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Readings  
& Bibliography

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## BIOTECK ACADEMY IS THE NATURAL MEETING PLACE WHERE EXCELLENCE CONVERGES TO ADVANCE THE FIELD OF REGENERATIVE MEDICINE.

Bioteck Academy promotes the circulation and dissemination of knowledge in the field of regenerative medicine, specifically applied to dentistry, maxillofacial surgery, orthopaedics, and neurosurgery. By fostering interactions with researchers from Italian and international universities and collaborating with leading clinicians, Bioteck Academy has cultivated a culture of scientific knowledge exchange. This culture aims to spread best practices and techniques across various fields of regenerative surgery. Bioteck Academy is an innovative community open to clinicians and researchers who benefit from sharing their experiences.

The result of this fruitful interaction is presented in the form of Summary Sheets both on the Bioteck Academy website ([bioteckacademy.com](http://bioteckacademy.com)) and in a series of printed volumes for easy reference.

Regenerative medicine is a complex subject combining clinical, biological and technological knowledge and expertise. For this reason, the subject of the Summary Sheets published by the Bioteck Academy, cover a wide range of topics, including clinical cases categorized by application area (oral and maxillofacial surgery, orthopaedics and neurosurgery), basic research and technology.

Each document is identified by a specific colour representing the subject and includes a rich high-resolution iconography, as well as helpful bibliographic references allowing further reading.

# BIOTECK ACADEMY È IL NATURALE LUOGO D'INCONTRO IN CUI L'ECCELLENZA CONVERGE PER FAR PROGREDIRE IL CAMPO DELLA MEDICINA RIGENERATIVA.

Bioteck Academy promuove la circolazione e la diffusione della conoscenza nel campo della medicina rigenerativa, applicata specificamente all'odontoiatria, alla chirurgia maxillo-facciale, all'ortopedia e alla neurochirurgia. Favorendo le interazioni con ricercatori di università italiane e internazionali e collaborando con clinici di spicco, Bioteck Academy ha coltivato una cultura di condivisione della conoscenza scientifica. Questa cultura mira a diffondere le migliori pratiche e tecniche nei vari campi della chirurgia rigenerativa. Bioteck Academy è una comunità innovativa aperta a clinici e ricercatori che traggono beneficio dalla condivisione delle loro esperienze.

Il risultato di questa proficua interazione è presentato, sotto forma di schede, sul sito della Bioteck Academy ([bioteckacademy.com](http://bioteckacademy.com)) e all'interno di una serie di volumi stampati per una facile consultazione.

La medicina rigenerativa è un soggetto complesso dove concorrono competenze cliniche, biologiche e tecnologiche alla base della concezione e produzione dei materiali utilizzati. Per questa ragione le schede che la Bioteck Academy pubblica trattano argomenti di natura clinica, suddivisi per area di applicazione (chirurgia orale, chirurgia maxillofacciale, ortopedia, neurochirurgia), studi di ricerca di base e infine approfondimenti tecnologici. Ogni scheda è identificata da un colore specifico a seconda dell'argomento e include una ricca iconografia in alta risoluzione, oltre a utili rimandi bibliografici per approfondire gli argomenti trattati.

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## THE EVOLUTIONARY CONSERVATION OF BONE TISSUE AND COLLAGEN IN MAMMALS

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## CLINICAL DATA – ORTHOPAEDICS AND NEUROSURGERY APPLICATIONS DATI CLINICI – APPLICAZIONI ORTOPEDICHE E NEUROCHIRURGICHE

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## INTERVIEWS

### INTERVISTE

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## BIOTECK ACADEMY SHEETS CLINICAL CASES, SCIENCE AND TECHNOLOGY

The Bioteck Academy Sheets are a valid scientific communication tool available to the community of experts in regenerative medicine. Their structured format allows the reader to browse easily between the contents and find ideas for further reading and analysis.

The Sheets are colour coded as they are on Bioteck Academy website thus ensuring continuity and consistency. Topics covered span from clinical cases (Dentistry, Maxillofacial, Neurosurgery, Orthopaedics) to technology and fundamental research.

