

Bioteck Medical Devices – References

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Headquarters

BIOTECK S.p.A. Via E. Fermi, 49 - 36057 Arcugnano (VI) ITALY
ph (+39) 0444 289366 fax (+39) 0444 285272 mail vi@bioteck.com
VAT 02702750247 - FC VI06857400011 - REA VI268440 - Share Capital €120.000,00

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General background

a) On similarities between mammal's bones

- 1) Seeman, E. 2008. Modeling and remodeling: the cellular machinery responsible for the gain and loss of bone's material and structural strength. In L. G. R. John P. Bilezikian, T. John Martin (Ed.), *Principles of bone biology - Third edition*, Vol. 1: 3-28: Elsevier.
- 2) Keaveney, T. M. 1998. Cancellous bone. In J. B. a. G. Hastings) (Ed.), *Handbook of biomaterials properties*: 16-23. London: Chapman and Hall.
- 3) **The amino acid composition of mammalian collagen and gelatin.**
Eastoe, J. E. 1955. *Biochem J*, 61(4): 589-600.

b) On type I bone collagen effects

- 1) **The size exclusion characteristics of type I collagen: implications for the role of noncollagenous bone constituents in mineralization.**
Toroian, D., Lim, J. E., & Price, P. A. 2007. *J Biol Chem*, 282(31): 22437-47.
- 2) **The effect on osteogenesis of type I collagen applied to experimental bone defects.**
Gungormus, M. 2004. *Dent Traumatol*, 20(6): 334-337.
- 3) **Effect of type I collagen on the adhesion, proliferation, and osteoblastic gene expression of bone marrow-derived mesenchymal stem cells.**
Liu, G., Hu, Y. Y., Zhao, J. N., Wu, S. J., Xiong, Z., & Lu, R. 2004. *Chin J Traumatol*, 7(6): 358-62.
- 4) **Evaluation of the effect of heterologous type I collagen on healing of bone defects.**
Gungormus, M., & Kaya, O. 2002. *J Oral Maxillofac Surg*, 60(5): 541-5.
- 5) **Type I collagen induces expression of bone morphogenetic protein receptor type II.**
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- 6) **Type I collagen-induced osteoblastic differentiation of bone-marrow cells mediated by collagen-alpha2beta1 integrin interaction.**
Mizuno, M., Fujisawa, R., & Kuboki, Y. 2000. *J Cell Physiol*, 184(2): 207-13.
- 7) **Type I collagen in xenogenic bone material regulates attachment and spreading of osteoblasts over the beta1 integrin subunit.**
Basle, M. F., Lesourd, M., Grizon, F., Pascaretti, C., & Chappard, D. 1998. *Orthopade*, 27(2): 136-42.
- 8) **Cell-matrix interaction in bone: type I collagen modulates signal transduction in osteoblast-like cells.**
Green, J., Schotland, S., Stauber, D. J., Kleeman, C. R., & Clemens, T. L. 1995. *Am J Physiol*, 268(5 Pt 1): C1090-1103.
- 9) **Interaction of osteogenin, a heparin binding bone morphogenetic protein, with type IV collagen.**
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10) Dissociative extraction and reconstitution of extracellular matrix components involved in local bone differentiation.

Sampath, T. K., & Reddi, A. H. 1981. *Proc Natl Acad Sci U S A*, 78(12): 7599-603.

c) On TSE/BSE safety of equines

1) Probing early misfolding events in prion protein mutants by NMR spectroscopy.

Giachin, G., Biljan, I., Ilc, G., Plavec, J., & Legname, G. 2013. *Molecules*, 18(8): 9451-76.

2) The structural stability of wild-type horse prion protein.

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3) Prion disease susceptibility is affected by beta-structure folding propensity and local side-chain interactions in PrP.

Khan, M. Q., Sweeting, B., Mulligan, V. K., Arslan, P. E., Cashman, N. R., Pai, E. F., & Chakrabartty, A. 2010. *Proc Natl Acad Sci U S A*, 107(46): 19808-13.

4) Horse prion protein NMR structure and comparisons with related variants of the mouse prion protein.

Perez, D. R., Damberger, F. F., & Wuthrich, K. 2010. *J Mol Biol*, 400(2): 121-8.

5) EU-Directive. 2003. COMMISSION DIRECTIVE 2003/32/EC of 23 April 2003 introducing detailed specifications as regards the requirements laid down in Council Directive 93/42/EEC with respect to medical devices manufactured utilising tissues of animal origin. In T. C. O. T. E. COMMUNITIES (Ed.), Vol. L 105: 18-23. Official Journal of the European Union.

Bioteck literature

d) On the enzymatic processing system

1) Effectiveness of hydrogen peroxide and electron-beam irradiation treatment for removal and inactivation of viruses in equine-derived xenografts.

Cusinato, R., Pacenti, M., Martello, T., Fattori, P., Morroni, M., & Palù, G. 2016. *J Virol Methods*, 232: 39-46.

