



UNIVERSITÀ DEGLI STUDI
DI GENOVA

UNIVERSITÀ DELLA CALABRIA



Dipartimento di INGEGNERIA CHIMICA
E DEI MATERIALI



Società Italiana Biomateriali

Congresso Nazionale Biomateriali

24 - 26 Maggio 2010

Camogli (GE), Hotel Cenobio dei Dogi

Web site: <http://www.biomateriali.org/congres/congres.htm> E-mail: sib-2010@libero.it

Presidente del Congresso: Rodolfo Quarto

Comitato Scientifico: Roberto Chiesa (*Presidente SIB*), Luigi Ambrosio, Michela Bosetti, Gerardo Catapano, Caterina Cristallini, Silvia Farè, Milena Fini, Roberto Giardino, Lia Rimondini, Guido Riva, Alessandro Ruggeri, Enrico Sandrini, Cristina Tanzi, Livia Visai.

Comitato Organizzatore: Alberto Barone, Fabrizio Barberis, Gerardo Catapano, Ilaria De Napoli, Paolo Giannoni, Rodolfo Quarto, Silvia Scaglione.

Segreteria Scientifica: Ilaria De Napoli, Silvia Farè, Silvia Scaglione

Autorità invitate alla cerimonia di apertura del congresso:

Rettore dell'Università degli Studi di Genova: Prof. Giacomo Deferrari
Pro-Rettore dell'Università degli Studi di Genova: Prof. Fabio Lavagetto
Preside della Facoltà di Ingegneria: Prof. Paola Girdinio
Preside della Facoltà di Medicina: Prof. Giancarlo Torre
Presidente del corso di Laurea di Ingegneria Biomedica: Prof. Sergio Martinoia

Chairmen delle sessioni:

Prof. Luigi Ambrosio (IMCB-CNR, Napoli)
Prof. Michela Bosetti (Università del Piemonte Orientale)
Prof. Gerardo Catapano (Università della Calabria)
Prof. Roberto Chiesa (Politecnico di Milano)
Prof. Gianluca Ciardelli (Politecnico di Torino)
Prof. Caterina Cristallini (Università di Pisa)
Prof. Silvia Farè (Politecnico di Milano)
Prof. Pietro Favia (Università di Bari)
Prof. Rodolfo Quarto (Università di Genova)
Prof. Davide Ricci (Istituto Italiano Tecnologie - Genova)
Prof. Lia Rimondini (Università del Piemonte Orientale)
Prof. Maria Cristina Tanzi (Politecnico di Milano)

Summary

Monday, May 24 2010

12.00 - 18.00	Registration desk opening hours
13.00 - 14.00	Welcome Cocktail at Cenobio dei Dogi Hotel (Sala dei Dogi)
14.00 - 14.30	Opening ceremony: invited guests
14.30 - 15.00	<i>First session: Tissue Engineering.</i> Invited lecture Prof Ranieri Cancedda
15.00 - 16.30	Oral communications
16.30 - 17.00	Coffee break (Bar del Doge)
17.00 - 17.30	<i>Second session: Surface Functionalization.</i> Invited lecture Prof. Ivan Martin
17.30 - 19.00	Oral communications
20.30 -	Dinner at Cenobio dei Dogi Hotel (Ristorante del Doge)

Tuesday, May 25 2010

8.00 - 8.45	Breakfast (Ristorante del Doge)
9.00 - 9.30	<i>Third session: Nervous tissue engineering</i> Invited lecture Prof. A. Quattrini
9.30 - 11.00	Oral communications
11.00 - 11.30	Coffee break (Bar del Doge)
11.30 - 12.00	<i>Fourth session: Innovative scaffolds</i> Invited lecture Dr. Bernd Krause
12.00 - 13.00	Oral communications
13.00 - 14.00	Buffet Lunch at Cenobio dei Dogi Hotel (Ristorante del Doge)
15.00 - 16.30	<i>Fifth session: Innovative scaffolds</i> Oral communications
16.30 - 17.30	Social Members' Assembly (Sala Cassiopea)
16.30 - 20.30	<i>Poster Session (Sala Sirius)</i>
17.30	Wine and cheese tasting (Sala Sirius)
20.30 - 22.30	Gala Dinner at Cenobio dei Dogi Hotel (Ristorante La Playa)

