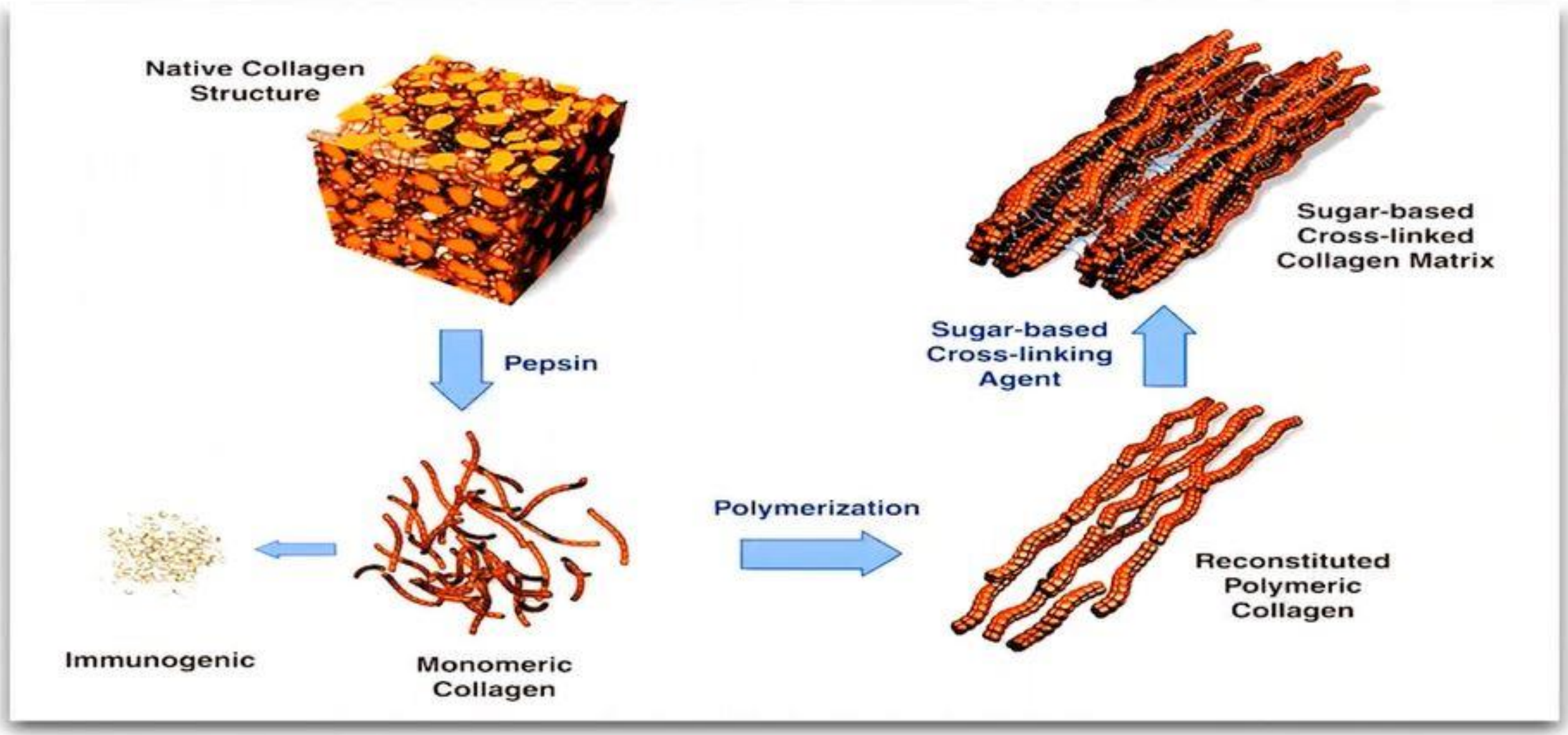
# OSSIX®
# Family of Regenerative Solutions
## Product & Technology overview, FAQs, Tips & Tricks