2) Deantigenazione con enzimi per biomateriali più sicuri. (Deantigenation with enzymes for safer biomaterials).

Peren, E. 2013. *Tabloid Ortopedia*, 7: 45.

3) An enzymatic deantigenation process allows achieving physiological remodeling and even osteopromoting bone grafting materials.

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4) Application of the enzymatic deantigenation system in the reduction of the bacterial elements in human bone tissue (Applicazione del sistema di deantigenazione enzimatica sulla riduzione di elementi batterici da tessuti ossei umani).

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e) Experimental data

1) A xenogenic bone derivative as a potential adjuvant for bone regeneration and implant osseointegration: an in vitro study.

Bellone, G., Vizio, B., Scirelli, T., & Emanuelli, G. 2016. *Tissue Engineering and Regenerative Medicine*, Accepted.

2) Osteon II versus BioGen in healing of jaw bone defects Ihghaf, N. O. N., Tawfik, M. A., El-Hawary, Y. M., & Mansour, N. A. 2015. *ED-Journal*, 61(July: Part V): 4045.

3) Substitutos ósseos - equino e bovino - associados ou não ao PRP em cavidades mandibulares de cães Beagle: estudo split-mouth qualitativo. (Bone substitutes - equine and bovine - associated or not to PRP in Beagle dog's mandibular cavities: split-mouth qualitative study).

Figueira Junior, H. C., Zanoni, J. N., Pavan, A. J., & Camarini, E. 2014. *ImplantNews*, 11(2): 239-243.

4) Graft materials and bone marrow stromal cells in bone tissue engineering.

Foschi, F., Conserva, E., Pera, P., Canciani, B., Cancedda, R., & Mastrogiacomo, M. 2012. *J Biomater Appl*, 26(8): 1035-49.

5) Osteoplant acts on stem cells derived from bone marrow inducing osteoblasts differentiation.

Lauritano, D., Carinci, F., Zollino, I., Hassanipour, A., Saggese, V., Palmieri, A., Girardi, A., Cura, F., Piras, A., Zamboni, P., & Brunelli, G. 2012. *Eur J Infl*, 10(1-S3): 89-94.

6) Osteoplant® modulates genes expression in adipose derived stem cells during osteoblast differentiation.

Brunelli, G., Sollazzo, V., Carinci, F., Palmieri, A., Girardi, A., & Monguzzi, R. 2011. *Eur J Infl*, 9(3 (S)): 109-113.

7) Hormonal therapy in bone regeneration.

Moreira, A., & Vasconcelos, M. 2011. *Rev Port Estomatol Med Dent Cir Maxilofac*, 52(3): 133-141.

8) New defined cell culture conditions in combination with a 3D-scaffold for MSCs bone tissue engineering.

Tallone, T., Minonzio, G., Panella, S., Bardelli, S., & Soldati, G. *Swiss Stem Cell Foundation, Lugano, Switzerland*, 2011.

9) Osteoplant acts on stem cells derived from peripheral blood.

Sollazzo, V., Palmieri, A., Girardi, A., Zollino, I., Brunelli, G., Spinelli, G., & Carinci, F. 2010. *J Indian Soc Periodontol*, 14(1): 12-7.

10) Effect of bone graft biomaterials at different chemical composition and geometry on human Bone Marrow Stromal Cells osteogenic differentiation.

Conserva, E., Foschi, F., Mastrogiacomo, M., Pera, P., & Cancedda, R. *Poster presentation at the Academy of Osseointegration, 24th Annual Meeting in San Diego, CA, 2009.*

11) Human osteoclast formation and activity on an equine spongy bone substitute.

Perrotti, V., Nicholls, B. M., & Piattelli, A. 2009. *Clin Oral Implants Res*, 20(1): 17-23.

12) Osteo-promoting activity of OSTEOPLANT ANGIOSTAD in vitro.

Bellone, G., Scirelli, T., & Emanuelli, G. 2008. *Minerva Stomatol*, 57(4): 189-98.

13) Equine bone graft versus bovine bone on healing of jaw defects in guinea pigs.

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f) Bioteck scientific leaflets

1) Adesione di osteoclasti umani a sostituti ossei di origine animale resi biocompatibili per via termica o enzimatica. (*Human osteoclasts adhesion to bone substitutes of animal origin made biocompatible through thermic or enzyme-based treatment*). **Literature Review**.

Bioteck_Scientific_Department. 2016. *Bioteck Research Leaflets - Scientific Evidence*, Bioteck Academy Leaflets.

2) Rialzo del seno con sostituti ossei equini a collagene preservato. Qualità e tempi della rigenerazione ossea nel rialzo del seno mascellare eseguito con granuli ossei di origine equina a collagene preservato. (*Sinus lift using collagen preserved equine bone substitutes. Bone regeneration quality and timing after sinus lift performed with collagen preserved equine derived bone granules*).

