcela Redigolo, PhD.





¹ BioStem Technologies, Inc.

*Placental Processing for Retention of Factors. Patent pending