



**total** biocompatibility

**ideal** osteoconduction

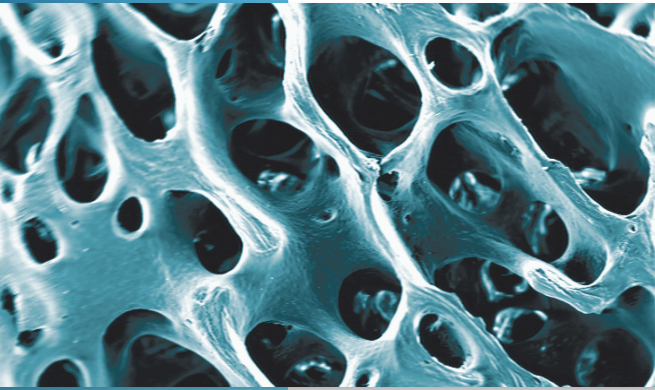
**complete** remodeling

## natural bone substitutes

<b>bio-gen</b>	granules, gel, putty and blocks
<b>osteoplant</b>	sheets and membranes
<b>biocollagen</b>	gel and membranes
<b>DBM</b>	granules, paste and gel

# Enzymatic process

## Zymo-Teck®: the secret of quality grafts



**Bioteck bone substitutes** are obtained from equine bone tissue treated with **Zymo-Teck®**. This exclusive proprietary process is based on the utilization of lytic enzymes operating at controlled temperatures. This enables the complete elimination of the antigen components of the tissue, without the mineral phase undergoing any changes. The unmodified bone mineral component is recognized as endogenous by the osteoclasts, thereby allowing for the total remodeling of the graft, which is completely replaced, in physiological time, by new patient vital bone tissue.

The best possible condition for osseointegrated implants.

**enzymatic process**

**beta ray sterilization**

**safety and quality**

**total biocompatibility**

**complete remodeling**

# natural bone substitutes



## Granules

Bio-Gen granules are a total osteoclastic remodeling bone substitute, which can be used for all types of bone defects.

### Clinical uses

- recommended for small size, four walls bone defects (cancellous)
- recommended for larger size bone defects (cortical)

### Remodeling time:

- 4 - 6 months (cancellous)
- 8 - 12 months (cortical)



<b>BGS-15</b>	<i>Bio-Gen cancellous granules</i>	1 btl / 0.5 g ≈ 1 cc	250 – 1000 μm
<b>BGS-05</b>	<i>Bio-Gen cancellous granules</i>	6 btl / 0.5 g ≈ 1 cc	500 – 1000 μm
<b>BGS-10</b>	<i>Bio-Gen cancellous granules</i>	1 btl / 0.5 g ≈ 1 cc	1000 – 2000 μm
<b>BGS-09</b>	<i>Bio-Gen cancellous granules</i>	6 btl / 0.5 g ≈ 1 cc	1000 – 2000 μm
<b>BGS-11</b>	<i>Bio-Gen cancellous granules</i>	6 btl / 1 g ≈ 2 cc	1000 – 2000 μm
<b>BGS-23</b>	<i>Bio-Gen cancellous granules</i>	6 btl / 1 g ≈ 2 cc	2000 – 3000 μm
<b>BGS-21</b>	<i>Bio-Gen cancellous granules</i>	1 btl / 2 g ≈ 4 cc	250 – 1000 μm
<b>BGS-22</b>	<i>Bio-Gen cancellous granules</i>	1 btl / 2 g ≈ 4 cc	1000 – 2000 μm
<b>BGC-05</b>	<i>Bio-Gen cortical granules</i>	6 btl / 0.5 g ≈ 1 cc	500 – 1000 μm
<b>BGC-05n</b>	<i>Bio-Gen cortical granules</i>	1 btl / 0.5 g ≈ 1 cc	500 – 1000 μm
<b>BGM-10</b>	<i>Bio-Gen cancellous/cortical granules</i>	6 btl / 0.25 g ≈ 0.5 cc	500 – 1000 μm
<b>BGM-05</b>	<i>Bio-Gen cancellous/cortical granules</i>	6 btl / 0.5 g ≈ 1 cc	500 – 1000 μm
<b>BGM-05n</b>	<i>Bio-Gen cancellous/cortical granules</i>	1 btl / 0.5 g ≈ 1 cc	500 – 1000 μm
<b>BGM-100</b>	<i>Bio-Gen cancellous/cortical granules</i>	6 btl / 1 g ≈ 2 cc	500 – 1000 μm
<b>BGM-20</b>	<i>Bio-Gen cancellous/cortical granules</i>	1 btl / 2 g ≈ 4 cc	500 – 1000 μm

## Gel Granules

Bio-Gen Mix Gel is a mixture consisting of Bio-Gen Mix cortical-cancellous granules and water-based gel. It is extremely practical and easy-to-handle. It can be applied directly in the graft site. Useful for all defect types.