Di Stefano, D. A. 2016. *Bioteck Dental Surgery Leaflets - Scientific Evidence*, Bioteck Academy Leaflets.

3) Effetti del processo di deantigenazione sull'inattivazione virale in differenti biomateriali per innesto osseo (*Effect of hydrogen peroxide and electron-beam irradiation treatment on virus removal and inactivation*).

Palù, G., Ammirabile, G., Cusinato, R., Pacenti, M., & Pistorello, C. 2012. *Bioteck Scientific Leaflets*, Clinical and Scientific Works Collection.

4) Rialzo del seno mascellare con solo osso autologo o in combinazione con osso equino: studio istologico ed immunoistochimico comparativo su paziente - Estratto da: "*Maxillary sinus augmentation with autologous bone alone or in combination to equine bone : a comparative histological and immunohistochemical study in man*". Poster presentato al Congresso dei Docenti di Discipline Odontostomatologiche 2010.

D'Alimonte, E., Artese, L., Piattelli, A., Di Stefano, D. A., Piccirilli, M., Pagnutti, S., & Perrotti, V. 2011. *Bioteck Scientific Leaflets*, Clinical and Scientific Works Collection.

5) Effetti di differenti biomateriali per innesto osseo su cellule mesenchimali umane - Estratto da: "*Effect of bone graft biomaterials at different chemical composition and geometry on human Bone Marrow Stromal Cells osteogenic differentiation*", abstract presentato come Oral Scientific Presentation all'American Academy of Osseointegration, San Diego, 2009 ed all'European Academy of Osseointegration, Monaco, 2009.

Conserva, E., Foschi, F., Mastrogiacomo, M., Pera, P., & Cancedda, R. 2010. *Bioteck Scientific Leaflets*, Clinical and Scientific Works Collection.

g) Clinical data - dental and maxillo-facial applications

1) Criteri di prevedibilità nell'aumento dei volumi ossei: biomateriali o sostituti ossei? (*Predictability in bone augmentation: biomaterials or bone substitutes?*).

Di Stefano, D. A. 2016. *Implant Tribune Italian Edition*, 1 (Mar): 18-19.

2) Bone formation following sinus augmentation with an equine-derived bone graft: a retrospective histological and histomorphometric study with 36-month follow-up.

Di Stefano, D. A., Gastaldi, G., Vinci, R., Polizzi, E. M., Cinci, L., Pieri, L., & Gherlone, E. 2016. *Int J Oral Maxillofac Implants*, 31(2): 406-412.

3) Guided bone regeneration of an atrophic mandible with a heterologous bone block.

Di Stefano, D. A., Greco, G. B., & Riboli, F. 2016. *Craniomaxillofac Trauma Reconstr*, 09(01): 088-093.



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4) Clinical and biochemical comparison of guided tissue regeneration versus guided tissue regeneration plus low-level laser therapy in the treatment of class II furcation defects: A clinical study.

Dogan, G. E., Aksoy, H., Demir, T., Laloglu, E., Ozyildirim, E., Saglam, E., & Akcay, F. 2016. *J Cosmet Laser Ther*, 18(2): 98-104.

5) Socket preservation using enzyme-treated equine bone granules and an equine collagen matrix: a case report with histological and histomorphometrical assessment.

Leonida, A., Todeschini, G., Lomartire, G., Cinci, L., & Pieri, L. 2016. *J Contemp Dent Pract*, Accepted.

6) Can bone marrow aspirate concentrate change the mineralization pattern of the anterior maxilla treated with xenografts? A preliminary study.

Pelegrine, A. A., Teixeira, M. L., Sperandio, M., Almada, T. S., Kahnberg, K. E., Pasquali, P. J., & Aloise, A. C. 2016. *Contemp Clin Dent*, 7(1): 21-6.

7) Trattamento chirurgico della perimplantite mediante rigenerazione ossea guidata. (Surgical treatment of peri-implantitis by guided bone regeneration).

Tarquini, G. 2016. *Italian Dental Journal*, Anno XI(6): Sect. "Esperienze cliniche in implantologia".

8) Regenerating a vertical bone defect consequent to peri-implantitis: a GBR case with an equine enzyme-treated bone substitute and a resorbable equine collagen membrane.

Tarquini, G. 2016. *DLAJ*, 2: 53-58.

9) Treatment of a post-extractive socket with a lyophilized equine bone paste and implant rehabilitation: clinical, histological and histomorphometric outcome.

Di Stefano, D. A. 2015. *DLAJ*, 1: 13-19.

10) Histomorphometric comparison of enzyme-deantigenic equine bone and anorganic bovine bone in sinus augmentation: a randomized clinical trial with 3-year follow-up.

Di Stefano, D. A., Gastaldi, G., Vinci, R., Cinci, L., Pieri, L., & Gherlone, E. 2015. *Int J Oral Maxillofac Implants*, 30(5): 1161-7.

