

- 2014 Travel Grant Congresso European Academy of Osseointegration, Roma, 25-27 Settembre 2014.
- 2013 Premio di ricerca R. Cornellini, Premium Day, Padova, 16 Giugno 2013.
- 2010 Travel Grant European Academy of Osseointegration Meeting Glasgow, UK, Ottobre 2010.
- 2007 American Society of Bone and Mineral Research, Young Investigator Award, 2007 ASBMR Annual Meeting, Honolulu.
- 2002 Dental Student Scholarship Award, Pierre Fauchard Academy

### **Attività di relatore a convegni nazionali ed internazionali**

**Galli C.**, Piergianni M., Parisi L., Smerieri A., Graiani G., Ghiacci G., Lumetti S., Macaluso GM. (2015) Novel aptamer-based implantable scaffolds for tissue regeneration. *Oral presentation, Rimini, Congresso Internazionale della Società Italiana di Parodontologia, 6-8 Marzo 2015.*

**Galli C.**, *La delezione di un distal enhancer del gene RANKL riduce il rimodellamento osseo ed aumenta la massa ossea. Oral presentation, Oral Science 1° PhD Day, Roma, 19 Dicembre 2014.*

**Galli C.**, Lumetti S., Manfredi E., Smerieri A., Macaluso GM., Piergianni M. (2014) Novel biomimetic surfaces through protein selective adsorption via immobilised anti-Fibronectin aptamers. *Clin Oral Implant Res 25 (Suppl. 10), 58. Oral presentation, EAO Meeting Rome, Italy 2014.*

**Galli, C.**, Piemontese, M., Passeri, G., Lumetti, S., and Macaluso, G. (2011). Lithium Chloride effects on osteoblast differentiation are enhanced by hydrophilic titanium surfaces. *Clin Oral Implant Res 22, 923. Oral presentation, EAO Meeting Athens, Greece 2011.*

**Galli, C.**, Passeri, G., Piemontese, M., Lumetti, S., Manfredi, E., Carra, M., and Macaluso, G. (2010). Rough titanium topography upregulates FoxO/beta-catenin signaling in mesenchymal cells and protects them from oxidative stress. *Clin Oral Implant Res 21, 999. Oral presentation, EAO Meeting Glasgow, UK, 2010.*

**Galli, C.**, Macaluso, G.M., Bonanini, M. (2010) Un rivestimento dendrimerico innovativo aumenta il differenziamento ed amplifica la stimolazione di Wnt signaling in cellule mesenchimali su superfici ruvide. *Oral presentation, Expo di Autunno. Milano, 26-27 novembre 2010*

**Galli, C.**, Macaluso, G.M., Bonanini, M. (2009). La topografia delle superfici implantari controlla la via di segnale canonica di Wnt in cellule mesenchimali. *Oral presentation, Expo di Autunno. Milano, 27-28 novembre 2009.*

**Galli, C.**, Passeri, G., Elezi, E., Macaluso, G.M., O'Brien, C.A. (2009) Regulations of RANKL expression by calciotropic hormones via

a distal transcriptional enhancer and its modulation by commitment to the osteoblast lineage. *Oral presentation, Forum in Bone and Mineral Research, Abano Terme, 26-27 Giugno 2009.*

**Galli, C.,** Macaluso, G.M., Bonanini, M. (2008). Evoluzione delle superfici implantari. *Oral presentation, Expo di Autunno, Milano, 28-29 Novembre 2008*

**Galli, C.,** Cazer, P.E., Zella, L.A., Fretz, J.A., Pike, J.W., Weinstein, R.S., Manolagas, S.C., and O'Brien, C.A. (2007). *Targeted deletion of a distant transcriptional enhancer of the RANKL gene reduces bone remodeling and increases bone mass. Journal of Bone and Mineral Research 22, S19-S19. Oral presentation, ASBMR Meeting Honolulu, HI, USA.*

**Galli, C.,** Macaluso, G.M., Guizzardi, S., Bonanini, M. (2003). Le risposte biologiche alle superfici implantari. *Oral presentation, conferenza S.I.O.P.I durante il Congresso del Collegio dei Docenti di Odontoiatria, Roma, 11 Aprile 2003*

#### **Partecipazione a progetti di ricerca finanziati**

Titolo: "A 3D electron Nanotomography and Stereomicroscopy investigation of the effects of nano and microtopography on cell morphology and adhesion" Ente erogatore: ITI Foundation (2015), grant 1103\_2015 Importo finanziato: 35000 Euro