### Clinical uses:

- recommended for all types of defect
- excellent for maxillary sinus lift (Summers)
- excellent for very large periodontal defects

### Remodeling time:

- 4 - 6 months (cancellous)
- 8 - 12 months (cortical)



<b>BGM-GEL05</b>	<i>Bio-Gen mix gel cancellous/cortical granules</i>	3 syr 0.5 ml	500 – 1000 μm
<b>BGM-GEL05n</b>	<i>Bio-Gen mix gel cancellous/cortical granules</i>	1 syr 0.5 ml	500 – 1000 μm
<b>BGM-GEL1</b>	<i>Bio-Gen mix gel cancellous/cortical granules</i>	3 syr 1 ml	500 – 1000 μm
<b>BGM-GEL1n</b>	<i>Bio-Gen mix gel cancellous/cortical granules</i>	1 syr 1 ml	500 – 1000 μm
<b>BGM-GEL2</b>	<i>Bio-Gen mix gel cancellous/cortical granules</i>	1 syr 2 ml	500 – 1000 μm



## Demineralized Bone Matrix (DBM)

Biotect Activagen and Angiostad are osteopromotive bone grafts containing Demineralized Bone Matrix (DBM). Demineralization process completely exposes type I collagen and organic extracellular matrix, thus enhancing the bone healing process.

**Clinical uses:** in combination with Biotect bone substitutes in order to improve the biological conditions favoring bone regeneration

<b>OGS-AC5</b>	<i>Activagen DBM granules</i>	3 btl	0.5 cc
<b>OGS-ACM500</b>	<i>Activagen DBM moldable paste</i>	3 syr	0.5 ml
<b>OGS-ACM600</b>	<i>Activagen DBM moldable paste</i>	3 syr	1 ml
<b>OGS-GEL1</b>	<i>Angiostad DBM gel</i>	3 syr	1 ml



## Putty

Bio-Gen Putty is a moldable paste made of cancellous Bio-Gen granules and collagen from Achilles' tendon. It's easily moldable, hemostatic and sticks well to bone walls.

**Clinical uses:**

- recommended for small size, four walls bone defects
- excellent for post-extractive sockets

**Remodeling time:** • 4 - 6 months

<b>BGP-01</b>	<i>Bio-Gen Putty dry (lyophilized) bone paste</i>	6 btl	0.5 cc
<b>BGP-01n</b>	<i>Bio-Gen Putty dry (lyophilized) bone paste</i>	1 btl	0.5 cc



## Collagen Membranes

Biocollagen is a membrane made of Achilles' tendon collagen for guided bone regeneration. Its protection time is 4-6 weeks, therefore it is indicated to cover small grafted sites only.

**Clinical uses:**

- to protect small grafted sites
- to stabilize granular grafts

**Protection time:** • 4 - 6 weeks

<b>BCG-02</b>	<i>Biocollagen collagen membrane</i>	6 btl	15 x 20 x 0.2 mm
<b>BCG-01</b>	<i>Biocollagen collagen membrane</i>	6 btl	25 x 25 x 0.2 mm
<b>BCG-01n</b>	<i>Biocollagen collagen membrane</i>	1 btl	25 x 25 x 0.2 mm
<b>BCG-04</b>	<i>Biocollagen collagen membrane</i>	1 pc	40 x 30 x 0.2 mm

# natural bone substitutes



## Cortical Membranes

Osteoplast Cortical Membrane is a flexible cortical bone sheet that works as a long lasting (> 6 months) resorbable membrane.

- Clinical uses:**
- to protect grafted sites where regeneration is expected to be slow (horizontal and vertical augmentation)
  - to maintain bone profiles (vestibular ridge reconstruction)

- Protection time:**
- 6 months (protection)
  - 8 - 14 months (total remodeling)

<b>OTC-CE</b>	<i>Osteoplast cortical membrane</i>	1 pc	25 x 25 x 0.2 mm
<b>OTC-CE2</b>	<i>Osteoplast cortical membrane</i>	1 pc	50 x 25 x 0.2 mm



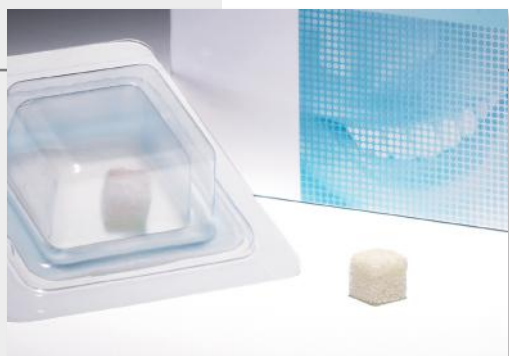
## Cancellous or Cortical Flex Sheets

Osteoplast Flex devices are flexible, easy-to-handle, cortical or cancellous bone sheets. Given their flexibility, they adapt perfectly to the receiving site minimizing the risk of defective angiogenesis. They need fixation with screws or similar devices.

- Clinical uses:**
- vertical ridge augmentation with concomitant implant placement (cortical sheet)
  - horizontal ridge augmentation (cancellous sheet)
  - sinus lift, to protect the Schneider membrane (Tulasne technique)

- Remodeling time:**
- 4 - 6 months (cancellous)
  - 8 - 12 months (cortical)

<b>OTC-C1</b>	<i>Osteoplast flex cortical sheets</i>	1 pc	25 x 25 x 2-2.5 mm
<b>OTC-S1</b>	<i>Osteoplast flex cancellous sheets</i>	1 pc	25 x 25 x 3 mm



## Cancellous Blocks

Bio-Gen cancellous blocks are tough, rigid blocks. They feature the same mechanical resistance to compression and elastic deformation of natural bone. They can be shaped with rotating instruments, or drilled, without breaking. They have to be fixed in place with screws or similar.

