Bioteck Medical Devices – References
Lines Bio-Gen – Biocollagen - Osteoplant

Updated on April 21st, 2016

Index

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.
Regazzoni, C., Winterhalter, K. H., & Rohrer, L. 2001. *Biochem Biophys Res Commun*, 283(2): 316-22.

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.
Paralkar, V. M., Nandedkar, A. K., Pointer, R. H., Kleinman, H. K., & Reddi, A. H. 1990. *J Biol Chem*, 265(28): 17281-4.

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.
Zhang, J. 2011. *J Biomol Struct Dyn*, 29(2): 369-77.

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. (D*eantigenation 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.
Pagnutti, S., Maggi, S., Di Stefano, D. A., & Ludovichetti, M. 2007. *Biotechnol. & Biotechnol. Eq.*, 4: 491-495.

4) Application of the enzymatic deantigenation system in the reduction of the bacterial elements in human bone tissue.
Carlone, N. A., Tullio, V., Mandras, N., Roana, J., & Maggi, S. 2006. *Rivista Italiana di Tissue Banking*, 1: 28-31.

e) Experimental data

.

1) 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.

2) 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.

3) 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.

4) 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.

5) 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.

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

7) 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.

8) 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.

9) 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.

10) 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.

11) Osteo-promoting activity of OSTEOPLANT ANGIOSTAD in vitro.
Bellone, G., Scirelli, T., & Emanuelli, G. 2008. *Minerva Stomatol*, 57(4): 189-98.

12) Equine bone graft versus bovine bone on healing of jaw defects in guinea pigs.
El-Kenawy, M. H., Zaher, A. R., & El-Monem, H. A. 2006. *ED-Journal*, 52(1.2): 449.

f) Bioteck scientific leaflets

.

1) 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.

2) 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 applications of Bio-Gen granules/blocks, Osteoplant Flex and Osteoplant DBM alone or in combination with Bioteck membranes

.

1) 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.

2) 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.

3) 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., Kesiktas, E., & Yavuz, M. 2015. *Adv Clin Exp Med*, 24(2): 341-8.

4) 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.

5) 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.

6) 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.

7) 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.

8) 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.

9) The histological analysis of newly bone generated using the Osteoplant 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.

10) [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,

11) 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.

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

13) 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.

14) 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.

15) [BOOK]
Tecniche rigenerative e ricostruttive in chirurgia implantare. (*Regenerative and reconstructive techniques in implant surgery*).
Di Stefano, D. A., & Cazzaniga, A. 2012. Milano: Elsevier,

16) 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.

17) CT evaluation of an alveolar ridge augumentation with bovine-derived xenograft: a case report.
Borcic, J., Barbalic, A., & Ćoza, M. *International Journal of Oral and Maxillofacial Surgery - Proceedings of 20th International Conference on Oral and Maxillofacial Surgery - Santiago, Chile, 1-4.11.2011*,2011.

18) A comparative clinical study between bone onlay graft and connective tissue graft in reconstruction of Interdental papillae between two implants.
Dardir, A. M., Ul-Dahab, O. A., Abuo-Elfadl, K., El Rahman, R. A., & Shoeib, M. 2011. *Journal of American Sciences*, 7(9): 22-32.

19) Lateral ridge augmentation using an equine flex bone block infused with recombinant human platelet-derived growth factor BB: a clinical and histologic study.
De Angelis, N., & Scivetti, M. 2011. *Int J Periodontics Restorative Dent*, 31(4): 383-8.

20) [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,

21) GBR-based restoration of a peri-implant defect with an equine flexible cortical bone membrane and heterologous equine bone.
Di Stefano, D. A., Vinci, G., Cremaschini, S., Pagnutti, S., & Gherlone, E. F. 2011. *IOS*, 46: 1-8.

22) Vertical ridge augmentation using a flexible heterologous cortical bone sheet: three-year follow-up.
Ludovichetti, M., Di Stefano, D. A., Pagnutti, S., Vaccari, E., Ludovichetti, F. S., & Celletti, R. 2011. *Int J Periodontics Restorative Dent*, 31(4): 401-7.

23) [THESIS]
Use of BioGen putty as a grafting material in immediate implant placement in mandibular molar region. Abozekry, A. M. K. 2010. Cairo University.