11) Horizontal-guided bone regeneration using a titanium mesh and an equine bone graft.

Di Stefano, D. A., Greco, G. B., Cinci, L., & Pieri, L. 2015. *J Contemp Dent Pract*, 16(2): 154-62.

12) Clinical and radiographic evaluation of periodontal intrabony defects by open flap surgery alone or in combination with Biocollagen(R) membrane: A randomized clinical trial.

Elkhatat, E. I., Elkhatat, A. E., Azzeghaiby, S. N., Tarakji, B., Beshr, K., & Mossa, H. 2015. *J Int Soc Prev Community Dent*, 5(3): 190-8.

13) Comparison of autologous and heterologous bone graft stability effects for filling maxillary bone gap after Le Fort I osteotomy.

Eser, C., Gencel, E., Gokdogan, M., Kesiktaş, E., & Yavuz, M. 2015. *Adv Clin Exp Med*, 24(2): 341-8.

14) Avaliação clínica, tomográfica e histomorfométrica do uso de enxerto ósseo xenógeno em bloco para aumento de espessura em maxila. (Utilization of xenogenic bone blocks for maxillary augmentation, clinical, radiographic and histomorphometric analysis).

Pelegrine, A. A., Teixeira, M. L., Pasquali, P. J., Orosz, J. E., Sperandio, M., & Aloise, A. C. 2015. *ImplantNews (Latino-Americana)*, 12(6a-PBA): 145-150.

15) Morphometric changes of the socket after site preservation using Nanobone and collagen membrane or Stypro versus extraction alone.

Salahi, S., Etemadifar, R., & Moosaali, F. 2015. *J Dent Biomater*, 2(2): 54-60.

16) Odontogenic myxoma: a case of conservative surgical approach for an adolescent patient.

Samur Ergüven, S., Yıldırım, B., Çakır, M., & Sancar Ataç, M. 2015. *Acta Odontol Turc*, 32(1): 31-35.

17) [THESIS]

Utilização de osso equino comparado ao enxerto autógeno intra-oral na região de pré-maxila: avaliação volumétrica. Andreucetti d'Oliveira, E. M. 2014. Universidade Guarulhos.

18) A comparative histological and histomorphometric study of maxillary sinus augmentation using different graft materials Bakry, S. A. S. A., & Khairy, N. M. 2014. *ED-Journal*, 60(July: Part IV): 3585.

19) Implantologia a carico immediato con impianti postestrattivi root-form e contestuale rigenerazione ossea: caso clinico. (Immediate loading implantology on post-extractive root-form implants and concomitant bone regeneration: case report).

Di Stefano, D. A., Andreasi Bassi, M., Ardigò, M., & Greco, G. B. 2014. *Dental Cadmos*, 82(10): 721-728.

20) Effect of low-level laser on guided tissue regeneration performed with equine bone and membrane in the treatment of intrabony defects: a clinical study.

Dogan, G. E., Demir, T., & Orbak, R. 2014. *Photomed Laser Surg*, 32(4): 226-31.

21) Efficacy of Platelet Rich Fibrin (PRF) membrane in immediate dental implant.

El Kenawy, M. H., El Shinnawi, U. M., Salem, A. M., & Ahmed, F. H. 2014. *Mansoura J Dent*, 1(3): 78-84.

22) The use of flexible xenogenic bone substitutes for maxillary sinus floor augmentation.

Elmonem, K. A., & Katamish, M. A. 2014. *ED-Journal*, 60(January: Part II): 415.

23) The histological analysis of newly bone generated using the Osteopant Flex sheets for maxillary sinus floor augmentation Katamish, M., Elmonem, K. A., Abdul Mohsen, K., & Barakat, A. 2014. *ED-Journal*, 60(October: Part V): 4877.

24) [BOOK]

3D radiology in dentistry.

Ambu, E., Ghiretti, R., & Laziosi, R. 2013. Milano: Elsevier, 68-70.

25) Treatment of a ridge atrophy and two peri-implant defects with equine bone and an equine pericardium membrane: clinical and histological outcome.

Di Stefano, D. A. 2013. *Stomatolog*, 19(1): 32-37.

26) [BOOK]

Técnicas de Regeneración y Reconstrucción en Cirugía Implantar. (Regenerative and reconstructive techniques in implant surgery).

Di Stefano, D. A., & Cazzaniga, A. 2013. Venezuela: Amolca,

27) The use of cortical heterologous sheets for sinus lift bone grafting: a modification of Tulasne's technique with 7-year follow-up.

Di Stefano, D. A., Cazzaniga, A., Andreasi Bassi, M., Ludovichetti, M., Ammirabile, G., & Celletti, R. 2013. *Int J Immunopathol Pharmacol*, 26(2): 549-56.