Professionals for Professionals

MKT-1003-01

# GLYMATRIX® Technology



# The OSSIX Expanding Regenerative Line

## Addressing current market deficiencies and future needs

**OSSIX® PLUS**

Ossifying Collagen Barrier **Membrane**

**OSSIX® VOLUMAX**

Volumizing, Ossifying Collagen **Scaffold**

**OSSIX™ Bone**

Mineralized Collagen **Sponge**

Expanding OSSIX Product Line

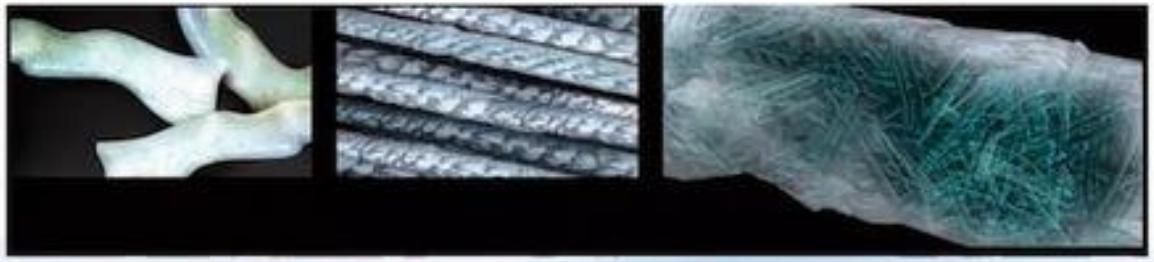
Powered by the Glymatrix® Technology

# GLYMATRIX® Technology – Continued

- **GLYMATRIX technology**
  - **Mimics the natural collagen cycle** in our body by utilizing a naturally occurring nontoxic sugar as the cross-linking agent
  - **Bioprogrammable** for specifically engineering long-lasting biomaterials with enhanced stability and properties for OSSIX® products
- **All OSSIX products are manufactured in-house**

  in Datum Dental's cleanroom -- from source material (porcine tendons) to final product (highly biocompatible and safe)

Source: https://vimeo.com/178250973

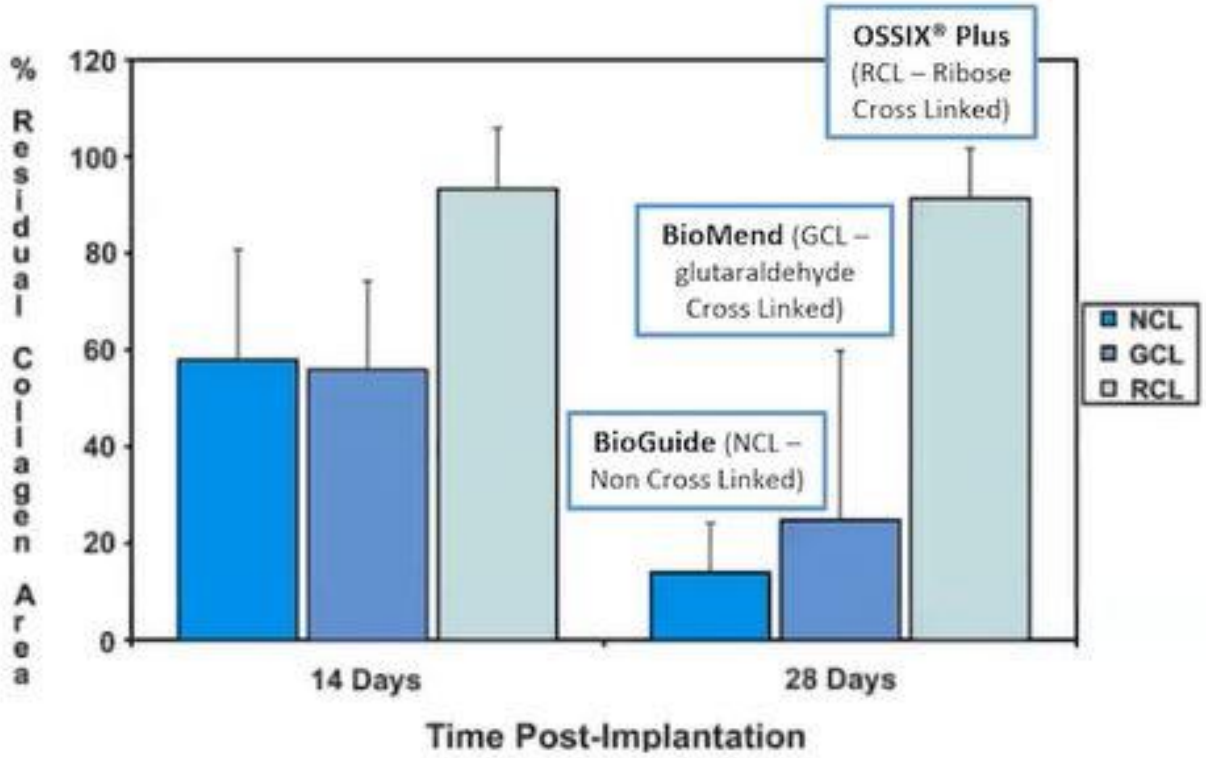


# OSSIX Plus – Main Features & Benefits

- **Long-term barrier effect** (4-6 months)
- **Resistant to degradation** when **exposed** (3-5 weeks)
- **The only ossifying membrane** on the market
- **Clinically proven** core technology
- **Predictable, long-term results**
- **Easy to use –** though different handling than other collagen membranes