Titolo: "APTAGEN-Biomimetic Surfaces for tissue regeneration " Ente erogatore: American association of Implant Dentistry Importo finanziato: 20000 \$

Titolo: "Periostin as a tool to enhance surface compatibility of endosseous implants" Ente erogatore: Support Grant 839\_2012 from ITI Foundation Importo finanziato: 45000 CHF

Titolo: "Terapie geniche difetti ossei localizzati" Ente erogatore: Fondazione Cariparma (2011) Importo finanziato: 10000 "

Titolo: "Alveolar bone regeneration through local Sost knock down." Ente erogatore: Support Grant from Osteology Foundation 2011 Importo finanziato: 35000 CHF

Titolo: "GSK3 inhibition to improve the integration of endosseous implants"! Ente erogatore: Research Support Grant 093\_2010 from ITI Foundation Importo finanziato: 40000 CHF

Titolo: "Regenerative Medicine in Osteoarticular Diseases" Ente erogatore: Regione Emilia Romagna 2008-2010. Importo finanziato: 70000 "

Titolo: "The Role of Wnt signaling in the regulation of cell commitment by titanium surface topography"! Ente erogatore:

Research Support Grant 593\_2008 from ITI Foundation Importo  
finanziato: 45400 CHF

### **Partecipazione a editorial boards**

Current Research in Dentistry dal 01/2012  
ISRN Biomaterials dal 04/2012  
Dataset Papers in Medicine dal 08/2012  
Journal of Dental, Oral and Craniofacial Research (DOCR) dal  
11/2014  
Aptamers dal 12/2016

### **Attività di referee**

•Biomaterials (ISI), •International Journal of Oral Sciences  
•European Cells and Materials (ISI), •Acta Biomaterialia (ISI),  
•Journal of Tissue Engineering and Regenerative Medicine (ISI)  
•Clinical Oral Implant Research (ISI), •Clinical Implant Dentistry  
and Related Research (ISI), •The Angle Orthodontist (ISI),  
•Journal of Diabetes Investigation (ISI), •Cytokine (ISI),  
•Journal of Biomaterials Applications (ISI), •Webmed Central,  
•ISRN Biomaterials, •BMC Cell Biology (ISI), •Journal of Indian  
Society of Periodontology •International Journal of Nanomedicine  
•Surface and Coatings Technology. •International Journal of Oral  
Sciences Altro: ha valutato progetti di ricerca per progetti USA-  
Israele.

### **Brevetti**

PCT/EP2014/053502 Biomedical device implantable in bone and/or  
cartilaginous tissue, and corresponding method to manufacture said  
biomedical device. Inventori: Carlo Galli, Guido Macaluso.  
Aptameri per la realizzazione di dispositivi biomedicali  
impiantabili in tessuto e relativo metodo. 0001416374 (2013)  
Inventori: Carlo Galli, Guido Macaluso.

Composition and method for aptamer binding to material surface.  
GB1313155.2 (2013). Inventori: Carlo Galli, Guido Macaluso, Simone  
Lumetti.

Composition and method of implantable devices for localized  
delivery of bioactive compounds GB2512072 (2013)

### **Attività di tutor**

**Marilina Piemontese** The influence of the topography of titanium  
surfaces on mesenchymal cell behavior: the role of b catenin  
dependent signaling. (C.L.M. Biotecnologie per la Salute, 2010)

**Hofit Magia** Valutazione in vitro dell'attività cellulare di  
osteoblasti murini su superfici implantari di titanio con

rivestimento dendrimerico. (C.L. Odontoiatria e Protesi dentaria, 2011)

**Andrè Caprioli** La risposta cellulare a miniviti di titanio di grado 4 e 5 per mini viti ortodontiche. (C.L. Odontoiatria e Protesi dentaria, 2011)

**Teresa Oliverio** Le risposte di cellule osteoblastiche al trattamento superficiale di mini-viti di titanio a scopo ortodontico: uno studio in vitro. (C.L. Odontoiatria e Protesi dentaria, 2011)

**Silvia Mazzotta** The influence of cytoskeletal organization on the response of mesenchymal cells to implant surface microtopography. (C.L.M. Biotecnologie per la Salute, 2012)