Wednesday, May 26 2010

8.00 - 9.00	Breakfast (Ristorante del Doge)
9.00 - 10.30	<i>Sixth session: Cell-Biomaterial interaction</i> Oral communications
10.30 - 11.00	Coffee break (Bar del Doge)
11.00 - 12.00	<i>Seventh session: Nanotechnologies</i> Oral communications
12.00 - 12.15	SIB Award for the best oral communication
12.15 - 12.30	End of the Congress

All sessions will be held in Sala Cassiopea.

Poster session will be held in Sala Sirius.

All posters will remain posted on for the entire duration of the Congress.

Program

Monday, May 24 2010 – Afternoon sessions

- 14.00 - 14.30 **Opening ceremony: invited guests.**
Prof. Giacomo Deferrari (Rettore dell'Università degli Studi di Genova),
Prof. Fabio Lavagetto (Pro-Rettore dell'Università degli Studi di Genova),
Prof. Paola Girdinio (Preside della Facoltà di Ingegneria),
Prof. Giancarlo Torre (Preside della Facoltà di Medicina),
Prof. Sergio Martinoia (Presidente C.d.L Ingegneria Biomedica)

FIRST SESSION: 14.30-16.30

TISSUE ENGINEERING

Chiarmen: R. Quarto e C. Cristallini

- 14.30 - 15.00: **Invited lecture** Prof. Ranieri Cancedda (University of Genova)
“Bone graft materials related to mesenchymal stem cells: a potential regenerative approach to guided bone repair”
- 15.00 - 15.10 **V. Catto**, I. Cattaneo, G. Freddi, S. Farè, A. Alessandrino, A. Remuzzi, M.C. Tanzi (Politecnico di Milano) *Electrospun Silk Fibroin Tubular Matrices as Scaffolds for Small Caliber Vascular Vessel Replacement*
- 15.10 - 15.20 **M. Centola**, A. Rainer, S.M. Giannitelli, C. Spadaccio, S. De Porcellinis, J.A. Genovese and M. Trombetta (University Campus Biomedico of Roma) *Combining electrospinning and fused deposition modelling for the fabrication of a hybrid vascular graft*
- 15.20 - 15.30 **I. E. De Napoli**, P. Giannoni , S. Scaglione, R. Quarto, G. Catapano (University of Calabria) *Optimization of analytical techniques for osteogenic cell culture in hollow fiber membrane bioreactors*
- 15.30 - 15.40 **R. Gottardi**, E.Landini, P. Vena, R. Raiteri (University of Genoa) *Mechanical testing of reference model gels and articular cartilage by atomic force microscopy*
- 15.40 - 15.50 **V. Guarino**, F. Urciuolo, B. Mele, PA Netti, L. Ambrosio (CNR, Napoli) *Fibre reinforced composite scaffolds: Modeling on structure and fluid transport for in vitro bone regeneration*
- 15.50 - 16.00 **S. Scaglione**, E. Lazzarini, P. Bianchini, A. Diaspro, R. Quarto (University of Genoa) *Role of biomaterial geometry on in vivo bone formation in ectopic model*
- 16.00 - 16.30 Discussion
- 16.30 - 17.00 Coffee break