# Barrier Effect - Data


PubMed PMID: 8454670




**At 4 weeks:**

**Other collagen membranes are only 20%-30% residual membrane**

**OSSIX PLUS is >95%**

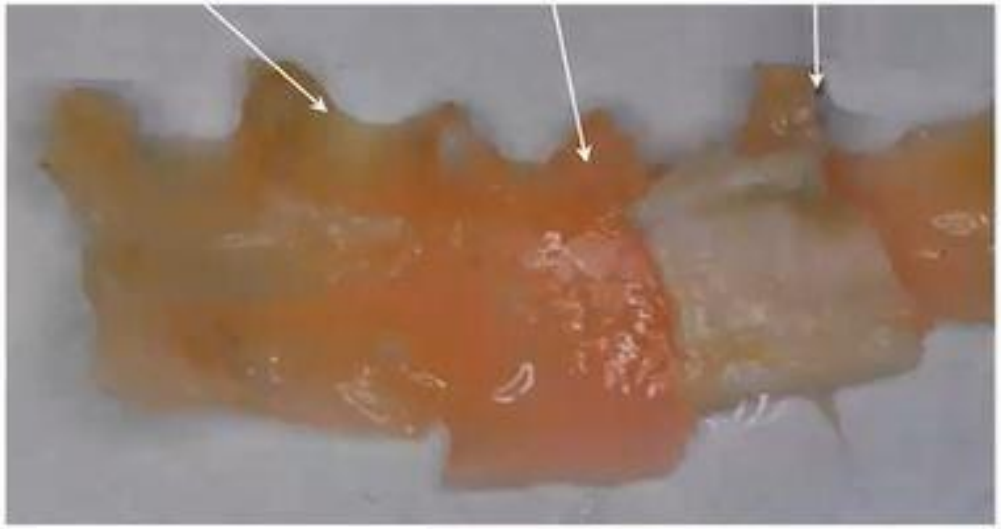
Biodegradation of Three Different Collagen Membranes in the Rat Calvarium: a Comparative Study
Moses O, Vitrial D, Aboodi G, Sculean A, Tal H, Kozlovsky A, Artzi Z, Weinreb M, Nemcovsky CE
J Periodontol. 2008 May;79(5):905-11. doi: 10.1902/jop.2008.070361

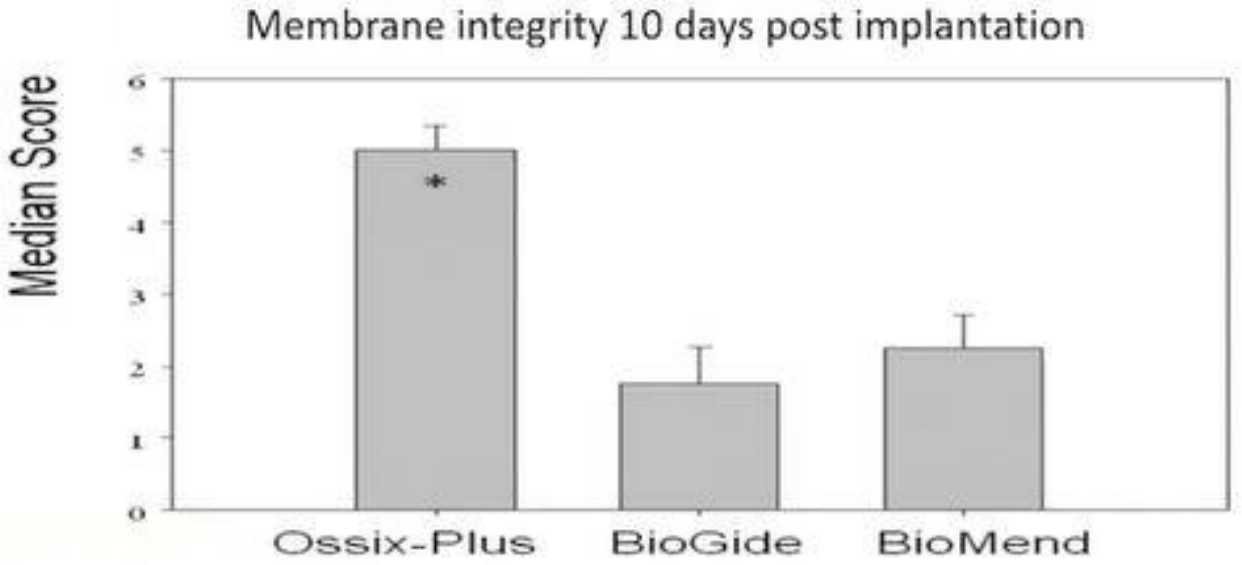
- Membranes differ in their resorption pattern following implantation, thus influencing clinical outcome.
- significant differences in the amount of residual membrane material were recorded within each membrane