The **clinical sheets** present an impressive series of cases performed by talented Italian and foreign surgeons. The increasing attention for non-clinical topics is satisfied by the **technology sheets** covering the technological issues behind the production of biomaterials. Finally, the **basic research sheets** deal with topics, mainly of biological nature, relating to regenerative medicine.

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## CASI CLINICI, SCIENZA E TECNOLOGIA

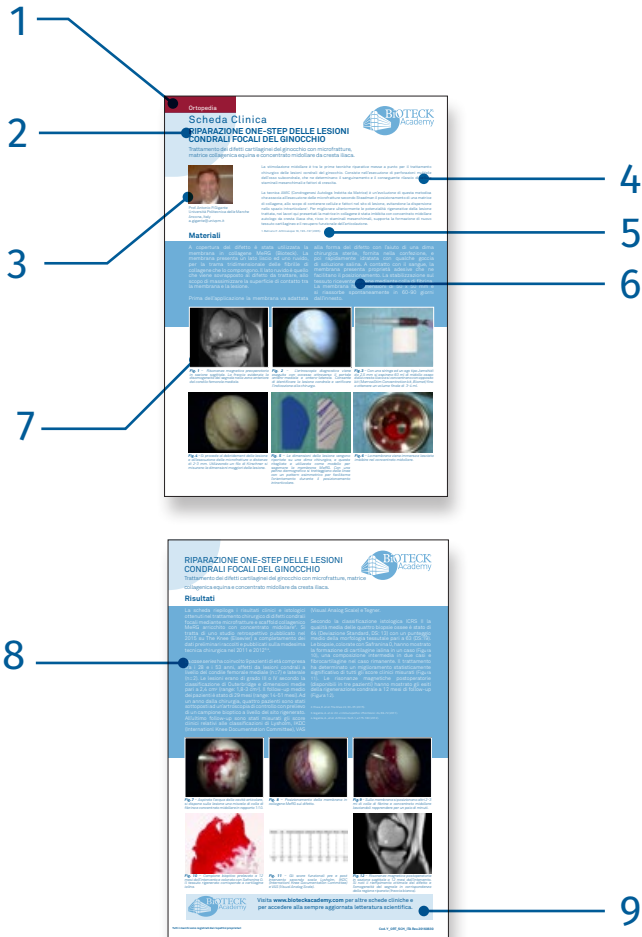
Le schede Bioteck Academy sono un valido strumento di comunicazione scientifica a disposizione della comunità di esperti in medicina rigenerativa. Il loro formato strutturato permette al lettore di muoversi agevolmente tra i contenuti e di trovare spunti per ulteriori letture e approfondimenti.

Le schede sono identificate da un codice colore che si ripete anche sul sito web della Bioteck Academy garantendo così continuità e coerenza. Gli argomenti trattati sono vari, di natura clinica (Odontoiatria, Maxillofacciale, Neurochirurgia, Ortopedia) e di natura tecnologica e di Ricerca di Base.

Le schede cliniche raccolgono un'impressionante serie di casi eseguiti da valenti chirurghi italiani e stranieri. La crescente attenzione verso temi non clinici soddisfatta dalle schede tecnologiche dove sono approfonditi i processi di produzione che portano alla creazione di biomateriali sempre migliori. Infine, le schede a tema scientifico, affrontano in modo semplice e rigoroso argomenti di natura perlopiù biologica di grande rilievo per la medicina rigenerativa.

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# SHEETS SCHEDE



(1)

Colour Codes  
Codici colore



Dental & Maxillofacial - *Odontoiatria/Maxillofacciale*



Neurosurgery - *Neurochirurgia*



Orthopaedics - *Ortopedia*



Basic Research - *Ricerca di base*



Technology - *Tecnologia*

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*Facile identificazione dei diversi ambiti attraverso i codici colore posizionati sull'angolo sinistro di ogni scheda*
- 2 - Clearly written title summarising the argument presented  
*Titolo relativo della scheda*
- 3 - Author's details and contact information  
*Nome dell'autore, affiliazione e contatti*
- 4 - A detailed introduction to the topic discussed  
*Un'introduzione dettagliata della tematica discussa nella scheda*
- 5 - Main bibliographic references  
*Principali referenze bibliografiche*
- 6 - A brief introduction to medical devices used to perform the procedure described in the document  
*Descrizione dei materiali utilizzati per la procedura descritta*
- 7 - A clear iconography. All images are carefully selected in order to guarantee the best reading  
*Iconografia estremamente chiara. Le immagini vengono opportunamente selezionate per garantire la migliore lettura*
- 8 - The case is discussed in this section and results are clearly presented  
*Discussione e presentazione dei risultati*
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*Ricordate di visitare il sito della Bioteck Academy*

