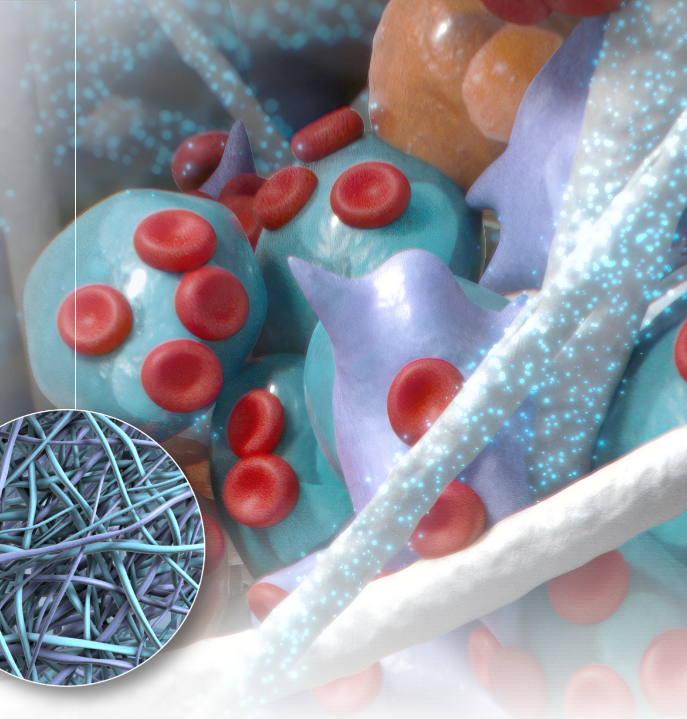


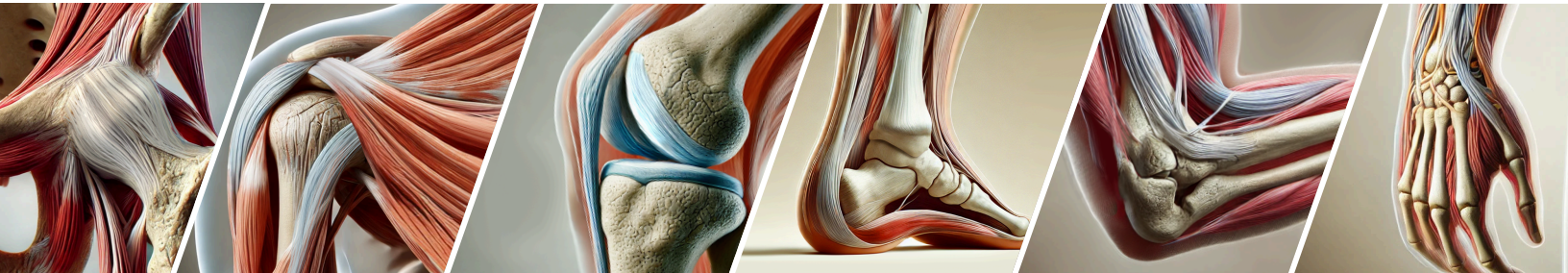
ROTIIUM®

Bioresorbable Wick

ROTIIUM® is a bioinductive scaffold designed to enhance the biologic environment, supporting the healing cascade, remodeling healthy tissue, and improving long-term outcomes across a range of tendon repairs.



AUTOBIOLOGIC™ SCAFFOLDS: POWERING THE HEALING RESPONSE



HIP

Gluteus Maximus/
Minimus
Hamstring

SHOULDER

Rotator cuff
Subscapularis
Biceps

KNEE

ACL Reconstruction
ACL Repair
Extensor Mechanism
Autograft harvest sites

FOOT & ANKLE

Achilles tendon (Haglund's
or Mids substance)
Kidner procedure
Peroneal tendon
FHL transfer

ELBOW

UCL
Triceps repair
Distal biceps

HAND

Flexor tendons
Extensor tendons

ROTIIUM BIORESORBABLE WICK FEATURES



SYNTHETIC & BIORESORBABLE

PGA: Poly Glycolic Acid
PLCL: Poly Lactide co-Caprolactone
3-4 Month Biphasic Resorption



EASILY WRAPPED & SUTURED

Adaptable sizing
85% Porosity
Thickness: 0.85mm and 0.45mm



OPTIMIZED HANDLING

Robust, synthetic scaffold that wicks biology at the repair site.