**Sara Ferrillo** Mesenchymal cells differentiation on titanium surfaces: the effects of Wnt signaling modulation through GSK3 b inhibition. (C.L.M. Biotecnologie per la Salute, 2012)

**Maddalena Piergianni** Periostin improves cell adhesion on implantable biomaterials. (C.L.M. Biotecnologie per la Salute, 2012)

**Mariapia Abruzzese** The effect of microrough titanium surfaces with different surface treatment on the morphology and activity of osteoblastic cells. (C.L.M. Biotecnologie per la Salute, 2013)

**Roberta Bello** The effect of surface microtopography on osteoblastic differentiation markers: the role of prostaglandin E2 receptor subtypes. (C.L.M. Biotecnologie per la Salute, 2013)

**Maura Mureddu** The effect of surface treatments on osseointegration of orthodontic mini screws: an in vivo study. (C.L. Odontoiatria e Protesi dentaria, 2013)

**Roberto Fracasso** Effetti del carico meccanico sull'osteointegrazione di miniviti ortodontiche con diversa topografia superficiale (C.L. Odontoiatria e Protesi dentaria, 2014)

**Sara Benecchi** Effetto del Calcio extracellulare sulla regolazione della via Canonica di Wnt in osteoblasti marini. (C.L. Biotecnologie per la Salute, 2015)

**Giulia Benedetto** Biocompatibilità di nanofili di Silicio per coating di dispositivi biomedicali impiantabili (C.L. Biotecnologie per la Salute, 2015)

**Marisa Siciliano** Aptameri per il miglioramento della biocompatibilità di scaffold polimerici per la rigenerazione del tessuto osseo (C.L.M. Biotecnologie per la Salute, 2016)

**Benedetta Ghezzi** Studio della citocompatibilità di nanofili di ossicarburo di silicio e nanoparticelle nanocomposite a base di fluoruro di cerio per applicazioni biomediche (C.L.M. Biotecnologie per la Salute, 2016)

## **Pubblicazioni 2016**

### **Full articles**

Rimoldi T., Orsi D., Lagonegro P., Ghezzi B., **Galli C.**, Rossi F., Salviati G., Cristofolini L. CeF<sub>3</sub>-ZnO scintillating nanocomposite for self-lighted photodynamic therapy of cancer. *Journal of Materials Science: Materials in Medicine. in press*

**Galli C.**, Parisi L, Piergianni M, Smerieri A, Passeri G, Guizzardi S, Costa F, Lumetti S, Manfredi E, Macaluso GM. Improved scaffold biocompatibility through anti-Fibronectin aptamer functionalization. *Acta Biomater.* 2016 Sep 15;42:147-56.

Ghiacci G, Graiani G, Ravanetti F, Lumetti S, Manfredi E, **Galli C.**, Cacchioli A, Macaluso GM, Sala R. "Over-inlay" block graft and differential morphometry: a novel block graft model to study bone regeneration and host-to-graft interfaces in rats. *J Periodontal Implant Sci.* 2016 Aug;46(4):220-33.

**Galli**, L. Parisi, L. Elviri, A. Bianchera, A. Smerieri, S. Lumetti, E. Manfredi, R. Bettini, GM. Macaluso (2016) Chitosan scaffold modified with D-(+) Raffinose and enriched with Thiol-modified Gelatin for improved osteoblast adhesion. *Biomedical Materials* 2; 11(1): 015004.

*Lumetti S, Manfredi E, Ferraris S, Spriano S, Passeri G, Ghiacci G, Macaluso G, **Galli C.** The response of osteoblastic MC3T3-E1 cells to micro- and nano-textured, hydrophilic and bioactive titanium surfaces. J Mater Sci Mater Med. 2016 Apr;27(4):68.*

F. Ravanetti, E. Scarpa, V. Farina, M. Zedda, **C. Galli**, P. Borghetti, A. Cacchioli. (2016) The effect of age, anatomical site and bone structure on osteogenesis in New Zealand White rabbit. *J Biol Res in press*

Manfredi E, Lumetti S, Rivara F, Toffoli A, Calciolari E, Cacchioli A, Ravanetti F, Ghiacci G, Macaluso G, **Galli C.** Role of prostaglandin E2 in the modulation of Wnt canonical signaling in cells on microstructured titanium surfaces. *J Appl Biomater Funct Mater.* 2016 May 6:0

Mattarozzi M, Manfredi E, Lorenzi A, Smerieri A, Di Blasio A, Macaluso G, Lumetti S, **Galli C.** Comparison of Environmental Scanning Electron Microscopy in Low Vacuum or wet mode for the investigation of cell biomaterial interactions. *Acta Biomed.* 2016 May 6;87(1): 16-21.