SECOND SESSION: 17.00-19.00
SURFACE FUNCTIONALIZATION

Chiarmen: R. Chiesa e P. Favia

- 17.00 - 17.30 **Invited lecture** Prof. Ivan Martin, (University of Basel, Switzerland)
“Toward the engineering of a biological prosthesis for cartilage repair”
- 17.30 - 17.40 I. Alfieri, **R. Chiesa**, G. Moretti, C. Della Valle, G. Candiani, L. De Nardo, A. Montenero, A. Cigada (Politecnico di Milano) *Sol-gel multilayer calcium phosphate coatings for implants osseointegration*
- 17.40 - 17.50 V. Chiono, P. Gentile, I. Carmagnola, A.M. Ferreira, F. Boccafoschi, V. Toncheva, G. Georgiev, **G. Ciardelli** (Politecnico di Torino) *Photo-activated deposition of bone-like apatite by innovative photosensitive copolymers*
- 17.50 - 18.00 **L. Cipolla**, L. Russo, N. Shaikh, F. Nicotra, P. Giannoni, R. Quarto (University of Milano Bicocca) *Preliminary evaluation of C-type natriuretic peptide and its fragments for tissue engineering applications*
- 18.00 - 18.10 **A. De Capua**, M. Iannone, R. Quarto, P. Netti, P. Giannoni (University Federico II, Napoli) *Surface bio-functionalization: envisioning prosthetic surfaces with cell trapping properties for mesenchymal stem cells-based tissue engineering*
- 18.10 - 18.20 **F. Intranuovo**, R. Gristina, E. Sardella, M. Nardulli, P. Favia, R. d’Agostino (University of Bari) *Improved osteoblast cell affinity by plasma modifying polycaprolactone scaffolds*
- 18.20 - 18.30 E. Varoni, M. Iafisco, N. Roveri, MG Prat, **L. Rimondini** (Università Piemonte Orientale) *Antibodies absorption onto hydroxyapatite nanocrystals surface*
- 18.30 - 18.40 **E. Rosellini**, C. Cristallini, N. Barbani, P. Giusti (University of Pisa) *Polymers Functionalization By Covalent Immobilization Of Bioactive Peptides For Cardiac Tissue Engineering Application*
- 18.40 - 19.00 Discussion
- 20.30 - Dinner at Cenobio dei Dogi Hotel

Tuesday, May 25 2010 – Morning sessions

THIRD SESSION: 9.00 – 11.00
NERVOUS TISSUE ENGINEERING

Chairmen: D. Ricci e S. Farè

- 9.00 - 9.30 **Invited lecture** Prof. Angelo Quattrini, (Ospedale San Raffaele, Milano)
“Biomaterials for peripheral nerve regeneration”
- 9.30 - 9.40 **B. Chelli**, F. Valle, E. Bystrenova, M. Bianchi, M. Jelitai, A. Bergia, F. Biscarini
(CNR, Bologna) *A New Approach for Multiscale Cell Guidance: Soft Lithography*
- 9.40 - 9.50 **V. Chiono**, C. Tonda-Turo, C. Audisio, E. Cipriani, P. Gentile, S. Geuna, M.
Zanetti, I. Perroteau, G.Ciardelli (Politecnico di Torino) *Biomimetic guidance
channels for peripheral nerve re generation*
- 9.50 - 10.00 **E. De Giglio**, D. Cafagna, S. Cometa, L. Sabbatini, A. Trapani (University of
Bari) *Dopamine adsorbing chitosan nanoparticles: novel carriers for Parkinson’s
disease*
- 10.00 - 10.10 M.A. Alvarez-Perez, **V. Guarino**, V. Cirillo, L. Ambrosio (CNR, Napoli)
Bioactive electrospun membrane for nerve re generation
- 10.10 - 10.20 **G. Novajra**, J. Lousteau, D. Milanese, J.C. Knowles, C. Vitale-Brovarone
(Politecnico di Torino) *Studies on phosphate glass fibers for biomedical
applications*
- 10.20 - 10.30 E. Castagnola, A. Ansaldo, S. Boccardo, R. Ruffili, S. De Faveri, **D. Ricci** (IIT,
Genova) *Carbon nanotubes and conductive polymers for neural interfaces*
- 10.30 - 11.00 Discussion
- 11.00 - 11.30 Coffee break