DATA-DRIVEN TECHNOLOGY

Backed by published scientific and clinical data.



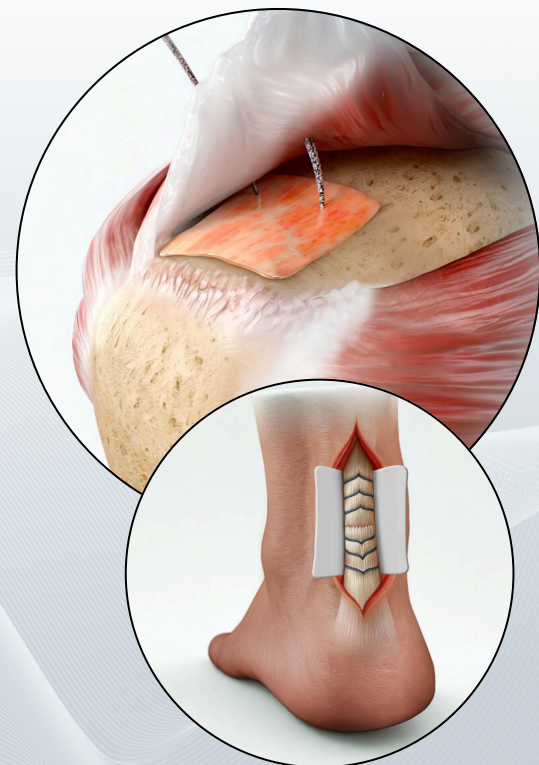
SAFE & EFFECTIVE

Implanted in 20K+ tendon repair surgeries.



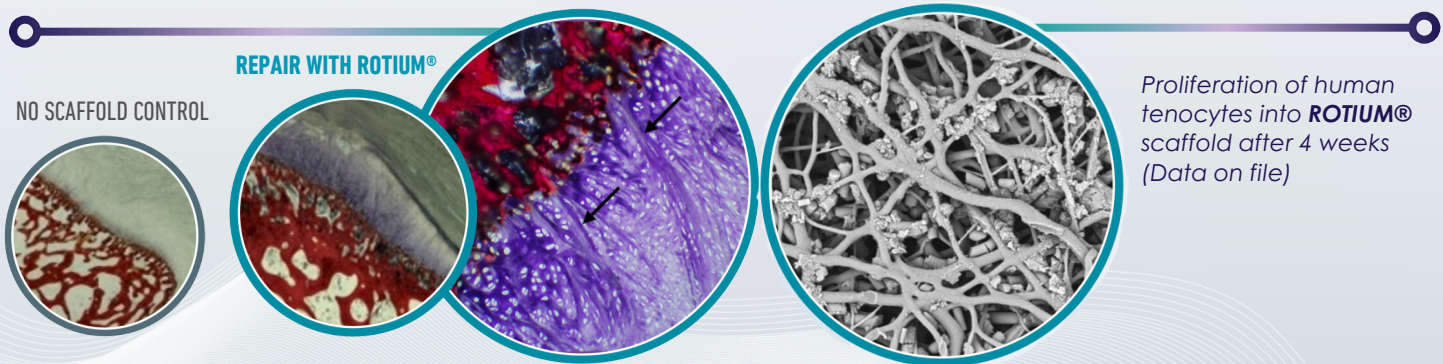
SMART ECONOMICS

No additional instrumentation or fixation



SUPPORTED BY SCIENTIFIC AND CLINICAL DATA

Mimics native ECM: Promotes Healing Through Cellular Proliferation and Integration



Development of Sharpey's like fibers at the tendon-bone interface using an interpositional nanofiber scaffold. Sheep CSU Study (JSES, 2022), Winner of the 2023 Neviaser Award for Basic Science by ASES & JSES.