## Book chapters

F. Rossi, P. Lagonegro, M. Negri, F. Fabbri, G. Salviati, R. Alinovi, S. Pinelli, F. Ravanetti, A. Cacchioli, E. Bedogni, F. Bigi, T. Rimoldi, L. Cristofolini, **C. Galli**, A. Smerieri and G.M. Macaluso. Silicon Carbide-Based Nanowires for Biomedical Applications. In: Silicon Carbide Biotechnology 2nd edition, ch. 10, Page: 311-42; Elsevier 2016.

Parisi, **C. Galli**, L. Elviri, A. Bianchera, P. Lagonegro, S. Lumetti, E. Manfredi and G. M. Macaluso. Aptamer-mediated Selective Protein Affinity to improve scaffold biocompatibility. In: Bone Regeneration, Intech, 2016. *in press*

## Abstracts

P. Lagonegro, G. Trevisi, L. Nasi, L. Parisi, E. Manfredi, S. Lumetti, F. Rossi, G.M. Macaluso, G. Salviati, C. Galli. Focused Ion Beam microscopy reveals that osteoblastic cells preferentially adhere to peaks on micro-structured titanium. *Minerva Stomatol* 65, 3(S1): 116.

*Manfredi E., Lumetti S., Toffoli A., Ferrara A., Rivara F., Ghiacci G., Calciolari E., Galli C., Bonanini M., Macaluso GM. Digital workflow of immediate implant load- ing with screw retained porcelain single crown in the posterior mandible: a proof of concept study. Minerva Stomatol 65, 3(S1): 91.*

A. Palazzolo, C. Marchetti, G. Macaluso, U. Consolo, F. Rivara, E. Manfredi, A. Toffoli, G. Ghiacci, **C. Galli**, S. Lumetti. Implant-supported restorations following horizontal ridge reconstructions by means of autologous or homologous bone block grafts: 5-year clinical results of a multi centric RCT. *Minerva Stomatol* 65, 3(S1): 96.

A. Toffoli, L. Parisi, P. Lagonegro, **C. Galli**, F. Rivara, E. Manfredi, S. Lumetti, A. Lorenzi, I. Alfieri, G. M. Macaluso, M. Bonanini. Osteoblast adhesion on hyperhydrophilic micro-structured titanium surfaces: a Focused Ion Beam study. *Minerva Stomatol* 65, 3(S1): 117.

G. Ghiacci, **C. Galli**, A. Manfra, S. Lumetti, E. Manfredi, A. Toffoli, R. Sala, GM. Macaluso. Effects of Stanazolol on growth pattern and apposition of bone mineral matrix in SaOS-2 cells. *Minerva Stomatol* 65, 3(S1): 186.

## 2015

### Full articles

Ravanetti F, **Galli C**, Manfredi E, Cantoni AM, Scarpa E, Macaluso

GM and Cacchioli A. (2015) Chitosan-based Scaffold modified with D-(+) raffinose for Cartilage Repair: an In vivo Study. J Negat Results Biomed. Jan 14;14(1):2.

## **Abstracts**

L.Parisi, M. Piergianni, A. Smerieri, G. Graiani, S. Lumetti, E. Manfredi, GM. Macaluso, M. Bonanini, **C. Galli**. Aptamers improve cell biocompatibility of implantable biomaterials *Minerva Stomatol* 64, 2(S1): 151

*G. Ghiacci, G. Graiani, C. Galli, S. Lumetti, A. Toffoli, E. Manfredi, R. Sala, G. M. Macaluso Local delivery of stanozolol enhances new bone formation in rat calvarial critical-size defects: Minerva Stomatol* 64, 2(S1): 85

L.Parisi, M. Piergianni, E. Manfredi, GM. Macaluso, **C. Galli**. Novel biomaterials with selective protein affinity through aptamer functionalization. 3 Premio Cornellini, Premium day, Padova 11-13 Giugno 2015.

L.Parisi, A. Smerieri, A. Bianchera, G.M. Macaluso, **C. Galli**. Chitosan-based scaffold modified with D-(+) Raffinose for improved cell adhesion. 3 Premio Cornellini, Premium day, Padova 11-13 Giugno 2015.