FOURTH SESSION: 11.30 – 13.00
INNOVATIVE SCAFFOLDS

Chairmen: L. Ambrosio e G. Catapano

- 11.30 - 12.00 **Invited lecture** Dr. Bernd Krause (Gambro, Hechingen)
“Membranes for artificial organs”
- 12.00 - 12.10 **S. Bertoldi**, S. Fare’, M.C. Tanzi (Politecnico di Milano) *Effects of plasma and ozone sterilization on PU foams for tissue engineering application*
- 12.10 - 12.20 C. DellaValle, S. Baldelli, L. Donizetti, D. Pezzoli, G. Candiani, **R. Chiesa**, A. Cigada (Politecnico di Milano) *Optimization of a silicon-based biomimetic treatment to improve the osteointegration of titanium alloy (Ti6Al4V)*
- 12.20 - 12.30 **M. Dessì**, S.Zeppetelli, R. De Santis, L.Ambrosio (CNR, Napoli) *Composite hydrogels for bone tissue regeneration*
- 12.30 - 12.40 **A.M. Ferrari** (D’Appolonia S.p.A.) *WOODY Advanced wood-based composites and their production*
- 12.40 - 12.50 **M. Fiorini**, L. Dolcini, A. Nicoletti, D. Pressato (Fin-Ceramica Faenza S.p.A.) *Chemical-Physical Characterization Of A Novel Monolithic Composite Scaffold For Osteo-Chondral Tissue Regeneration*
- 12.50 - 13.00 Discussion
- 13.00 - 14.00 Buffet Lunch at Cenobio dei Dogi Hotel

Tuesday, May 25 2010 – Afternoon sessions

*FIFTH SESSION: 15.00 - 16.30
INNOVATIVE SCAFFOLDS*

Chairmen: M.C. Tanzi e F. Barberis

- 15.00 - 15.10 **M. Gagliardi**, N. Barbani and C. Cristallini (University of Pisa) *Design, fabrication and preliminary characterization of a bioartificial scaffold for tissue engineering*
- 15.10 - 15.20 **L. Golini**, D. Pasqui, M. De Cagna, , R. Barbucci (University of Siena) *A New Generation of Polysaccharide Hydrogels (Inter Penetrating Hydrogels) with Mechanical and Biological Properties Different from the Native Ones*
- 15.20 - 15.30 **M. Mattioli Belmonte**, C. Ferretti, S. Cometa, D. Cafagna, E. De Giglio (University Marche) *Electropolymerization of hydrogel coatings on Titanium implants: strategies to prevent implant-associated infections*
- 15.30 - 15.40 **P. Pisanti**, S. Cardea, E. Reverchon (University of Salerno) *Scaffolds Production For Medical Applications, Using Supercritical Co2*
- 15.40 - 15.50 **M.G. Raucci**, S. Zeppetelli, S. Meikle, M. Santin, L. Ambrosio (CNR, Napoli) *Injectable Gels Combining Calcium Phosphate/Phosphoserine Terminated Semi-Dendrimers for Bone Tissue Engineering Prepared by Sol-Gel Technology*
- 15.50 - 16.00 **A. Ruffini**, S. Sprio, A. Tampieri (CNR, Faenza) *Biomorphic Transformation in Regenerative Medicine: innovative scaffolds from natural hierarchical structures*
- 16.00 - 16.10 **M. Sandri**, A. Tampieri, T. D'Alessandro, E. Landi, L. Bertinetti (CNR, Faenza) *Biomimetic Fe Hydroxyapatite endowed with intrinsic magnetization*
- 16.10 - 16.30 Discussion
- 16.30 - 17.30 Social Members' Assembly
- 16.30 – 20.30 **Poster Session.** The authors should stand in front of the poster for discussion.
- 17.30 Wine and cheese tasting
- 20.30 - 22.30 **Gala Dinner** at Cenobio dei Dogi Hotel

