



COST Action MP1301 NEWGEN

New Generation Biomimetic and Customized Implants for
Bone Engineering

**Working Groups & Scientific Workshop
Biomaterials for Dental and Orthopedic Applications**

Cluj Napoca, Romania

13 - 15 March, 2017

www.cost-newgen.org



Working Groups & Scientific Workshop
Biomaterials for Dental and Orthopedic Applications
13 - 15 March, 2017, Cluj Napoca, Romania

PROGRAM

Monday March 13th, 2017

14:00 – 18:00 MC Meeting – only for MC members

Tuesday March 14th, 2017

08:30 – 09:35 Registration

09:35 – 09:50 Welcome/Opening

09:50 – 10:10 Fernando J. Monteiro, University of Porto (Portugal): “Ceramic and polymer based scaffolds for Bone Tissue Regeneration, Drug Releasing and to inhibit bacterial adhesion”

10:10 – 10:30 Probal Basu, Tomas Bata University in Zlin (Czech Republic): “Calcium phosphate filled bacterial cellulose based hydrogel scaffolds for dental and orthopedic application”

10:30 – 11:00 Coffee/Tea break + posters session

11:00 – 11:30 José Luis Gomez Ribelles, Center for Biomaterials and Tissue Engineering, Universitat politècnica de València (Spain): “*Expansion and osteogenic differentiation of human bone marrow MSC on protein or polysaccharide functionalized supports*” (Invited)

11:30 – 11:50 Arkaitz Mucientes, Instituto de Investigación Sanitaria San Carlos (IdISSC – Spain): “*Study of the differential behavior in osteogenic differentiation of h-MSCs on nano β -TCP scaffolds due to their origin*”

11:50 – 12:10 Aylin Sendemir Urkmez Ege University, Department of Bioengineering (Turkey): “*Vascularization strategies for bone tissue engineering using endothelial progenitor cells*”

12:10 – 12:50 Lunch + Group photo

12:50 – 13:10 Diana Rabadjieva, Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences (Bulgaria): “*Calcium phosphate based bio-materials applicable in orthopedic and dental medicine*”

13:10 – 13:30 Stefan Scheiner, Vienna University of Technology (Austria): “*Mechanical characterization of bone tissue engineering scaffold through X-ray physics-based analysis of CT images*”

13:30 – 13:50 Chaozong Liu, University College London (UK): *“Stable mechanical fixation of osteochondral scaffold supports overlying cartilage regeneration”*

13:50 – 14:40 *Posters session*

14:40 – ... *Visit to Salt Salina Turda*

19:00 – 24:00 *Workshop Dinner*

Wednesday March 15th, 2017

09:00 – 09:20 Yannis Missirlis, University of Patras (Greece): *“Bioreactors for orthopedic applications”*

09:20 – 09:40 Christèle Combes, Institut National Polytechnique de Toulouse (France): *“New calcium pyrophosphate glasses for bone substitution applications”*

09:40 – 10:00 Daniel Bomze, Lithoz GmbH (Austria): *“Patient-tailored biodegradable ceramics produced by lithography-based ceramic manufacturing (LCM)”*

10:00 – 10:20 Nabanita Saha, Tomas Bata University in Zlin (Czech Republic): *“Evaluation of the in-vitro cytotoxicity of calcite filled PVP-CMC hydrogel for dental and orthopedic applications”*

10:20 – 11:00 *Coffee/Tea break + posters session*

11:00 – 11:30 Razvan Stefan, Faculty of Veterinary Medicine (Romania): *“Synergetic borophosphate glasses”* (Invited)

11:30 – 11:50 Aleksandra Vulovic, Faculty of Engineering, University of Kragujevac (Serbia): *“Bioimplants for HIP replacement”*

11:50 – 12:10 Julia Rogowska-Tylman, Institute of High Pressure Physics, Laboratory of Nanostructures (Poland): *“Ultrasonic coating as a method of medical implants surface modification with bioactive nanoparticles”*

12:10 – 12:50 *Lunch*

12:50 – 13:10 Lia Rimondini, Università del Piemonte Orientale (Italy): *“Multifunctional Bioceramics: how to seek a draw in the race for the surface”*

13:10 – 13:30 Madalina-Anca Lazar, University of Medicine and Pharmacy IULIU HAȚIEGANU (Romania): *“Biological behavior of new glass fiber reinforced composite for cranio-facial bone reconstruction”*

13:30 – 13:50 Maria Tomoaia-Cotisel, Babes-Bolyai University (Romania): *“Multifunctional ceramics for enhanced adhesion, growth and proliferation of human osteoblasts”*

13:50 – 14:40 *Posters session*

14:40 – ... *Visit to Ethnography Museum of Park + Ethnography Museum of Transylvania + city tour*

18:30 – 20:00 *Dinner*

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Organizing Committee:

- **Dr. Stéphane Hocquet** (MC Chair)
Belgium Ceramic Research Centre, Mons, Belgium
- **Dr. Paola Palmero** (Cost Action Vice Chair)
Politecnico di Torino, Torino, Italy
- **Dr. Stéphane Hocquet** (STSM Coordinator)
Belgium Ceramic Research Centre, Mons, Belgium
- **Véronique Huart** (Grant Holder Manager)
Belgium Ceramic Research Centre, Mons, Belgium
- **Dr. Anne Leriche** (Website Coordinator)
Universite de Valenciennes et Hainaut Cambresis, France
- **Dr. Eamonn Debarra** (Dissemination Coordinator)
University of Limerick, Ireland
- **Dr. Carmen Baudin** (WG1 Leader)
Instituto de Ceramica y Vidrio, CSIC, Madrid, Spain
- **Dr. Jérôme Chevalier** (WG2 Leader)
National Institute of Applied Science (INSA), Villeurbanne Cedex, France
- **Dr. Erik Adolfsson** (WG3 Leader)
Swerea IVF AB, Molndal, Sweden
- **Dr. Fernando J. Monteiro** (WG4 Leader)
INEB- Instituto de Engenharia Biomedica