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28) GBR con l'utilizzo di membrane e inserimento di un impianto – Modifica del diametro osseo tramite split crest e inserimento di un impianto – Innesto osseo a blocco protetto da membrana e inserimento di un impianto. (GBR through membrane application and implant placement – Modification of bone diameter by split-crest and implant placement – Membrane covering of bone block graft and implant placement).

Froscchi, M. 2013. *Journal of Osseointegration*, 5(1): 31-34.

29) Clinical and radiographic evaluation of Bio-Gen with biocollagen compared with Bio-Gen with connective tissue in the treatment of class II furcation defects: a randomized clinical trial.

Jenabian, N., Haghafar, S., Maboudi, A., & Bijani, A. 2013. *J Appl Oral Sci*, 21(5): 422-9.

30) Effect of platelet rich plasma on bone regeneration in maxillary sinus augmentation (randomized clinical trial).

Khairy, N. M., Shendy, E. E., Askar, N. A., & El-Rouby, D. H. 2013. *Int J Oral Maxillofac Surg*, 42(2): 249-55.

31) [BOOK]

Rigenerazione dei tessuti molli in implantologia. (Soft tissues regeneration in implantology).

Leonida, A. 2013. Milano: Edi-Ermes,

32) Rigenerazione dei tessuti molli perimplantari: case report (Regeneration of peri-implant soft tissues: a case report).

Leonida, A., Di Meo, S., Todeschini, G., & Baldoni, M. 2013. *Implant Tribune Italian Edition*, November: 28-30.

33) Managing an extreme peri-implantitis.

Materni, A. 2013. *Minerva Stomatol*, 62(9): 295-305.

34) Managing a vestibular infra-bony periodontal defect in the aesthetic zone through bone regeneration: a case report.

Materni, A. 2013. *Stomatolog*, 19(3-4): 30-35.

35) Case of severe bone atrophy of the posterior maxilla rehabilitated with blocks of equine origin bone: histological results.

Pistilli, R., Signorini, L., Pisacane, A., Lizio, G., & Felice, P. 2013. *Implant Dent*, 22(1): 8-15.

36) Evaluation of horizontal ridge augmentation using beta tricalcium phosphate and demineralized bone matrix: A comparative study.

Shalash, M. A., Rahman, H. A., Azim, A. A., Neemat, A. H., Hawary, H. E., & Nasry, S. A. 2013. *J Clin Exp Dent*, 5(5): e253-9.

37) Evaluation of two treatment modalities for patients with combination syndrome suffering from narrow anterior maxilla.

Tamer, O. I., & Riham, O. I. 2013. *Life Sci J*, 10(2): 2199-2210.

38) Immediate non-functional loading of single tooth unit Implants into avulsed tooth sockets following ridge augmentation in the anterior maxilla: a case series.

Vijayanathan, R., Anil Kumar, S., Datana, S., & Kosala, M. 2013. *J Maxillofac Oral Surg*, 12(2): 203-9.

39) Bone splitting con espansori conici filettati: nuove prospettive (Bone splitting with threaded conical expanders: new perspectives).

Andreasi Bassi, M., & Di Stefano, D. A. 2012. *IOS*, 11(5-S1): 140-153.

40) Treatment of mandibular atrophy by an equine bone substitute: an immunohistochemical study in man.

Artese, L., Di Stefano, D. A., Iezzi, G., Piccirilli, M., Pagnutti, S., di Gregorio, G., & Perrotti, V. 2012. *IOS*, 11(5 Supplement 1): 81-89.



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41) Treatment of a bone defect consequent to the removal of a periapical cyst with equine bone and equine membranes: clinical and histological outcome.

Di Stefano, D. A., Andreasi Bassi, M., Cinci, L., Pieri, L., & Ammirabile, G. 2012. *Minerva Stomatol*, 61(11-12): 477-90.

42) [BOOK]

Tecniche rigenerative e ricostruttive in chirurgia implantare. (Regenerative and reconstructive techniques in implant surgery).

Di Stefano, D. A., & Cazzaniga, A. 2012. Milano: Elsevier,

43) Hydrodynamic ultrasonic maxillary sinus lift: review of a new technique and presentation of a clinical case.

Velazquez-Cayon, R., Romero-Ruiz, M. M., Torres-Lagares, D., Perez-Dorao, B., Wainwright, M., Abalos-Labruzzi, C., & Gutierrez-Perez, J. L. 2012. *Med Oral Patol Oral Cir Bucal*, 17(2): e271-5.

44) Sinus lift with autologous bone alone or in addition to equine bone: an immunohistochemical study in man.

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45) CT evaluation of an alveolar ridge augmentation with bovine-derived xenograft: a case report.

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49) Maxillary sinus lift with a collagenic equine heterologous bone substitute. Histomorphometric analysis.

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50) [BOOK]

Prelievi ossei nelle ricostruzioni pre e perimplantari. (Bone collection in pre and peri-implant reconstructions).