Wednesday, May 26 2010 – Morning sessions

SIXTH SESSION: 9.00 – 10.30
CELL-BIOMATERIAL INTERACTION

Chairmen: M. Bosetti e G. Ciardelli

- 9.00 - 9.10 **A. Asti**, G. Gastaldi, R. Dorati, Conti B, L. Visai, E. Saino L. Gioglio, F. Benazzo (University of Pavia) *Human adipose-derived stem cells (hASCs) in osteogenic medium on PLGA, PLGA/HA and Titanium scaffolds*
- 9.10 - 9.20 **F. Baino**, E. Leonardi, G. Ciapetti, N. Baldini, O. Bretcanu, E. Verné, C. Vitale-Brovarone (Politecnico di Torino) *Synthesis, properties and biological interaction with human marrow stromal cells of glass ceramic P2O5-based resorbable scaffolds*
- 9.20 - 9.30 **F. Boccafoschi**, C. Mosca, M. Bosetti, B. Burlando, M. Cannas (University Piemonte Orientale) *Role of mechanical stretching in cell adhesion and related intracellular pathways*
- 9.30 - 9.40 C. Ressa, A. Tindiani, E. Morganti, C. Collini, **L. Lorenzelli**, A. Colombini, G. Lombardi, G. Banfi, F. Nason, G. Pennati, F. Boschetti, G. Dubini (Center for Materials and Microsystems, FBK, Trento) *A microfluidic platform for anti-osteoporosis drug screening: biocompatibility study of polymeric materials*
- 9.40 - 9.50 F. Munarin, **P. Petrini**, M.C. Tanzi (Politecnico di Milano) *Pectin – based Microcapsules for Cell Encapsulation*
- 9.50 - 10.00 **D. Pezzoli**, M. Sani, G. Tedeschi, A. Negri, R. Longhi, R. Chiesa, G. Candiani *Polymerizable redox-sensitive cationic oligo-peptides for gene delivery*
- 10.00 - 10.10 M. Parodi, A. Polini, **S. Scaglione**, D. Pisignano, R. Quarto (University of Genoa) *Nanofibrous ceramic-polymer based materials enhance the in vitro osteogenic differentiation*
- 10.10 - 10.30 Discussion
- 10.30 - 11.00 Coffee break

SEVENTH SESSION: 11.00 -12.00
NANOTECHNOLOGIES

Chairmen: V. Guarino e L. Rimondini

- 11.00 -11.10 **I. Armentano**, S. Mattioli, E. Fortunati, E. Saino, L. Visai, J.M. Kenny (University of Perugia) *Surface and antibacterial properties of plasma treated PLGA/Ag nanocomposites*
- 11.10 – 11.20 **F. D'Angelo**, I. Armentano, C. Del Gaudio, I. Cacciotti U. Reale, R. Tiribuzi, M. Dottori, A. Bianco, L. Visai, G.G. Cerulli, J.M. Kenny, S. Martino and A. Orlacchio. (University of Perugia) *Osteogenic Induction in human Bone Marrow Mesenchymal Stem Cells by Nanocomposite Scaffold*
- 11.20 – 11.30 C. Cristallini, **G. D. Guerra** (CNR, Pisa) *Molecularly Imprinted Polymeric Nanospheres for the Controlled Localized Drug Release and Targeting*
- 11.30 -11.40 L. Liverani, A. Di Martino, **A. Rainer**, F. Abbruzzese, C. Spadaccio, V. Denaro, M. Trombetta (University Campus Biomedico of Rome) *Crosslinked electrospun chitosan nanofibrous membranes for orthopaedic tissue engineering applications*
- 11.40 – 11.50 **D. Pasqui**, E. Arturonia, A. Atreia, G. Gianib, R. Barbucci (University of Siena) *TiO₂ Nanoparticles as Crosslinkers for the realization of polysaccharide hybrid hydrogels*
- 11.50 – 12.00 Discussion
- 12.00 - 12.15 SIB Award for the best oral communication
- 12.15 - 12.30 End of the Congress