Rivara F., Smerieri A., Lumetti S., Macaluso GM., Passeri G., **Galli C**. Extracellular calcium up-regulates Wnt canonical signaling in mouse calvaria osteoblasts. *J Clin Periodontol* (2015) 42(S17):270

Lagonegro P., **Galli C.**, Alinovi R., Pinelli S., Salviati G., Lumetti S., Macaluso G., SiC nanowires support growth of epithelial cells and the formation of a cell-biomaterial hybrid layer. *J Clin Periodontol* (2015) 42(S17): 51

G. Ghiacci, G. Macaluso, **C. Galli**, S. Lumetti, M. Zanotti, R. Sala. Dexamethasone and Stanozolol affect osteogenic differentiation of SaOS-2 cells *J Clin Periodontol* (2015) 42(S17):274

Maino G., Rivara F., Spadoni D., Macaluso G.M., Ravanetti F., **Galli C.**, Cacchioli A., Gandolfini M. Mechanical loading affects bone structure around orthodontic mini-implants. *Eur J Oral Implantol* (2015) 8:S2.

## **2014**

### **Full articles**

Lumetti S, Ferrillo S, Mazzotta S, Macaluso GM, Bonanini M, Passeri G, **Galli C**. (2014) Pharmacological GSK-3beta inhibition

improves osteoblast differentiation on titanium surfaces. *J Biol Regul Homeost Agents*. Jul-Sep;28(3):489-95.

*Negri M., Galli C., Smerieri A., Macaluso GM., Manfredi E., Ghiacci G., Toffoli A., Bonanini M., Lumetti S. (2014) The effect of age, gender and insertion site on marginal bone loss around endosseous implants: results from a 3 year trial with Premium® implant system. BioMed Research International. 2014:369051.*

Lumetti S, **Galli C**, Manfredi E, Consolo U, Marchetti C, Ghiacci G, Toffoli A, Bonanini M, Salgarelli A, Macaluso GM. (2014) Correlation between density and resorption of fresh- frozen and autogenous bone grafts. *Biomed Res Int*. 2014;2014:508328.

Caroli B, Pasin F, Aloe R, Gnocchi C, Dei Cas A, **Galli C**, Passeri G. Characterization of skeletal parameters in a cohort of North Italian rugby players. *J Endocrinol Invest*. 2014 Apr 3.

Lumetti S., Mazzotta S., Ferrillo S., Piergianni M., Piemontese M., Passeri G., Macaluso GM., **Galli C**. RhoA controls Wnt up-regulation on microstructured titanium surfaces," *BioMed Research International* 2014;2014:401859.

**Galli, C.**, Piemontese, M., Meikle, S.T., Santin, M., Macaluso, G.M., and Passeri, G. (2014). Biomimetic coating with phosphoserine-tethered poly(epsilon-lysine) dendrons on titanium surfaces enhances Wnt and osteoblastic differentiation. *Clin Oral Implants Res*. Feb;25(2):e133-e139

Lumetti, S., Consolo, U., **Galli, C.**, Multinu, A., Piersanti, L., Bellini, P., Manfredi, E., Corinaldesi, G., Zaffe, D., Macaluso, G.M., *et al.* (2014). Fresh-Frozen Bone Blocks for Horizontal Ridge Augmentation in the Upper Maxilla: 6-Month Outcomes of a Randomized Controlled Trial. *Clin Implant Dent Relat Res*. Feb;16(1):116-23.

## **Abstracts**

**Galli C**, Lumetti S, Smerieri A, Ghiacci G, Bonanini M, Manfredi E, Toffoli A, Macaluso GM. Bone cells on hyperhydrophilic surfaces are more sensitive to oxidative stress and can be rescued by increase in free b-catenin. *Minerva Stomatol* 63, 4(S1):271.

Mattarozzi M, Alfieri I, Lorenzi A, Toffoli A, Macaluso GM, Lumetti S, Manfredi E, **Galli C**. Comparison of Environmental Scanning Electron Microscopy with High Vacuum Scanning *Electron Microscopy for the investigation of cell biomaterial interactions. Minerva Stomatol* 63, 4(S1): 465.