- Clinical uses:**
- horizontal or vertical/horizontal ridge augmentation (onlay) upper jaw only
  - inlay grafts

- Remodeling time:**
- 6 - 8 months

<b>BGB-11</b>	<i>Bio-Gen cancellous block</i>	1 pc	10 x 10 x 10 mm
<b>BGB-12</b>	<i>Bio-Gen cancellous block</i>	1 pc	10 x 10 x 20 mm
<b>BGB-30</b>	<i>Bio-Gen cancellous wedge</i>	1 pc	25 x 10 x 5 mm (final 2 mm)



**BiOTECK**<sup>®</sup>



**Bioteck S.p.A.**

Headquarters:

Via E. Fermi 49 - 36057 Arcugnano (Vicenza) - Italy

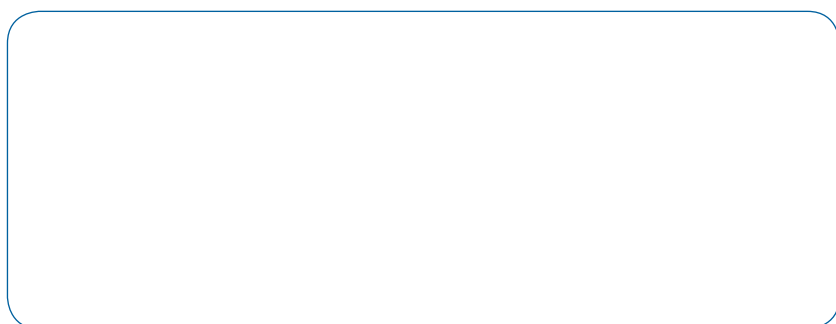
Tel. +39 0444 289366 - fax: +39 0444 285272

info@bioteck.com - www.bioteck.com

Production and R&D Center:

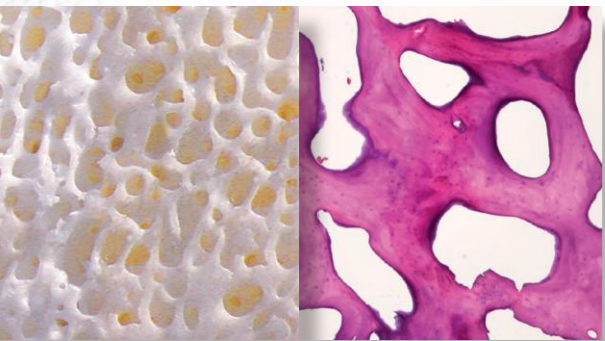
Via G. Agnelli, 3 - 10020 Riva presso Chieri (Turin) - Italy

bioteck.com





## Zymo-Teck® process: the secret of the quality of grafts and membranes

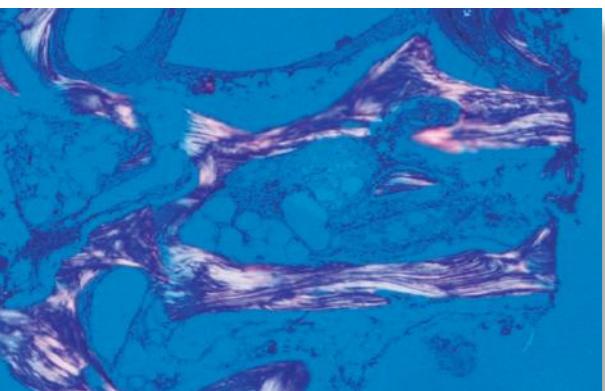


**Bioteck®**, a leader in the production of tissue substitutes of natural origin, has developed the exclusive deantigenation **Zymo-Teck®** process. The **Zymo-Teck®** process, unlike other processes based on high temperature treatments or using chemical solvents, uses enzymes, natural proteins able to precisely and selectively remove the various unwanted substances, making the tissues completely bio-compatible and devoid of treatment residues. **Zymo-Teck®** also preserves useful molecules, such as collagen in its natural structure and, operating at controlled temperatures, does not alter the structural characteristics of the tissues. The stringent in-line quality controls implemented by **Bioteck®** at all stages of processing guarantee the highest quality of grafts: to obtain the best surgical outcome.

Improve your knowledge about the **Zymo-Teck®** process by selecting the QR-Code on the right.

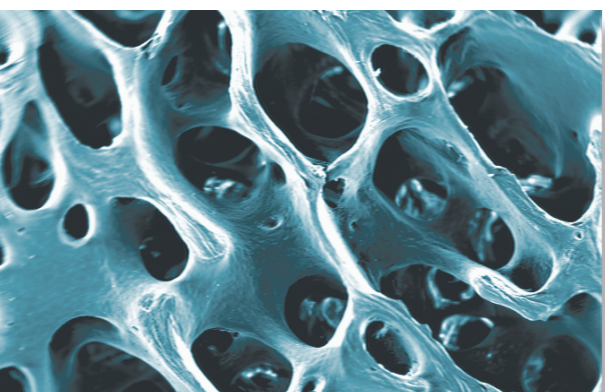


## Preserved bone collagen



Grafting bone collagen into the defect creates a precise biological condition: osteoblasts, the cells responsible for the formation of new bone tissue, produce collagen fibers that are then saturated by calcium minerals. It's the same three-dimensional structure of collagen that allows the nucleation of crystals of bone apatite, through a physical phenomenon called epitaxy. In addition, the type I bone collagen stimulates, both at cellular and sub-cellular level, an extremely high number of processes involved in bone regeneration. The presence of bone collagen in **OX®** is also demonstrated in polarised light: collagen fibres, having a regular texture, presents a refractivity characteristic that makes it look lighter.