24) Modified ridge splitting technique using conical space main-tainers for delayed implant placement in highly atrophic maxillae.
Cabanes-Gumbau, G., & Silvestre, F. J. 2010. *J Clin Exp Dent*, 2(3): 127-132.

25) Maxillary sinus augmentation with autologous bone alone or in combination to equine bone: a comparative histological and immunohistochemical study in man.
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.

26) Comparison of postoperation bone defects healing of alveolar processes of maxilla and mandible with the use of Bio-Gen and Bio-Oss.
Śmieszek-Wilczewska, J., Koszowski, R., & Pająk, J. 2010. *J Clin Exp Dent*, 2(2): e60-66.

27) Alveolar ridge regeneration with equine spongy bone: a clinical, histological, and immunohistochemical case series.
Di Stefano, D. A., Artese, L., Iezzi, G., Piattelli, A., Pagnutti, S., Piccirilli, M., & Perrotti, V. 2009. *Clin Implant Dent Relat Res*, 11(2): 90-100.

28) Sinus implants stabilization in Misch IV Class by means of S.I.S. device: A Clinical Study.
Grandi, C., & Pacifici, L. 2009. *Oral Implantol (Rome)*, 2(4): 2-10.

29) Utilization of an equine membrane and an equine bone replacement graft in the treatment of deep intrabony defects (two case reports).
Lauš Šošić, M., Ivić-Kardum, M., & Božić, D. 2009. *J Clin Periodontol*, 36(s9): 214.

30) [BOOK]
Superamento degli ostacoli anatomici in chirurgia implantare. Implantologia computer-guidata – Innesti ossei. (*Passing of anatomical obstacles in implant surgery. Computer-guided implantology - Bone grafts*).
Rinaldi, M., & Mottola, A. 2009. Milano: Elsevier, 453-460.

31) [BOOK]
Chirurgia ossea ricostruttiva pre- e perimplantare. (*Reconstructive pre and peri-implant bone surgery*).
Di Stefano, D. A., & Cazzaniga, A. 2008. Milano: Elsevier,

32) Two stage surgery in IV Class of Misch with SIS device: a case report.
Grandi, C., & Pacifici, L. 2008. *Oral Implantol (Rome)*, 1(3-4): 131-6.

33) Treatment of infrabony defect using xenogenic material and membrane in the form of hydrogel. Case report.
Kuiš, D., Jorgić-Srdjak, K., & Božić, D. *Proceedings of the Congress: IV. međunarodni kongres Hrvatskog stomatološkog društva - Zagreb, Hrvatska, 13-15.11.2008.*,2008.

34) Regenerative surgical therapy of perio-endo lesion - case report.
Lauš Šošić, M., Ivić-Kardum, M., Božić, D., & Pažin, B. *Proceedings of the Congress: IV. međunarodni kongres Hrvatskog stomatološkog društva-Zagreb, Hrvatska, 13-15.11.2008*,2008.

35) Diagnosis and treatment of mandibular extraoral sinus of periodontal origin in a 9-year-old boy: a case report.
Ozdemir, A., Guven, G., Dilsiz, A., & Sencimen, M. 2008. *J Indian Soc Pedod Prev Dent*, 26 Suppl 2: S76-8.

36) A modified crestal ridge expansion technique for immediate placement of implants: a report of three cases.
Santagata, M., Guariniello, L., D'Andrea, A., & Tartaro, G. 2008. *J Oral Implantol*, 34(6): 319-24.

37) Maxillary sinus lift through heterologous bone grafts and simultaneous acid-etched implants placement. Five year follow-up.
Stievano, D., Di Stefano, D. A., Ludovichetti, M., Pagnutti, S., Gazzola, F., Boato, C., & Stellini, E. 2008. *Minerva Chir*, 63(2): 79-91.

38) Rialzo di seno mascellare e riabilitazione implantare. (*Maxillary sinus lift and implant rehabilitation*).
Di Stefano, D. A., Cazzaniga, A., & Pagnutti, S. 2007. *Dental Cadmos*, 2: 33-39.

39) 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.

40) Intervento complesso di ricostruzione mascellare. (*Complex maxillary reconstruction, a case report*).
Di Stefano, D. A., Cazzaniga, A., & Pagnutti, S. 2006. *IOS*, 5: 49-57.

