ANIMAL HISTOLOGY STUDY EVALUATING HYALURONIC ACID PRODUCTION

INCREASED LEVELS OF HYALURONIC ACID IN SKIN AFTER MONOPOLAR RADIOFREQUENCY AND TUS TREATMENT: PORCINE ANIMAL STUDY

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Highlights

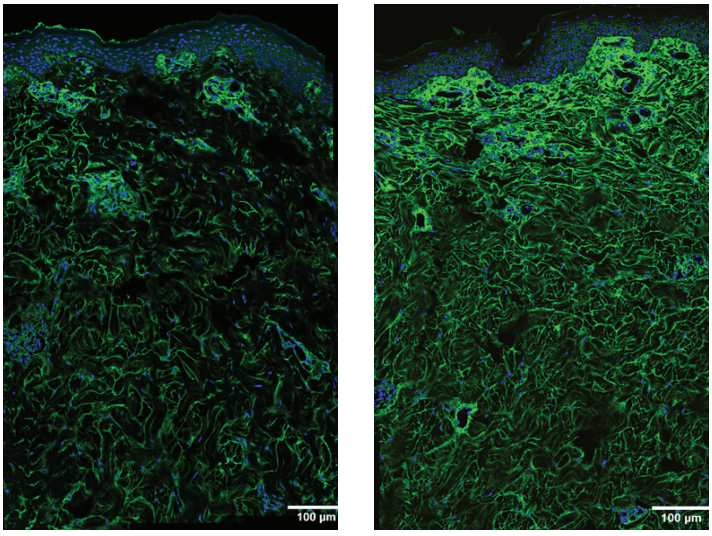
- 12 swines had four treatments of 30 minutes on each side of the abdomen
  - 6 treated by **RF + Targeted Ultrasound (TUS)**
  - 6 treated by **RF + Non-Targeted Ultrasound**
- 252 samples collected and analyzed using three different evaluation methods **(PCR, MALDI-TOF, and Confocal Microscopy)**
- Study shows that the use of **Targeted Ultrasound is essential** for stimulating the **HA production**, whereas the **RF+US** had **no significant effect**

RF+TUS Group

224% MORE HYALURONIC ACID

RF+Non-Targeted Ultrasound

NO SIGNIFICANT CHANGE IN HA



Confocal microscopy images show that at the 2-month follow-up, the network in the dermis of the RF+TUS group appears denser with more green fibers compared to its baseline on the left.