Tuesday, May 25 2010 16.30 – 20.30

POSTER SESSION

- P1:** L. Altomare, L. Lozza, C. Stucchi, M.C. Tanzi, M. Nava, S. Farè.
Effects of radio-therapy on silicone breast implants.
- P2:** A.P. Alves, R.M. Ribeiro de Sousa, F. Munarin, P. Petrini, M.C. Tanzi.
Polyuronic acid gelification for biomedical applications.
- P3:** I. Armentano, E. Fortunati, F. D'angelo, S. Martino, A. Orlacchio, J.M. Kenny.
Carbon nanotubes and silver nanoparticles for multifunctional conductive polymer composites.
- P4:** N. Barbani, C. Cristallini, E. Rosellini, G.D. Guerra, M. Gagliardi, P. Giusti.
Polymeric supports in Polysulfone functionalized by Molecular Imprinting Technology for protein recognition.
- P5:** N. Bloise, M. Scavone, E. Saino, F. Bragheri, P. Minzioni, L. Fassina, L. Visai.
In vitro analysis of low - level laser irradiation on human osteoblast-like cells proliferation.
- P6:** F. Brandi, F. Anjum, A. Athanassiou.
Deep UV- laser Crosslinking of biodegradable polymer for bone tissue applications. Part I: Material synthesis, characterization and crosslinking.
- P7:** M. Brunelli, A. Lagazzo, M. Simonelli, D.T. Beruto.
PMMA, PMMA/TCP and PMMA/TCP/Rapamycin wettability in collagen.
- P8:** G. Candiani, D. Pezzoli, L. Ciani, A. Cigada, R. Chiesa, S. Ristori.
New Reducible Cationic Gemini Surfactant Containing Liposomes for Gene Delivery.
- P9:** L. Ceseracciu, A. C. Barone, F. Anjum, F. Brandi
Deep-UV laser crosslinking of biodegradable polymers for bone tissue applications. Part 2. Mechanical behaviour of photocured poly(propylene) fumarate.
- P10:** G. Cirillo, S. Hampel, U.G. Spizzirri, M. Curcio, O.I. Parisi, I. Altimari, A. Leonhardt, M. Ritschel, N. Picci.
Antioxidant CNTs: new materials for biomedical applications.
- P11:** T. D'Alessandro, A. Tampieri, M. Sandri, M. Banobre-Lopez, J. Rivas.
Hydroxyapatite doped with magnetic ions: iron, cobalt and manganese.
- P12:** F. D'Angelo, I. Armentano, R. Tiribuzi, S. Mattioli, U. Reale, S. Montesano, L. Crispoltoni, G.G. Cerulli, J.M. Kenny, C.A. Palmerini, S. Martino, A. Orlacchio.
Nanopatterned a-C:H forces hBM-MSCs Neural-mechanotransduction.

- P13:** S. Dante, M. Salerno, E. Marconi, F. Benfenati.
Guided adhesion and growth of neural networks by nano-drop printing system and characterization of the neuron-substrate interface.
- P14:** G. Da Ponte, A. Van Hoeck, P. Favia, S. Paulussen.
Atmospheric plasma deposition of PLA-like biodegradable coatings.
- P15:** R. De Santis, A. Gloria, T. Russo, U. D'amora, V. D'Antò, M. Catauro, S. Rengo, L. Ambrosio.
Hybrid titanium dioxide/polycaprolactone and zirconia/polycaprolactone composites for hard tissue engineering.
- P16:** L. Dolcini, M. Fiorini, A. Nicoletti, J. Paolillo, D. Pressato.
Development of a novel collagen/chitosan/MgHA-based bi-layered scaffold cross-linked with 1,4-Butanediol diglycidyl ether (BDDGE).
- P17:** L. Fassina, E. Saino, M.G. Cusella De Angelis, G. Magenes, L. Visai.
Low power ultrasounds as tool to culture human osteoblasts inside cancellous hydroxyapatite.
- P18:** C. Ferretti, M. Orciani, S. Manzotti, A. Gigante, F. Greco, M. Mattioli Belmonte.
Osteochondral Tissue Regeneration From Different Stem Cells.
- P19:** M.L. Focarete, C. Gualandi, M. Soccio, N. Lotti, M. Govoni, E. Giordano, L. Foroni, S. Valente, G. Pasquinelli.
New biodegradable polyesters for soft tissue engineering.
- P20:** P. Giannoni, D. Macciò, A. Saccone, R. Quarto, F. Rosalbino.
Novel Zr97.5 Nb2.5 and Zr97.5 Nb1.5Ta (at%) crystalline alloys for prosthetic devices: alloys characterization and preliminary biocompatibility assays.
- P21:** M. Gioffrè, B. Bracci, S. Panzavolta, K. Rubini, A. Bigi.
Effect of pH on the properties of gelatin films.
- P22:** A. Gloria, R. De Santis, T. Russo, U. D'Amora, S. Zeppetelli, C. Dionigi, A. Dediu, L. Ambrosio.
Effect of iron oxide nanoparticles on the performances of 3D fiber-deposited poly(ϵ -caprolactone)-based scaffolds.
- P23:** C. Gualandi, M.L. Focarete, M. Govoni, E. Giordano, L. Foroni, S. Valente, G. Pasquinelli.
Effect of ethanol treatment on Poly(L)lactic acid electrospun fibre morphology.
- P24:** A. Guaccio, M.A. Alvarez-Perez, V. Guarino, V. Cirillo, P.A. Netti, L. Ambrosio.
Influence of micro/nanotexture of electrospun membranes on cell metabolism and material interaction.
- P25:** V. Guarino, L. Ambrosio.
Manufacturing fully interconnected porous scaffolds by temperature driven processes.
- P26:** E. Landi, F. Valentini, A. Tampieri, S. Scaglione, R. Quarto.
Development of Hydroxyapatite/Wollastonite scaffolds.