## Total remodeling



**OSTEOXENON®** is reworked and reabsorbed through the action of osteoclasts. This happens with entirely physiologic kinetics: as well as the patient's bone it is fully remodeled within 8-12 months, as it happens for **OSTEOXENON®**: after this period it is completely replaced by the patient's bone. This is possible because **OX®**, unlike other materials, is recognized as the optimum substrate by osteoclasts that reabsorb it physiologically; only in this case, in fact, the regenerative process may end with the complete replacement of the graft. If the material is remodeled and is reabsorbed physiologically there can be no loss of volume. If the material is reabsorbed too quickly (e.g. calcium phosphate) or too slowly (e.g. synthetic hydroxyapatites) the volume of new endogenous bone is not equal to the grafted volume. **OSTEOXENON®**, however, by remodeling itself through osteoclastic activity, it keeps the grafted volume.



**Bioteck S.p.A.**

**Headquarters:**

Via E. Fermi 49 - 36057 Arcugnano (Vicenza) - Italy  
Tel. +39 0444 289366 - fax: +39 0444 285272  
info@bioteck.com - www.bioteck.com

**Production and R&D Center:**

Via G. Agnelli, 3 - 10020 Riva Presso Chieri (Turin) - Italy.

**Bioteck®** is an Italian company producing bone substitutes and protective membranes that are successfully used in orthopaedics, neurosurgery, oral and maxillofacial surgery.

Founded in 1995, the company continues to grow constantly and now operates in more than 50 countries around the world.



A firm commitment to scientific research forms the basis for the innovative solutions offered by **Bioteck®** products. The company collaborates on numerous national and international research projects, which have driven the basic research and helped in writing important chapters in bone biology.

The in-depth knowledge acquired by **Bioteck®** through its research ensures the absolute quality of its products, which are subjected to strict environmental and quality controls, thereby guaranteeing a product meeting the highest quality and safety standards.

**Bioteck®** applies a policy of total transparency, opening up the doors of its Production and R&D Center for the monitoring of its innovative process and the intense scientific research carried out by its staff.



bioteck.com



In over twenty years of scientific research and clinical practice, **Bioteck®** has made an important contribution to the clinical/scientific knowledge in the field of tissue biology.

The **Bioteck Academy** is the meeting place of all the excellences that continuously contribute to the development of this knowledge and **Bioteck®** products.

The Academy has developed a culture of sharing scientific knowledge aimed at the **dissemination of best techniques and practices in the various areas of regenerative surgery** and is open to all professionals who decide to participate in this activity by sharing their surgical experience.

More information on the activities of the Academy can be found at: [www.bioteckacademy.com](http://www.bioteckacademy.com).

bioteckacademy.com



## Complete line of collagenated bone substitutes and membranes

ENZYMATIC DEANTIGENATION  
PRESERVED BONE COLLAGEN  
TOTAL REMODELING  
CLINICAL SUCCESS



### GRANULES IN VIAL

<b>OX37</b> Cancellous	0.25 g ≈ 0.5 cc	(0.5 – 1 mm)
<b>OX30</b> Cancellous	0.5 g ≈ 1 cc	(0.5 – 1 mm)
<b>OX33</b> Cancellous	1 g ≈ 2 cc	(2 – 3 mm)
<b>OX34</b> Cancellous	1 g ≈ 2 cc	(2 – 4 mm)
<b>OX36</b> Cancellous	1 g ≈ 2 cc	(0.5 – 1 mm)
<b>OX38</b> Cancellous	2 g ≈ 4 cc	(0.5 – 1 mm)
<b>OX39</b> Cancellous	2 g ≈ 4 cc	(2 – 3 mm)
<b>OX40</b> Cortical	0.5 g ≈ 1 cc	(0.5 – 1 mm)
<b>OX35</b> Cancellous- cortical mix	0.25 g ≈ 0.5 cc	(0.5 – 1 mm)
<b>OX31</b> Cancellous- cortical mix	0.5 g ≈ 1 cc	(0.5 – 1 mm)
<b>OX32</b> Cancellous- cortical mix	1 g ≈ 2 cc	(0.5 – 1 mm)
<b>OX41</b> Cancellous- cortical mix	2 g ≈ 4 cc	(0.5 – 1 mm)



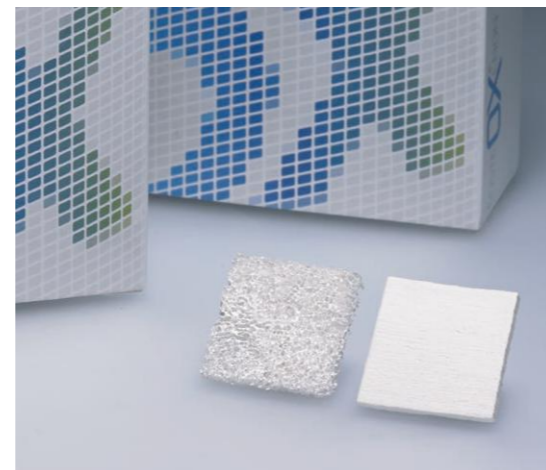
### GRANULES IN SYRINGE

<b>OX21</b> Cancellous- cortical mix	2 syringes	0.25 ml
<b>OX22</b> Cancellous- cortical mix	2 syringes	0.50 ml
<b>OX23</b> Cancellous- cortical mix	1 syringe	1 ml