CONFIDENCE IN SYNTHETICS*

ROTIUM's biphasic resorption supercharges tendon healing by promoting cellular interactions to drive tissue remodeling. Organic acid polymer contributions:

GLYCOLIC ACID

- Anti-Inflammatory properties
- Increases fibroblast proliferation & production of collagen & HA

LACTIC ACID

- Modulates inflammation & accelerates cellular migration
- Promotes ECM deposition & reparative angiogenesis

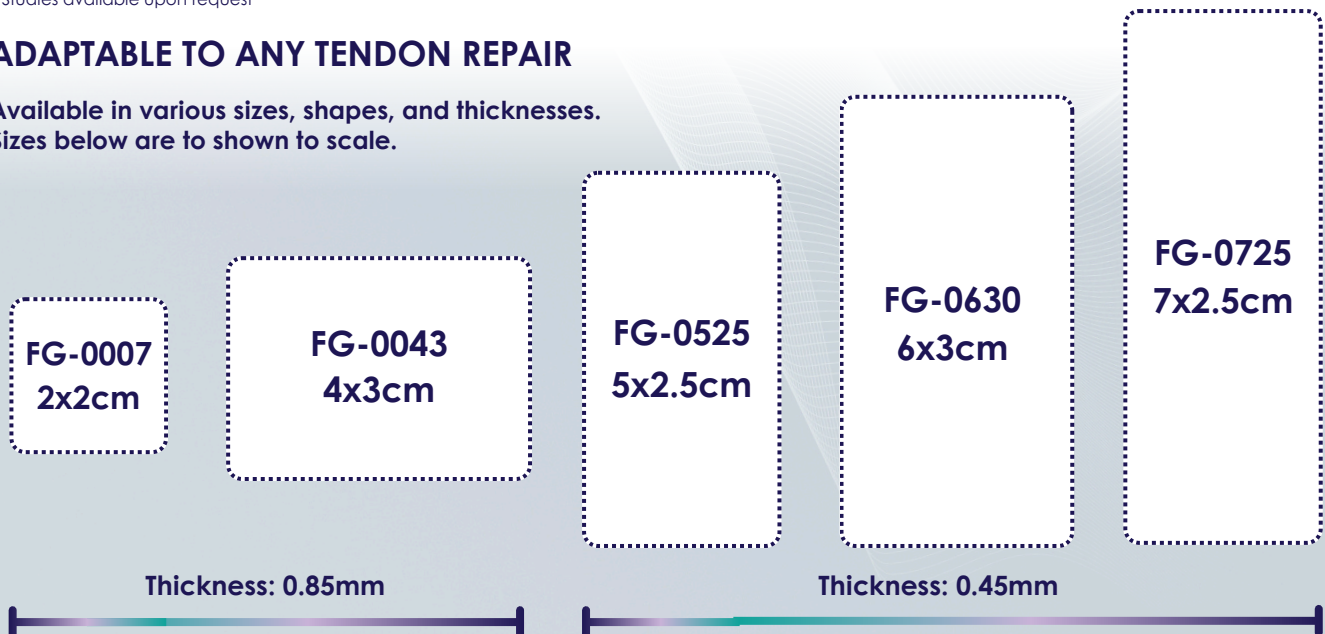
CAPROIC ACID

- Anti-microbial properties
- Anti-inflammatory properties

*Studies available upon request

ADAPTABLE TO ANY TENDON REPAIR

Available in various sizes, shapes, and thicknesses. Sizes below are to shown to scale.



Beleckas, C. M., Bishai, S.K., & Badman, B. L. (2021). Rotator Cuff Repair Augmented with Interpositional Nanofiber Scaffold. Arthroscopy Techniques. <https://doi.org/10.1016/j.eats.2022.08.061>

Beleckas, C. M., Minetos, P., & Badman, B. L. (2023). Short-term radiographic and clinical outcomes of arthroscopic rotator cuff repair with and without augmentation with an interpositional nanofiber scaffold. Journal of Orthopaedic Experience & Innovation. <https://doi.org/10.60118/001c.84269>

Romeo, A., Easley, J., Regan, D., Hackett, E., Johnson, J., Johnson, J., Puttitz, C., & McGilvray, K. (2022). Rotator cuff repair using a bioresorbable nanofiber interposition scaffold: A biomechanical and histologic analysis in sheep. Journal of Shoulder and Elbow Surgery, 31(2), 402–412. <https://doi.org/10.1016/j.jse.2021.07.018>

Seetharam A, Abad J, Baessler A, Badman BL. Use of a Nanofiber Resorbable Scaffold During Rotator Cuff Repair: Surgical Technique and Results After Repair of Small- to Medium-Sized Tears. Orthop J Sports Med. 2022 May 13;10(5):23259671221094848. doi: 10.1177/23259671221094848. PMID: 35601733; PMCID: PMC9118444.

◇ All claims supported by data on file § References available upon request

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View U.S. patent information at <https://nanofibersolutions.com/technology/>

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