- P27:** A. Milella, R. Gristina, M. Nardulli, P. Favia, R. d'Agostino.
Osteo-compatibility of plasma-deposited organosilicon films.
- P28:** L. Odorizzi, C. Ressa, C. Collini, E. Morganti, L. Lorenzelli, N. Coppedè, A.B. Alabi, S. Iannotta, L. Vidalino, P. Macchi.
An integrated platform for single-site cell electroporation.
- P29:** S. Panzavolta, A. Bigi, B. Bracci, M.L. Focarete, C. Gualandi
Incorporation of biodegradable electrospun fibers into calcium phosphate bone cement
- P30:** R. Piccardo, M. Sanscritto, E. Finocchio, G. Facco, A. Rebaudi, F. Barberis.
Dental Implants of Innovative Design: Experimental Characterization of Mechanical Properties and Bone-Implant Surface Interaction.
- P31:** M.G. Raucci, V. Guarino, V. D'Antò, L. Ambrosio.
Preparation and Bioactivation of Sol-Gel Scaffolds for Bone Tissue Engineering.
- P32:** A. Rebaudi, A. Itri, G. Facco.
Evaluation of Bone And Hard Biomaterials using Microcomputed Tomographic Technique.
- P33:** L. Russo, N. Shaikh, L. Cipolla, F. Nicotra, C. Riccardi, S. Zanini, E. Landi, A. Tampieri, F. Valentini, P. Giannoni, R. Quarto.
Functionalisation of a hydroxyapatite three-dimensional scaffold by plasma technology and biological evaluation.
- P34:** E. Saino, S. Grandi, N. Bloise, M. Scavone, L. Fassina, P. Mustarelli, L. Visai.
In vitro bone matrix deposition by SAOS-2 cells onto a zinc-containing bioactive glass.
- P35:** M. Sanscritto, R. Piccardo, T. Vercellotti, G. Facco, E. Finocchio, F. Barberis.
Dental implants of innovative design: comparative evaluation of the instrumental preparation techniques and their impact on bone tissues.
- P36:** M. Scavone, N. Bloise, E. Saino, L. Spinelli, L. Fassina, S. Mantero, R. Martinetti, L. Visai.
Three-Dimensional Perfusion culture of osteosarcoma cell line SAOS-2 by bidirectional flow.
- P37:** M. Simonelli, M. Spinelli, A. Lagazzo, S. Affatato, D.T. Beruto.
Study on the representativeness of an established polymer wear debris isolation protocol and analysis of vitamin-E influence on ultra-high molecular weight polyethylene wear debris.
- P38:** F. Tessarolo, M. Lorenzato, I. Caola, F. Piccoli, G. Nollo, P. Caciagli.
Setting-up of a staphylococcal biofilm reactor for testing antimicrobial central venous catheters.