### BLOCKS

<b>OX51</b> Cancellous block	1pc	10 x 10 x 10 mm
<b>OX52</b> Cancellous block	1pc	10 x 10 x 20 mm
<b>OX54</b> Cancellous block	2pcs	10 x 20 x 3 mm
<b>OX55</b> Cancellous block	2pcs	10 x 20 x 5 mm
<b>OX05R</b> Cancellous- cortical block	1pc	15 x 30 x 5 mm



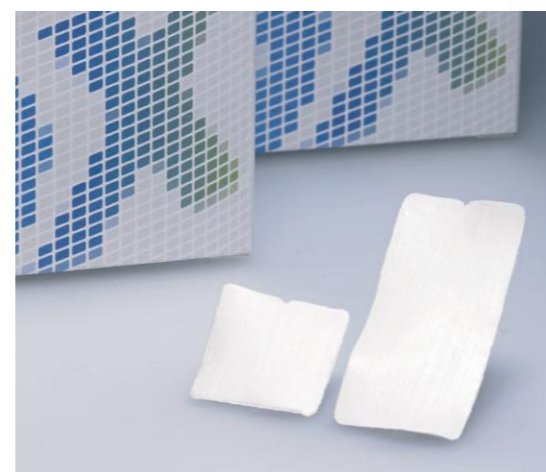
### FLEX

<b>OX01</b> Flexible cancellous sheet	1pc	25 x 25 x 3 mm
<b>OX02</b> Flexible cortical sheet	1pc	25 x 25 x 2 - 2.5 mm



### COLLAGEN MEMBRANE

<b>BCG-XC30</b> Collagen membrane	1pc	30 x 25 x 0.2 mm
-----------------------------------	-----	------------------



### CORTICAL MEMBRANE

<b>OX03</b> Cortical membrane	1pc	25 x 25 x 0.2 mm
<b>OX04</b> Cortical membrane	1pc	50 x 25 x 0.2 mm

## Application table

	Granules in vial				Granules in syringe	Flex Sheets		Blocks	Membranes	
	OX30 OX37 OX38 Cancellous Granules 0.5-1.0 mm	OX31 OX32 OX35 OX41 Cancellous Cortical Granules 0.5-1.0 mm	OX33 OX34 OX36 OX39 Cancellous Granules 2-3 mm 2-4 mm	OX40 Slow resorption Cortical Granules 0.5-1.0 mm	OX21 OX22 OX23 Cancellous Cortical Granules 0.5-1.0 mm	OX01 Cancellous Flex 25x25x3 mm	OX02 Cortical Flex 25x25x3 mm	OX51 OX52 OX54 OX55 Cancellous OX05R Cancellous Cortical	BCG-XC30 Collagen Membrane 30x25x0.2 mm	OX03 OX04 Cortical Membrane 25x25x0.2 mm 50x25x0.2 mm
<b>Periodontal defect</b> (very small, difficult access)										
<b>Periodontal defect</b> - Infrabony defects (1-3 walls) - Furcation defects (class I or II)										
<b>Peri-implant defect</b> (up to 3 exposed threads)										
<b>Peri-implant defect</b> (more than 3 exposed threads)										
<b>Post-extractive socket</b> (preservation)										
<b>Sinus lift</b> (Misch, traditional)			As an alternative to OX31/32						Also for membrane tear if < 5 mm	
<b>Sinus lift</b> (variation according Tulasne or membrane tear, if > 5 mm)			As an alternative to OX31/32			As an alternative to OX31/32				
<b>Sinus lift</b> (Summers)			As an alternative to OX21/22							
<b>Horizontal ridge augmentation*</b> (onlay)	To fill gaps, if present	To fill gaps, if present			To fill gaps, if present	As an alternative to OX51/52/54/55				
<b>Horizontal ridge augmentation</b> (split crest)										
<b>Vertical ridge augmentation and contemporary implant placement</b> (block technique)	To fill gaps, if present	To fill gaps, if present			To fill gaps, if present					
<b>Vertical ridge augmentation and contemporary implant placement</b> (Ludovichetti approach)										
<b>Vertical ridge augmentation*</b> (onlay, two steps)	To fill gaps, if present	To fill gaps, if present			To fill gaps, if present					
<b>Vertical ridge augmentation</b> (inlay)	To fill gaps, if present	To fill gaps, if present			To fill gaps, if present					
<b>Volumetric preservation</b> (for esthetics)										

\* Or a combination of horizontal and vertical augmentation



**Bioteck S.p.A.**

**Headquarters:**  
Via E. Fermi 49 - 36057 Arcugnano (Vicenza) - Italy  
Tel. +39 0444 289366 - fax: +39 0444 285272  
info@bioteck.com - www.bioteck.com

**Production and R&D Center:**  
Via G. Agnelli, 3 - 10020 Riva Presso Chieri (Turin) Italy.

**Bioteck**<sup>®</sup> is an Italian company producing bone substitutes and protective membranes that are successfully used in oral and maxillofacial surgery, Orthopaedics and Neurosurgery. Founded in 1995, the company continues to grow constantly and now operates in more than 50 countries around the world.

A firm commitment to scientific research forms the basis for the innovative solutions offered by **Bioteck**<sup>®</sup> products. The company collaborates on numerous national and international research projects, which have driven the basic research and helped in writing important chapters in bone biology. The in-depth knowledge acquired by **Bioteck**<sup>®</sup> through its research ensures the absolute quality of its products, which are subjected to strict environmental and quality controls, thereby guaranteeing a product meeting the highest quality and safety standards.

**Bioteck**<sup>®</sup> applies a policy of total transparency, opening up the doors of its Production and R&D Center for the monitoring of its innovative process and the intense scientific research carried out by its staff.