Di Stefano, D. A., & Cazzaniga, A. 2011. Milano: Elsevier,

51) GBR-based restoration of a peri-implant defect with an equine flexible cortical bone membrane and heterologous equine bone.

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53) GBR con osso eterologo e membrana non riassorbibile. (GBR performed with heterologous bone and non-resorbable membrane).

Monforte, M., Di Stefano, D. A., Cazzaniga, A., Pagnutti, S., & Savin, G. 2011. *Dental Clinics (Speciale)*, 1: 4-6.

54) Incremento di un mascellare superiore atrofico con innesti a blocco di osso eterologo di origine equina per riabilitazione con protesi fissa su impianti: un caso clinico. (Augmentation of atrophic upper maxilla using equine derived heterologous bone blocks. Rehabilitation with a stable prostheses on the implants. A clinical case).

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D'Alimonte, E., Artese, L., Piattelli, A., Di Stefano, D. A., Piccirilli, M., Pagnutti, S., & Perrotti, V. *Poster presentation, 17th Collegio Dei Docenti, Chieti (Italy), April 21-23, 2010.*

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62) Utilization of an equine membrane and an equine bone replacement graft in the treatment of deep intrabony defects (two case reports).

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Rinaldi, M., & Mottola, A. 2009. Milano: Elsevier, 453-460.

64) [BOOK]

Chirurgia ossea ricostruttiva pre- e perimplantare. (Reconstructive pre and peri-implant bone surgery).

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Santagata, M., Guariniello, L., D'Andrea, A., & Tartaro, G. 2008. *J Oral Implantol*, 34(6): 319-24.

70) Maxillary sinus lift through heterologous bone grafts and simultaneous acid-etched implants placement. Five year follow-up.

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72) Un nuovo approccio biologico al rialzo di seno mascellare. (A new biological approach to sinus lift).

Ludovichetti, M., Pagnutti, S., & Pennelli, N. 2007. *Quintessenza*, 23: 7-13.

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74) Valutazione clinica della rigenerazione ossea guidata nel rialzo del seno mascellare mediante innesto di materiale eterologo e contestuale inserimento di impianti. Follow up di 3 anni. (Clinical evaluation of guided bone regeneration in sinus lift through heterologous bone grafts and contemporary implant placement).

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75) Riabilitazione pre-protetica morfofunzionale di difetti ossei con acceleratore osteogenico Osteoplant Activagen. Case report. (Morpho-functional pre-prosthetic rehabilitation with the osteogenic accelerator Osteoplant Activagen. A case report).

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78) [BOOK]

Prelievi ossei intra ed extraorali. Tecniche ambulatoriali e in day surgery. (Collecting bone intra- and extraorally. Private facility and day surgery techniques).

Di Stefano, D. A., & Cazzaniga, A. 2003. Milan: Masson, 65-68.

h) Bioteck dental and maxillo-facial applications leaflets

1) La gestione dell' alveolo post-estrattivo. Innesto di alveoli postestrattivi con un sostituto osseo a lento riassorbimento in un caso di mascella parzialmente edentula con corticale vestibolare sottile. (Post-extractive socket management. Grafting of slow-resorbable bone graft in post-extractive sockets in a case of partially edentulous maxilla with thin cortical vestibular wall).

Di Stefano, D. A. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

2) Innesto ad onlay con prelievo da branca. Aumento di cresta orizzontale con prelievo da branca omolaterale. (Onlay augmentation with autologous bone from the mandibular ramus. Horizontal crestal augmentation).

Di Stefano, D. A. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

3) La gestione dell'alveolo post-estrattivo. Impianto post-estrattivo differito e rigenerazione perimplantare con sostituto osseo di origine equina miscelato ad osso autologo e membrana in pericardio. (Post-extractive socket management. Deferred post-extraction implant placement and peri-implant regeneration using equine derived bone substitute mixed with autologous bone and pericardium membrane).

Di Stefano, D. A. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

4) Utilizzo di una matrice collagenica nella socket preservation. La guarigione dei tessuti molli negli interventi di socket preservation può essere favorita utilizzando una matrice collagenica. (Collagen matrix in socket preservation. Soft tissue healing after socket preservation could be favored by applying a collagen matrix).

Leonida, A. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

5) Trattamento di difetti infraossei con innesti ossei in gel e membrana in pericardio. Un approccio più semplice agli interventi di rigenerazione ossea parodontale. (Treatment of ontrabone defects with bone graft in gel format and pericardium membrane. A simplest approach to periodontal bone regeneration procedures).

Materni, A. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

6) Rigenerazione in seguito a perimplantite. Guided bone regeneration (GBR) di un difetto osseo verticale conseguente a perimplantite con osso equino cortico-spongioso deantigenato e membrana in collagene. (Regeneration after peri-implantitis. GBR of a vertical bone defect related to peri-implantitis, using deantigenised cortical-cancellous equine bone and collagen membrane) Tarquini, G. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

7) Trattamento delle recessioni gengivali. Lembo trapezoidale ad avanzamento coronale (CAF) con innesto di matrice collagenica di origine equina. (Gingival recession treatment. Trapezoidal coronally advanced flap (CAF) in combination with equine-derived collagenic matrix graft).