Sbricoli, L. (2025)

**Alveolar preservation by modified periosteal inhibition. Volumetric restoration using an equine-derived Flex Cortical Sheet.**

*Bioteck Dental Surgery Sheets. DEN\_SCH68*

<https://www.bioteckacademy.com/en/publication/modified-periosteal-inhibition-with-lamina-in-cortical-bone-of-equine-origin/>

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Grassi, A. (2025)

**Modified periosteal inhibition with lamina in flexible cortical bone. Inhibition of osteoclastic remodelling using an equine-derived Flex Cortical Sheet.**

*Bioteck Dental Surgery Sheets. DEN\_SCH65*

<https://www.bioteckacademy.com/en/publication/modified-periosteal-inhibition-with-lamina-in-flexible-cortical-bone/>

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Coppe, M. (2025)

**Immediate implant insertion using collagen-preserved bone granules and flexible cortical lamina. Guided bone regeneration (GBR) using equine-derived bone grafts in conjunction with a cortical lamina.**

*Bioteck Dental Surgery Sheets. DEN\_SCH64*

<https://www.bioteckacademy.com/en/publication/immediate-implant-insertion-using-collagen-preserved-bone-granules-and-flexible-cortical-lamina/>

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Garlini, G. (2025)

**Peri-implant GBR with a slow-resorbing bone graft and equine pericardium membrane. Crestal volume maintenance by GBR and simultaneous implant placement.**

*Bioteck Dental Surgery Sheets. DEN\_SCH67*

<https://www.bioteckacademy.com/en/publication/peri-implant-gbr-with-a-slow-resorbing-bone-graft-and-equine-pericardium-membrane/>

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Sbricoli, L. (2025)

**The use of a flexible cortical bone sheet to prevent bone resorption. Preservation of the vestibular cortical using Flex Cortical Sheet of equine origin.**

*Bioteck Dental Surgery Sheets. DEN\_SCH66*

<https://www.bioteckacademy.com/en/publication/the-use-of-a-flexible-cortical-bone-sheet-to-prevent-bone-resorption/>

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Rodriguez, A. et al. (2024)

**Alveolar ridge regeneration using PRF and collagen-preserved bone substitute. Immediate implant placement following alveolar ridge regeneration with equine bone graft.**

*Bioteck Dental Surgery Sheets. DEN\_SCH61*

<https://www.bioteckacademy.com/en/publication/alveolar-ridge-regeneration-using-prf-and-collagen-preserved-bone-substitute/>

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Sbricoli, L. (2024)

**Guided Bone Regeneration using bone granules and flexible cortical lamina of equine origin. Bone augmentation using collagen-preserved bone granules and flexible cortical lamina.**

*Bioteck Dental Surgery Sheets. DEN\_SCH63*

<https://www.bioteckacademy.com/en/publication/guided-bone-regeneration-using-bone-granules-and-flexible-cortical-lamina-of-equine-origin/>

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Haider, A. (2024)

**Early implant rehabilitation using equine-derived tissue substitutes. Peri-implant GBR using resorbable membrane and equine bone substitutes.**

*Bioteck Dental Surgery Sheets. DEN\_SCH62*

<https://www.bioteckacademy.com/en/publication/early-implant-rehabilitation-using-equine-derived-tissue-substitutes/>

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Romano, P. (2023)

**Immediate post-extraction rehabilitation with heterologous bone graft substitutes. Bone regeneration using equine-derived bone grafts simultaneously with a customized healing abutment.**

*Bioteck Dental Surgery Sheets. DEN\_SCH58*

[https://www.bioteckacademy.com/en/publication/den\\_sch58/](https://www.bioteckacademy.com/en/publication/den_sch58/)