Ghiacci G, **Galli C**, Graiani G, Sala R, Lumetti S, Di Blasio A, Manfredi E, Macaluso GM. A novel approach to bone regeneration with androgenic steroid Stanozolol. *Minerva Stomatol* 63, 4(S1):



475.

Negri M, **Galli C**, Macaluso GM, Smerieri A, Manfredi E, Ghiacci G, Bonanini M, Lumetti S. The effect of age, gender and insertion site on marginal bone loss around endosseous implants 3 years after insertion. *Minerva Stomatol* 63, 4(S1): 246.

Ghiacci G, Macaluso GM, Manfredi E, **Galli C**, Di Blasio A, Magnifico M, Bonanini M, Lumetti S. Tardive dyskinesia, oral parafunction and implant-supported rehabilitation: a case report. *Minerva Stomatol* 63, 4(S1): 609.

Manfredi E, Smerieri A, Lumetti S, Bonanini M, Di Blasio A, Toffoli, A, **Galli C**, Macaluso GM. Ambulatory polysomnographic assessment of Sleep Bruxism and related risk factors. *Minerva Stomatol* 63, 4(S1): 173.

**Galli C**, Abruzzese MP, Lumetti S, Macaluso GM, Di Blasio A, Manfredi E, Graiani G, Bonanini M. Cell differentiation on microtextured titanium surfaces is associated to increased Connexin 43 expression. *Minerva Stomatol* 63, 4(S1): 205.

Rivara, F., **Galli, C.**, Lumetti, S., Manfredi, E., Macaluso, G.M. (2014) The role of connexin 43 in cell differentiation on micro textured titanium surfaces. *Eur J Oral Implant* 7, S17

Lumetti, S., Manfredi, E., Rivara, F., **Galli, C.**, Ghiacci, G., Macaluso, G.M. (2014) Implant-supported prosthetic rehabilitation after a ski trauma: 8-year clinical results. *Eur J Oral Implant* 7, S49

**Galli, C.**, Lumetti, S., Manfredi, E., Ghiacci, G., Bonanini, M., Macaluso, G.M. (2014) Surface wettability affects cell response to oxidative stress. *Eur J Oral Implant* 7, S58

**Galli, C.**, Passeri, G., Manfredi, E., Calciolari, E., Macaluso, G.M., Lumetti, S. (2014) The effects of titanium topography on the differentiation of osteoblastic cells: the role of the Small GTPase RhoA. *Eur J Oral Implant* 7, S59

Toffoli, A., Ghiacci, G., Gandolfini, M., **Galli, C.**, Macaluso, G.M., Lumetti, S. (2014) Microfilament stability affects differentiation of bone cells on microstructured titanium surfaces. *Eur J Oral Implant* 7, S59-S60

Lumetti, S., Rivara, F., Di Blasio, A., Toffoli, A., **Galli, C.**, Manfredi, E. (2014) The effects of GSK3b inhibition on the differentiation of osteoblastic cells on rough titanium surfaces. *Eur J Oral Implant* 7, S60

Ghiacci, G., Lumetti, S., Manfredi, E., Passeri, G., Macaluso, G.M., **Galli C.** (2014) The role of Prostaglandin E2 on cell differentiation on implant surfaces with microstructured

topography. Eur J Oral Implant 7, S61

Negri, M., Lumetti, S., Smerieri, A., Di Blasio, A., **Galli, C.**, Macaluso, G.M. (2014) The effect of patient gender and age on Marginal Bone Resorption around endosseous implants in maxilla and mandible: a longitudinal study. Eur J Oral Implant 7, S61-S62

Lumetti S., Manfredi E., Smerieri A., Macaluso GM., Toffoli A., Ghiacci G., Aldigeri R., **Galli C.** (2014) Implant rehabilitation after homologous or fresh frozen bone blocks for horizontal ridge augmentation in the maxilla: four-year clinical outcomes of a randomized controlled trial. Clin Oral Implant Res 25 (Suppl. 10), 333.

Negri M., **Galli C.**, Smerieri A., Macaluso GM., Manfredi E., Ghiacci G., Di Blasio A., Lumetti S. (2014) The effect of age, gender and insertion site on marginal bone loss around endosseous implants: results from a 3 year trial. Clin Oral Implant Res 25 (Suppl. 10), 244.