41) 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*).
Stievano, D., Gazzola, F., Giugni, A., Stellini, E., & Boato, C. *Proceedings of 13° Congresso Nazionale del "Collegio dei Docenti di Odontoiatria", Roma 5-8 Aprile*,2006.

42) Riabilitazione pre-protesica morfofunzionale di difetti ossei con acceleratore osteogenico Osteoplant Activagen. Case report. (*Morpho-functional pre-prosthetic rehabilitation with the osteogenic accelerator Osteplant Activagen. A case report*).
Stievano, D., Gazzola, F., Stellini, E., & Boato, C. *Proceedings of 13° Congresso Nazionale del "Collegio dei Docenti di Odontoiatria", Roma 5-8 Aprile* 2006.

43) Subantral filling by deantigenated heterologous bone and immediate fixture placement.
De Biase, A., Guerra, F., Cipriano, L., Lamazza, L., & Tucci, E. 2005. *Minerva Stomatol*, 54(1-2): 99-108.

44) Complete reconstruction of edentulous mandible and maxilla using the Q-Implant System and applying the two-phase implantation with early loading. .
Krezlik, A., & Krezlik, E. 2004. *Oral Implant*, 4: 36-40.

45) [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) Clinical data – dental applications of Bioteck membranes in combination with other biomaterials

.

1) 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.

2) 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.

3) 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.

4) 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.

5) 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.

6) 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.

7) 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.

8) 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.

9) Immediate non-functional loading of single tooth uniti 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.

10) 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.

11) 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.

12) 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.

13) Sinus lift with autologous bone alone or in addition to equine bone: an immunohistochemical study in man.
Artese, L., Piattelli, A., Di Stefano, D. A., Piccirilli, M., Pagnutti, S., D'Alimonte, E., & Perrotti, V. 2011. *Implant Dent*, 20(5): 383-8.

14) CT evaluation of an alveolar ridge augumentation with bovine-derived xenograft: a case report.
Borcic, J., Barbalic, A., & Ćoza, M. *International Journal of Oral and Maxillofacial Surgery - Proceedings of 20th International Conference on Oral and Maxillofacial Surgery - Santiago, Chile, 1-4.11.2011*,2011.

15) Maxillary sinus lift with a collagenic equine heterologous bone substitute. Histomorphometric analysis.
Di Stefano, D. A., Andreasi Bassi, M., Savin, G., Ludovichetti, M., & Pagnutti, S. 2011. *IOS*, 10(5): 1-8.

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., Massaccessi, S., Toninelli, S., & Morabito, L. 2016. *Asian J Neurosurg*, Accepted.

2) 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.

3) 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.

4) Cartilage regeneration revisited: entering of new one-step procedures for chondral cartilage repair.
Freymann, U., Petersen, W., & Kaps, C. 2013. *OA Orthopaedics*, June 05(1): 1-6.

5) 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., Conteduca, F., & Ferretti, A. 2013. *Knee Surg Sports Traumatol Arthrosc*, 21(1): 113-9.

6) 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.

7) 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.

8) 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.

9) 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.

10) Sistemi di osteointegrazione omologa versus eterologa (Osteoplant). (*Homologous versus heterologous (Osteoplant) osseointegration systems*).
Biggi, F., D'Antimo, C., & Trevisani, S. 2006. *Aggiornamenti CIO*, 12: S35-S36.

11) 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.

12) 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.

13) L'osteointegrazione eterologa (Osteoplant) associata a gel piastrinico nelle perdite di sostanza ossea. (*Heterologous (Osteoplant) osseointegration, associated with platelet gel in bone losses*).
Biggi, F., Carnielli, F., Dalla Vestra, F., & Trevisani, S. *Proceedings SIOT* 2005.

14) Bone subsitutes Pyrost and Osteoplant: 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.

15) 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

16) 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

17) Homologous osseointegration (bone banking) and heterologous (Osteoplant) 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.

18) 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

19) I sostituti ossei Pyrost ed Osteoplant in ortopedia e traumatologia: risultati a cinque anni in 64 casi. (*Pyrost and Osteoplant bone substitutes: five years results in 64 cases*).
Pisano, L., Stopponi, M., Costarelli, L., & Ferretti, G. *Proceedings SIOT*,2004. 51