Headquarters



Production and R&D Center



**A Guarantee of Quality and Safety**



Biochemical Lab/Quality Control



**For more information:**



concept: mauro forlani - vi cod. Y\_XC\_GAT\_ENG rev. 20170127

tissue regeneration

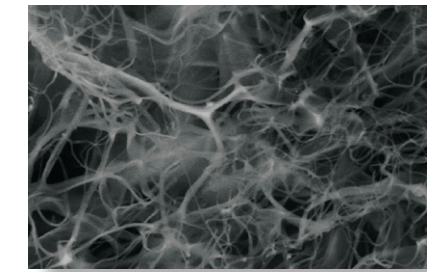
tridimensional collagen matrix

clinical success

xenomatrix

**xenomatrix: soft tissue regeneration**

for a faster tissue healing



Through observation under the SEM (Scanning Electron Microscope) it is possible to see the tight knit of collagen fibers that distinguishes the tridimensional Xenomatrix.

Padua University, CUGAS Service Center

**Tridimensional collagen matrix**

**Xenomatrix** is a special collagenic tridimensional matrix made of collagen extracted from equine Achilles tendon through an advanced biochemical process. It's a totally biocompatible scaffold that drives the growth of connective tissue cells. While protecting the underlying bone graft from the connective cells invasion, **Xenomatrix** provides the best substrate for the spreading of soft tissue, accelerating healing. Accelerated healing times contributes to alleviate the patient's discomfort and to decrease the probability of infection, which would compromise the whole surgery success. Healing is optimal, to achieve the best aesthetic result.

**For outstanding surgical indications**

**Xenomatrix** is indicated in all those conditions where promoting soft tissue regeneration stands for success. A first application is in the management of **post-extractive socket**. The soft tissue healing with **Xenomatrix** is undistinguishable from healing achievable by simple second intention flap closure. Clinically, faster tissue healing is observed. Epidermal and dermal tissues quality and their final thickness are just identical. Moreover, **Xenomatrix** works as a barrier, preventing connective tissue cells to invade the underlying grafted volume. Providing, therefore, the best condition for a successful bone regeneration and **socket preservation**.



Bilateral case, same patient. Spontaneous healing (up) and healing after grafting Xenomatrix BCG-XC10 (bottom). After 21 days healing at the Xenomatrix side is at a much more advanced stage.

Courtesy Dr. Alessandro Leonida - Milan



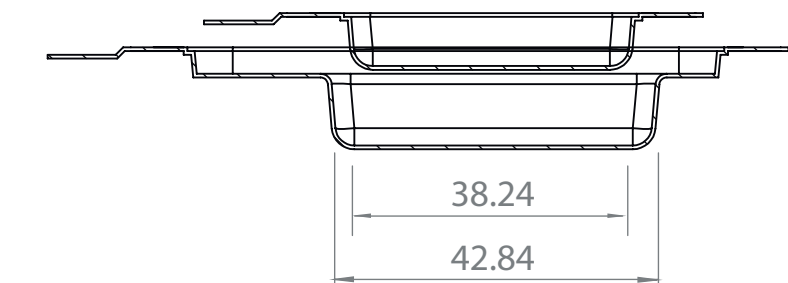
4 months after the procedure one may appreciate how application of the BCG-XC50 tridimensional matrix has resulted in complete cover of the gingival recession.

Courtesy Dr. Giacomo Tarquini - Rome

A second application is the treatment of **gingival recessions**, where grafting **Xenomatrix** makes it possible to create a substrate promoting the re-growth of soft tissue, thus avoiding grafting connective tissue from the palate and decreasing the surgical risk and side effects for the patient, achieving excellent aesthetic results.

**In conditions of the utmost safety and convenience**

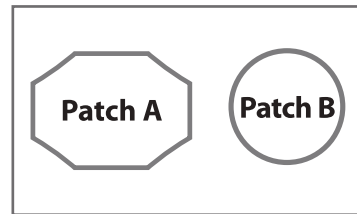
All **Xenomatrix** formats are supplied in a **double sterile blister** that assures completely aseptic handling of the matrix when it is introduced in the surgical field: the **utmost safety** combined with the **utmost convenience**.



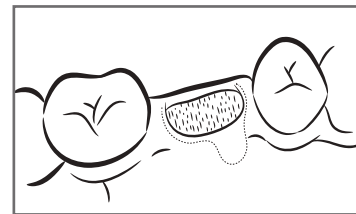
## applicative technique



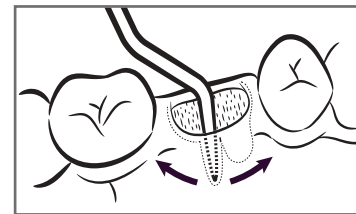
XC Collagen Xenomatrix  
BCG-XC10



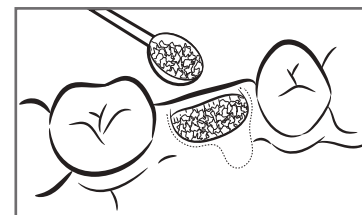
Xenomatrix is provided as two patches, A and B