Ghiacci G., Bianchera A., Reia L., Lumetti S., **Galli C.**, Macaluso GM., Sala R. (2014) Placental stem cells are a useful tool for bone regeneration with biomimetic scaffolds: the actors perform better if the setting is appropriate. Clin Oral Implant Res 25 (Suppl. 10), 182.

**Galli C.**, Di Blasio A., Manfredi E., Ghiacci G., Toffoli A., Bonanini M., Macaluso GM., Lumetti S. (2014) Implant surface microtopography affects cell the pattern of cell growth, cell-to-cell contacts and the expression of Connexin 43. Clin Oral Implant Res 25 (Suppl. 10), 120.

Lumetti S., Smerieri A., Ghiacci G., Bonanini M., Passeri G., Macaluso GM., **Galli C.** (2014) Hyperhydrophilic surfaces enhance the effects of oxidative stress on bone cells and LiCl can reverse it. Clin Oral Implant Res 25 (Suppl. 10), 119.

## 2013

### Full articles

**Galli, C.**, S., Piergianni, M., Piemontese, M., Lumetti, S., Ravanetti, F., Cacchioli, A., Macaluso, G.M., Passeri, G. (2013) Periostin improves cell adhesion to implantable biomaterials and osteoblastic differentiation on implant titanium surfaces in a topography- dependent fashion. J Biomed Mater Res A. 2013 Dec 10. [Epub ahead of print].

**Galli, C.**, Macaluso, G., and Passeri, G. (2013). Serotonin: a novel bone mass controller may have implications for alveolar bone. J Negat Results Biomed. 2013 Aug 21;12:12.

**Abstracts Galli, C.**, Piergianni, M., Piemontese, M., Macaluso, G.,

and Lumetti, S. (2013). Periostin improves cell adhesion to implantable biomaterials and affects osteoblastic gene expression on titanium surfaces. *Clin Oral Implant Res* 24, 16.

## 2012

**Full articles** Galli, C., Piemontese, M., Lumetti, S., Manfredi, E., Macaluso, G.M., and Passeri, G. (2012). GSK3b-inhibitor lithium chloride enhances activation of Wnt canonical signaling and osteoblast differentiation on hydrophilic titanium surfaces. *Clin Oral Implants Res*. 24(8):921-7

**Galli, C.,** Piemontese, M., Lumetti, S., Manfredi, E., Macaluso, G.M., and Passeri, G. (2012). The importance of WNT pathways for bone metabolism and their regulation by implant topography. *Eur Cell Mater* 24, 46-59.

**Galli, C.,** Piemontese, M., Lumetti, S., Ravanetti, F., Macaluso, G.M., and Passeri, G. (2012). Actin cytoskeleton controls activation of Wnt/beta-catenin signaling in mesenchymal cells on implant surfaces with different topographies. *Acta Biomater* 8, 2963-2968.

**Galli, C.,** Piemontese, M., Ravanetti, F., Lumetti, S., Passeri, G., Gandolfini, M., and Macaluso, G.M. (2012). Effect of surface treatment on cell responses to grades 4 and 5 titanium for orthodontic mini-implants. *Am J Orthod Dentofacial Orthop* 141, 705-714.

**Galli, C.,** Lumetti, S., Manfredi, E., Macaluso, G., and Passeri, G. (2012). Sclerostin: A Novel Key to Bone and Dental Treatment. *Curr Res Dent* 3, 18-26.

Onal, M., **Galli, C.,** Fu, Q., Xiong, J., Weinstein, R.S., Manolagas, S.C., and O'Brien, C.A. (2012). The RANKL distal control region is required for the increase in RANKL expression, but not the bone loss, associated with hyperparathyroidism or lactation in adult mice. *Mol Endocrinol* 26, 341-348.

**Abstracts** Galli, C., Piemontese, M., Ravanetti, F., Passeri, G., and Macaluso, G. (2012). RhoA controls activation of Wnt canonical signaling on titanium surfaces. *Clin Oral Implant Res* 23, 61.

**Galli, C.,** Lumetti, S., Piemontese, M., Passeri, G., and Macaluso, G. (2012). Adsorbed Periostin protein on titanium surfaces affects osteoblastic cell behavior. *Clin Oral Implant Res* 23, 230. **Galli, C.,** Manfredi, E., Piemontese, M., Ghiacci, G., Macaluso, G., and Passeri, G. (2012). Wnt-activator BIO improves osteoblast differentiation on rough titanium surfaces. *Clin Oral Implant Res* 23, 61.

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