Tarquini, G. 2016. *Bioteck Dental Surgery Leaflets*, Bioteck Academy Leaflets.

8) Innesto di blocchi ossei spongiosi equini in un caso di ipoplasia facciale. Le correzioni attraverso Le Fort III delle deformità congenite del volto possono essere affrontate con l'impiego di sostituti ossei a blocco. (Cancellous bone blocks grafting in a case of facial hypoplasia).

Verrina, G. 2016. *Bioteck Maxillo Facial Surgery Leaflets*, Bioteck Academy Leaflets.



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9) Onlay orizzontale con l'utilizzo di blocco osseo eterologo e membrana riassorbibile in pericardio in associazione ad un grande rialzo del seno mascellare (Horizontal onlay using a heterologous bone block and resorbable pericardium membrane in association with maxillary sinus lift).

Materni, A. 2011. *Bioteck Dental Surgery Leaflets*, Clinical and Scientific Works Collection.

10) GBR verticale con l'utilizzo di blocco osseo eterologo e membrana non riassorbibile (Vertical GBR with heterologous bone block and a non-resorbable membrane).

Monforte, M. 2010. *Bioteck Dental Surgery Leaflets*, Clinical and Scientific Works Collection.

i) Clinical data – orthopedic and neurosurgery applications

1) A novel equine-derived pericardium membrane for dural repair: A preliminary, short-term investigation.

Centonze, R., Agostini, E., Massaccesi, S., Toninelli, S., & Morabito, L. 2016. *Asian J Neurosurg*, 11(3): 201-5.

2) ChondroGrid® Medical Device. Clinical Evaluation Report: safety and performance profile.

Internal_Report. 2016.

3) Dispositivo Medico ChondroGrid®. Report di valutazione clinica: profilo di efficacia e sicurezza.

Internal_Report. 2016.

4) One-step cartilage repair in the knee: Collagen-covered microfracture and autologous bone marrow concentrate. A pilot study.

Enea, D., Cecconi, S., Calcagno, S., Busilacchi, A., Manzotti, S., & Gigante, A. 2015. *Knee*, 22(1): 30-5.

5) Nostra esperienza sul trattamento delle pseudoartrosi delle ossa lunghe con sostituti ossei e PRP. (The treatment of long-bone pseudarthrosis of with bone substitutes and PRP: our experience).

Di Maggio, B., Grazioli, A., Abate, G., & Italiano, M. 2013. *Archivio di Ortopedia e Reumatologia*, 124(1-3): 12-14.

6) Cartilage regeneration revisited: entering of new one-step procedures for chondral cartilage repair.

Freyman, U., Petersen, W., & Kaps, C. 2013. *OA Orthopaedics*, June 05(1): 1-6.

7) Open-wedge high tibial osteotomy: comparison between manual and computer-assisted techniques.

Iorio, R., Pagnottelli, M., Vadalà, A., Giannetti, S., Di Sette, P., Papandrea, P., Contedua, F., & Ferretti, A. 2013. *Knee Surg Sports Traumatol Arthrosc*, 21(1): 113-9.

8) Arthroscopic knee cartilage repair with covered microfracture and bone marrow concentrate.

Gigante, A., Cecconi, S., Calcagno, S., Busilacchi, A., & Enea, D. 2012. *Arthrosc Tech*, 1(2): e175-80.

9) Use of collagen scaffold and autologous bone marrow concentrate as a one-step cartilage repair in the knee: histological results of second-look biopsies at 1 year follow-up.

Gigante, A., Calcagno, S., Cecconi, S., Ramazzotti, D., Manzotti, S., & Enea, D. 2011. *Int J Immunopathol Pharmacol*, 24(1 Suppl 2): 69-72.

10) Equine-derived bone substitutes in orthopedics and traumatology: authors' experience.

Santini, S., Barbera, P., Modena, M., Schiavon, R., & Bonato, M. 2011. *Minerva Chir*, 66(1): 63-72.

11) Equine bone tissue in acetabular revision: our experience.

Sessa, G., Costarella, L., Pavone, V., Graceffa, A., Evola, G., & Evola, F. R. 2010. *Minerva Ort*, 61(6): 469-476.



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12) Sistemi di osteointegrazione omologa versus eterologa (Osteoplast). (Homologous versus heterologous (Osteoplast) osseointegration systems).

Biggi, F., D'Antimo, C., & Trevisani, S. 2006. *Aggiornamenti CIO*, 12: S35-S36.

13) La derotazione della tuberosità tibiale nel trattamento del malallineamento dell'apparato estensore. (The derotation of the tibial tuberosity in the misalignment of the extensor apparatus).