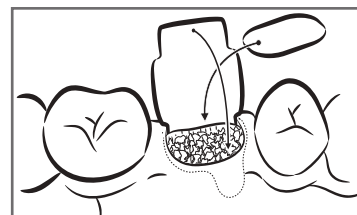
Post-extractive socket



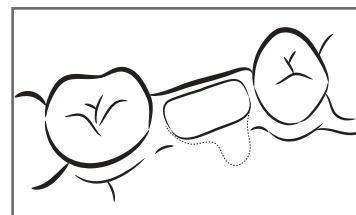
Detach the flap all around the socket



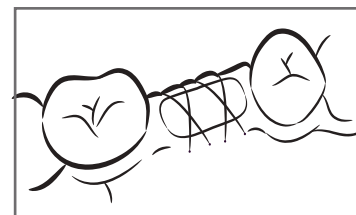
Graft the granules



a) Place one of the short extremities of patch A under the flap  
b) Place patch B over the graft



Place the other extremity of patch A under the flap, covering patch B



Stabilize with one or two cross stitches

## surgical application



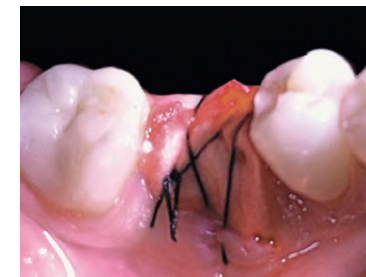
Post-extractive socket



Flap detaching, preserving the papillae



The bone graft and patch A positioning



Cross stitch, Xenomatrix being left exposed



Healing, seven days



Healing, three months



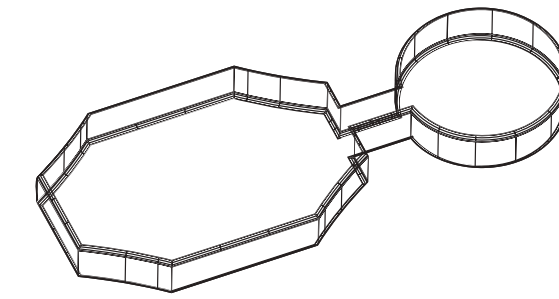
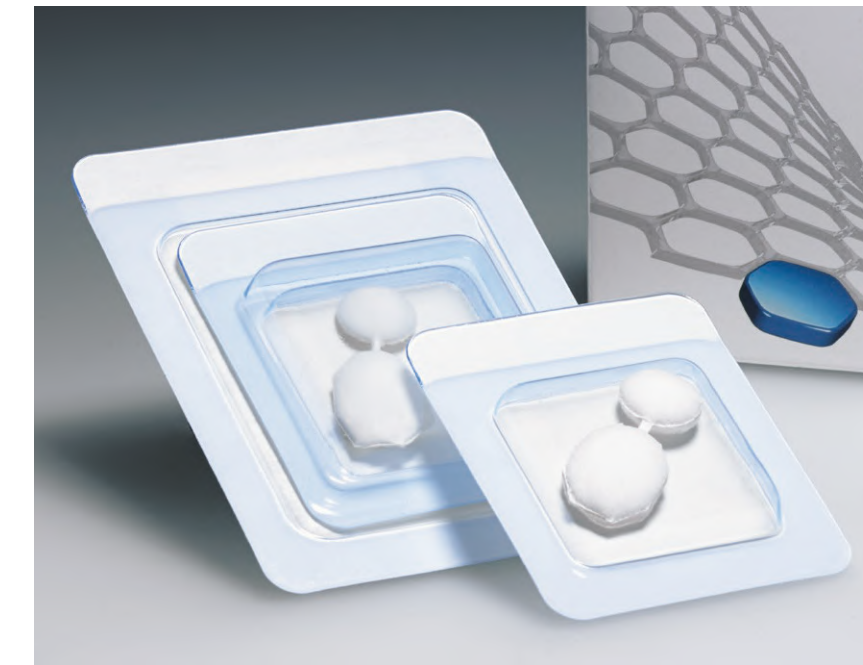
Definitive prosthetic abutment



Definitive crown

The surgical procedure shown has been developed by Dr. Alessandro Leonida, DDS, PhD.

## solutions

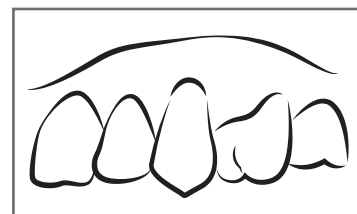


### Xenomatrix Collagen Patch

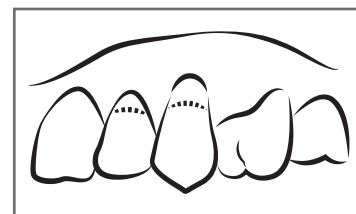
**BCG-XC10** XC Collagen Xenomatrix  
2 patches:  
Patch A: 20 x 10 x 4 mm  
Patch B: Ø 14 x 4 mm



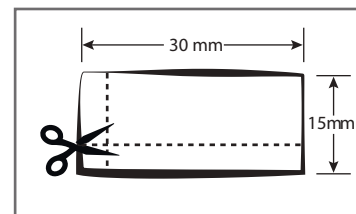
XC Collagen Xenomatrix  
BCG-XC50



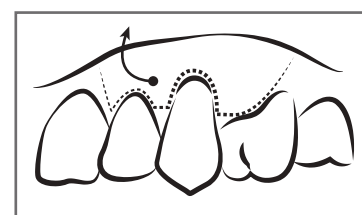
Class I or II gingival recession (according to Miller)



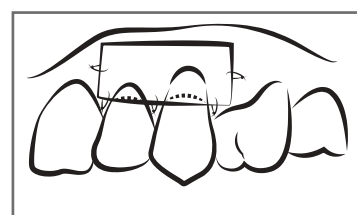
Identify the maximum achievable root coverage level