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Tarquini, G. (2023)

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*Bioteck Dental Surgery Sheets. DEN\_SCH59*

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*Bioteck Dental Surgery Sheets. DEN\_SCH57*

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*Bioteck Dental Surgery Sheets. DEN\_SCH56*

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*Bioteck Dental Surgery Sheets. DEN\_SCH55*

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*Bioteck Dental Surgery Sheets. DEN\_SCH54*

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*Bioteck Dental Surgery Showcase. DEN\_SWC8*

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*Bioteck Dental Surgery Showcase. DEN\_SWC7*

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**Regeneration of an extensive bone defect with partial loss of the vestibular wall. The combined use of heterologous granules and Flex Cortical Sheet promotes volume maintenance 4 years after surgery.**

*Bioteck Dental Surgery Showcase. DEN\_SWC6*

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**Bone regeneration after cyst removal, apicoectomy, and retrograde filling. Bone pastes are a practical solution for regenerating bone tissue in containment defects.**

*Bioteck Dental Surgery Showcase. DEN\_SWC5*

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*Bioteck Dental Surgery Showcase. DEN\_SWC4*

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**Ridge preservation by bone substitute and pericardium membrane of equine origin. Use of granules in syringe and pericardium membrane in an upper premolar ridge preservation surgery.**

*Bioteck Dental Surgery Sheets. DEN\_SCH53*

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*Bioteck Dental Surgery Sheets. DEN\_SCH52*

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*Bioteck Dental Surgery Sheets. DEN\_SCH51*

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*Bioteck Dental Surgery Showcase. DEN\_SWC3*

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*Bioteck Dental Surgery Showcase. DEN\_SWC2*

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*Bioteck Dental Surgery Showcase. DEN\_SWC1*

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*Bioteck Dental Surgery Showcase. DEN\_SWC*

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*Bioteck Dental Surgery Sheets. DEN\_SCH36*

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*Bioteck Dental Surgery Sheets. DEN\_SCH50*

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*Bioteck Dental Surgery Sheets. DEN\_SCH49*

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*Bioteck Dental Surgery Sheets. DEN\_SCH48*

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*Bioteck Dental Surgery Sheets. DEN\_SCH46*

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*Bioteck Dental Surgery Sheets. DEN\_SCH45*

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*Bioteck Dental Surgery Sheets. DEN\_SCH43*

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*Bioteck Dental Surgery Sheets. DEN\_SCH42*

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*Bioteck Dental Surgery Sheets. DEN\_SCH41*

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*Bioteck Dental Surgery Sheets. DEN\_SCH40*

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*Bioteck Dental Surgery Sheets. DEN\_SCH39*

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*Bioteck Dental Surgery Sheets. DEN\_SCH38*

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*Bioteck Dental Surgery Sheets. DEN\_SCH37*

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*Bioteck Dental Surgery Sheets. DEN\_SCH35*

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*Bioteck Dental Surgery Sheets. DEN\_SCH31*

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*Bioteck Dental Surgery Sheets. DEN\_SCH25*

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*Bioteck Dental Surgery Sheets - Scientific Evidence. DEN\_SCH24*

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*Bioteck Dental Surgery Sheets. DEN\_SCH23*

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*Bioteck Dental Surgery Sheets. DEN\_SCH20*

<https://www.bioteckacademy.com/en/publication/correzione-di-un-difetto-osseo-attorno-ad-un-impianto-post-estrattivo-immediato/>

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*Bioteck Dental Surgery Sheets. DEN\_SCH22*

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*Bioteck Dental Surgery Sheets. DEN\_SCH21*

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*Bioteck Dental Surgery Sheets. DEN\_SCH16*

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*Bioteck Dental Surgery Sheets. DEN\_SCH11*

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*Bioteck Dental Surgery Sheets. DEN\_SCH7*

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*Bioteck Dental Surgery Sheets. DEN\_SCH8*

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*Bioteck Dental Surgery Sheets. DEN\_SCH6*

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*Bioteck Dental Surgery Sheets. DEN\_SCH2*

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