# OSSIX Plus
# The Only Degradation-Resistant Membrane When Exposed


In vivo bio-durability of OSSIX Plus (sugar cross-linked) vs. BioMend (glutaraldehyde cross-linked) and Bio-Gide (non cross-linked) membranes after prolonged exposure to human oral micro flora

BioMend BioGide Ossix Plus






Klinger et al. In vivo degradation of collagen barrier membranes exposed to the oral cavity. Clin Oral Implants Res. 2010 Aug;21(8):873-6

# New Independent Comparative Study

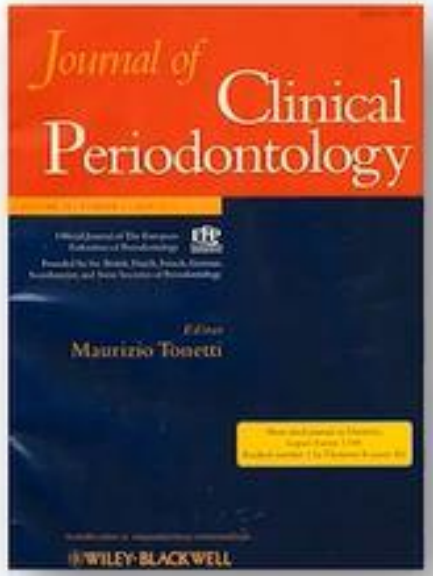
Academy of Osseointegration
osseo.org

HARVARD
School of Dental Medicine

Hong H, Kim D and Machtei E. **Socket preservation procedures revisited: a randomized controlled trial to evaluate dimensional changes with two different surgical protocols.**
ePoster presented at AO 2018.

- A comparison of soft and hard tissue parameters:
  allograft and a **Bio-Guide** non-cross-linked collagen membrane with primary closure
  versus allograft and **OSSIX Plus** cross-linked collagen membrane left exposed.

- Conclusion:
  **"Cross-linked collagen membrane with allograft intentionally non-submerged resulted in better preservation of the keratinized tissues (width and thickness) with similar and at times better osseous preservation."**

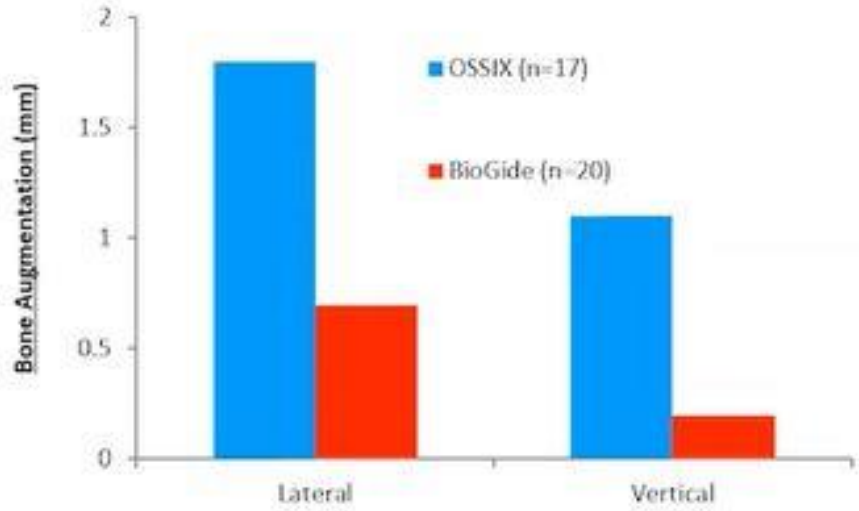



# OSSIX Plus is the Most Osteo-promotive Membrane

Friedmann et al. **Randomized controlled trial on lateral augmentation using two collagen membranes: morphometric results on mineralized tissue compound.** *J Clin Peridontol* 2011; 38: 677–685.

CONCLUSIONS:

- OSSIX Plus sites showed superior levels of hard tissue Ribose cross-linked membranes (RCLMs) (OSSIX) supported mineralization process and remodeling even in sites showing compromised healing as indicated by morphometric outcome.




- **Gain in clinically hard newly mineralized tissue at the crestal level was significantly higher in test group (OSSIX)** in lateral (1.8 versus 0.7 mm; p=.046) and in vertical dimensions (1.1 versus 0.2 mm; p=.035) compared with controls **(Bio-Gide)**.