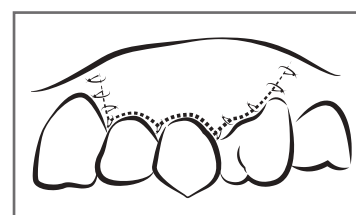
If necessary, cut out the matrix based on the number of dental elements involved and the width of the defect to be corrected



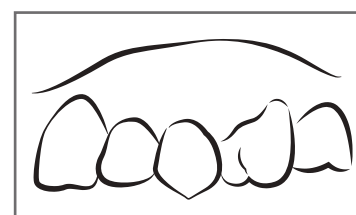
Variable (split-full-split) thickness trapezoidal flap elevation



Place the matrix at the level of the cementoamel junction (CEJ). Suture the matrix with resorbable horizontal mattress sutures and interrupted sutures at the base of the anatomical papillae



Place the flap coronally by about 1 mm to the CEJ and suture it with sling and interrupted sutures



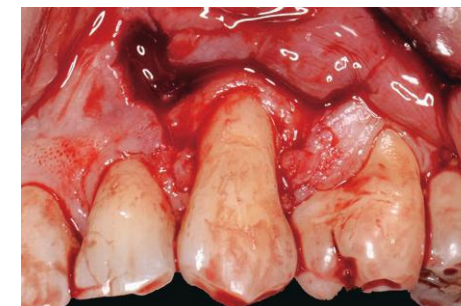
Complete cover of the gingival recessions



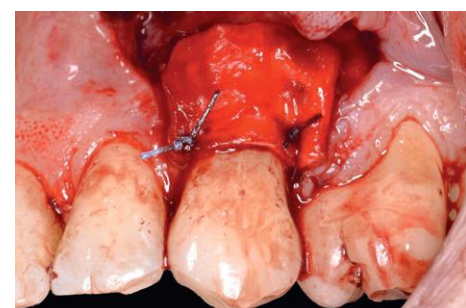
Class I or II gingival recession (according to Miller)



The exposed root portion is accurately polished paying the utmost care not to damage the marginal tissues



Modified coronal sliding flap; it is essential to achieve passive positioning



Positioning of the BCG-XC50 tridimensional matrix at the cementoamel junction level (CEJ). Suturing the same to the recipient bed using resorbable stitches

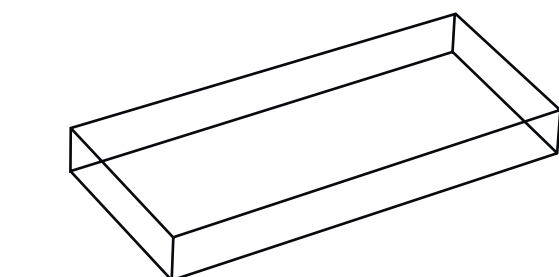
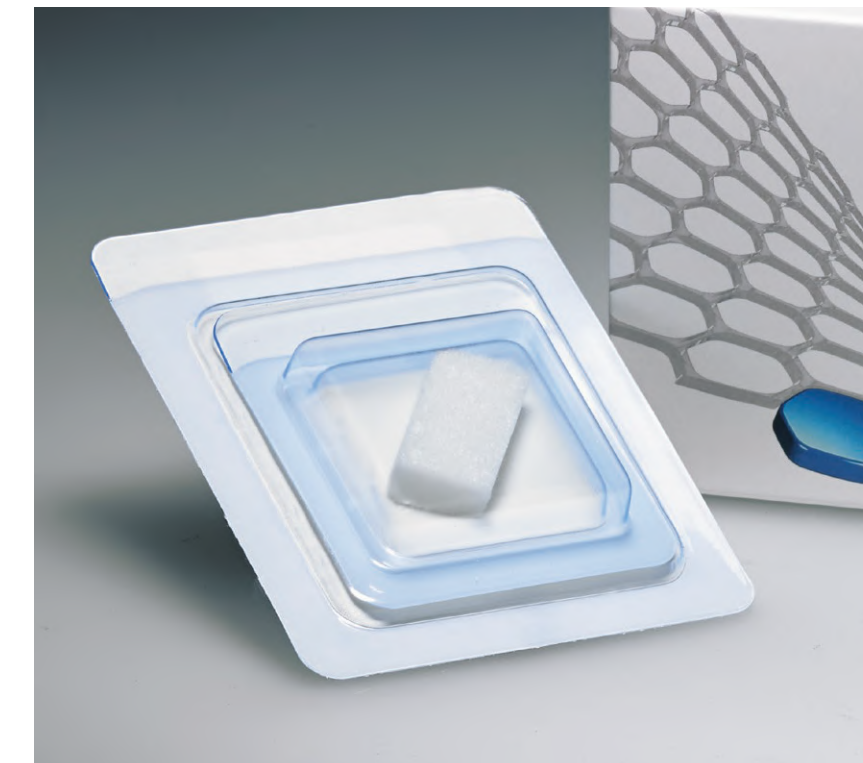


Suturing the flap with interrupted and sling sutures. It is essential to perform a tension-free suture



Healing at 4 months. Complete root coverage and an increase of the keratinized tissue thickness is observed

Courtesy of Dr. Giacomo Tarquini, DDS.



### Xenomatrix Collagen Patch

**BCG-XC50** XC Collagen Xenomatrix  
1 piece, 15 x 30 x 4 mm