Santoriello, P., De Nicola, S., Feletto, L., & De Nicola, U. *Oral Presentation. OTODI Congress, May 25-27, 2006.*

14) The use of heterologous bone replacement together with platelet growth factor during vertebral surgery: critical analysis and preliminary results.

Ascani, C., Tornatore, I., & Ascani, E. 2005. *J Bone Joint Surg Br*, 87-B(SUPP II): 172.

15) L'osteointegrazione eterologa (Osteoplast) associata a gel piastrinico nelle perdite di sostanza ossea. (Heterologous (Osteoplast) osseointegration, associated with platelet gel in bone losses).

Biggi, F., Carnielli, F., Dalla Vestra, F., & Trevisani, S. *Proceedings SIOT 2005.*

16) Bone substitutes Pyrost and Osteoplast: 5 years of clinical experience in 64 patients.

Pisano, L., Stopponi, M., Costarelli, L., & Ferretti, G. 2005. *J Bone Joint Surg Br*, 87-B(SUPP II): 196.

17) L'utilizzo di biomateriali ossei eterologhi in associazione ai fattori di crescita di derivazione piastrinica in chirurgia vertebrale. Analisi critica e risultati preliminari. (Using heterologous bone biomaterials associated with platelet-derived growth factors in vertebral surgery. Preliminary results and critical analysis).

Ascani, C., Tornatore, I., & Ascani, E. *Proceedings SIOT, 2004.* 46-47

18) L'utilizzo di innesti ossei omologhi ed eterologhi in patologia protesica. (Using homologous and heterologous bone grafts in prosthetic pathology).

Astorri, P., Rendine, M., Fredella, N., Bughrara, F., & Santori, F. S. *Proceedings SIOT, 2004.* 79

19) Homologous osseointegration (bone banking) and heterologous (Osteoplast) in hip revision surgery.

Biggi, F., D'Antimo, C., Dalla Vestra, F., Maffei, A., Trevisani, S., & Scorrano, A. 2004. *G.I.O.T.*, 30((S1)): S89-S93.

20) Rara associazione di condroma e cisti aneurismatica: osservazione di un caso tibiale trattato con tessuto osseo deantigenato di origine animale. (A rare association of a chondroma and an aneurismatic cyst: a tibial case treated with animal deantigenic bone) Mazzone, V., & Gozzi, G. *Proceedings SIOT, 2004.* 16

21) I sostituti ossei Pyrost ed Osteoplast in ortopedia e traumatologia: risultati a cinque anni in 64 casi. (Pyrost and Osteoplast bone substitutes: five years results in 64 cases).

Pisano, L., Stopponi, M., Costarelli, L., & Ferretti, G. *Proceedings SIOT, 2004.* 51

j) Bioteck orthopedic & neurosurgery leaflets

1) Riparazione one-step delle lesioni condrali focali del ginocchio. Trattamento dei difetti cartilaginei del ginocchio con microfratture, matrice collagenica equina e concentrato midollare da cresta iliaca. (One-step repairing of knee focal chondral lesions. Treatment of the chondral lesions of the knee by microfractures, equine collagenic matrix and iliac crest derived bone marrow).

Gigante, A. 2016. *Bioteck Orthopedic Leaflets*, Bioteck Academy Leaflets.

2) **La revisione di protesi d'anca con sostituti ossei di origine equina. Diversi formati di sostituti ossei equini possono essere d'aiutolo all'ortopedico nella revisione della protesi d'anca. (Equine bone substitutes in total hip arthroscopy revision. Several equine bone substitutes formats can be used in the hip arthroscopy revision)** Marcucci, M. 2016. *Bioteck Orthopedic Leaflets*, Bioteck Academy Leaflets.

3) **Plastica durale con membrana in pericardio equino. Asportazione chirurgica di un meningioma della convessità parietale destra e ricostruzione durale con membrana in pericardio Heart. (Duraplasty with equine pericardium. Surgical removal of convexity meningioma of the right parietal area and duraplasty with Heart pericardium membrane).**

Morabito, L. 2016. *Bioteck Neurosurgery Leaflets*, Bioteck Academy Leaflets.

4) **La derotazione della tuberosità tibiale attraverso cunei diedri. Il trattamento delle sindromi femoro-rotulee causate da difetti torsionali conseguenti al malallineamento dell'apparato estensore. (Utilization of bone dihedron in the tibial tuberosity derotation).**

Santoriello, P. 2016. *Bioteck Orthopedic Leaflets*, Bioteck Academy Leaflets.

k) Interviews and company communications

1) **Sostituti ossei: una scelta razionale - Intervista al Prof. D.A. Di Stefano. (Bone substitutes: a rational choice - Interview to Prof. D.A. Di Stefano).**

Gatto, P. 2016. *Dental Tribune - Italian Edition*, Anno XII(2): 9.



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