Local Organizing Committee:

Dep. of Dental Materials, Raluca Ripan Institute of Research in Chemistry, Romania

- **Dr. Gabriel Furtos** (Local Chair)
- **Dr. Marioara Moldovan**
- **Dr. Cristina Prejmerean**
- **Dr. Laura Silaghi-Dumitrescu**

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ABSTRACTS

ORAL COMMUNICATIONS

Tuesday 14th March



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ABSTRACTS

ORAL COMMUNICATIONS
Wednesday 15th March



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LIST AND ABSTRACTS

POSTERS

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List of Posters

1. **Collagen-based composites for barrier periodontal membranes**
Baltazar, J, Esteves, E, Barros, M, Costa MEV, **Fernandes, MHV**
2. **DEVELOPMENT OF BIPHASIC SCAFFOLDS FOR OSTEOCHONDRAL TISSUE ENGINEERING**
Jovana Zvicer, Marko Deak, Ana Gantar, Djordje Veljovic, Sasa Novak, **Bojana Obradovic**
3. **Stabilised ZIRCONIA porous ceramic prepared by sol-gel synthesis AND coated with bioactive CaP groWn in metastable calcifying solution**
A. Gajović, J. Macan, M. Sikirić, M. Plodinec, M. Čeh, R. Bermejo, M. Deluca
4. **IMPARTING ANTIBACTERIAL ACTIVITY TO NANOMETRIC HYDROXYAPATITE**
L.Teixeira, P.A. Quadros, **M.E.V. Costa**, M.M. Almeida
5. **Investigating the possibility of manufacturing the composite from nanocrystalline hydroxyapatite and silk fibers and study of its selected properties**
Maria Małysa, Tadeusz Chudoba, Elżbieta Pietrzykowska, Sylwia Dąbrowska, Agnieszka Omiotek, Roman Mukhovskiy, Witold Łojkowski
6. **PRECLINICAL ORTHOPEDIC EXPERIENCE: LABORATORY OF PRECLINICAL AND SURGICAL STUDIES**
Francesca Veronesi, Milena Fini
7. **PROCESSING DENTAL CERAMICS BY STEREOLITHOGRAPHY: INFLUENCE OF printed LAYER's orientation.**
Marion Dehurtevent, Pascal Béhin, Anthony Thuault, Lieven Robberecht, Fabrice Petit, Anne Leriche, Jean-Christophe Hornez.
8. **NEW AND EMERGING STRATEGIES IN SPINAL FUSION PROCEDURES: FROM PRECLINICAL RESEARCH TO CLINICAL SCENARIO**
Francesca Salamanna, Milena Fini
9. **Double-doped calcium phosphates prepared in various reaction media**
Kostadinka Sezanova, Diana Rabadjieva, Romyana Gergulova, Radost Ilieva, Stefka Tepavitcharova
10. **Inorganic composite materials based on calcium phosphates and titanate nanowires**
Ines Bosak, Ivana Jerčinović, Damir Iveković, Jelena Macan, Marc Wilinger, Vesna Babić-Ivančić, Andreja Gajović, **Maja Dutour Sikirić**

- 11. EUCALYPTUS GLOBULUS AND SALVIA OFFICINALIS AS ANTIOXIDATIVE AND ANTIMICROBIAL AGENTS FOR ORTHOPEDIC SILICONE RUBBER**
Virginija Jankauskaite, Aiste Lisauskaite, Mindaugas Liaudanskas, Valdimaras Janulis
- 12. THE INFLUENCE OF HYDROXYAPATITE PARTICLES ON STRUCTURE OF ELECTROSPUN MATS FROM EUDRAGIT S100**
Evaldas Bolskis, Erika Adomavičiūtė, Sigitas Stanys, Justė Baranauskaitė, Jurga Bernatoniėnė
- 13. Primary cell cultures from mouse bone explants as model systems for biocompatibility assessment of new materials for bone implants**
Radostina Alexandrova, Tanya Zhivkova, Lora Dyakova, Boyka Andonova-Lilova, Abedulkadir Abudalleh, Desislav Dinev, Diana Rabadjieva, Stefka Tepavitcharova, Nabanita Saha, Orlin Alexandrov
- 14. Preparation, Characterization and Biological Activity of New Biomimetics for Bone Tissue Engineering**
T. Vladkova, M. Albu-Kaya, L. Radev, A. Staneva, I. Titurencu, I. Ivanova
- 15. MULTIFUNCTIONAL BIOCERAMICS: HOW TO SEEK A DRAW IN THE RACE FOR THE SURFACE**
Andrea Cochis, Barbara Azzimonti, Lia Rimondini
- 16. FROM BIOMATERIALS AND MULTIFUNCTIONAL INTERFACES TO BONE TISSUE ENGINEERING**
Aurora Mocanu, Cristina Prejmerean, Ioana Hodisan, Lucia Timis, Marius Bud, Oana Cadar, Cecilia Roman, Maria Tomoaia-Cotisel
- 17. Hydroxyapatite biomimetic ceramic synthesized by a novel sol-gel method**
Alexandra Avram, Firuta Goga, Aurora Mocanu, Maria Tomoaia-Cotisel
- 18. FORSTERITE-BASED BIOCERAMICS FOR MEDICAL APPLICATIONS**
Maria GOREA, Marieta-Adriana NAGHIU, Nicolae HAR, Ioan PETEAN, Maria TOMOAI-A-COTIȘEL
- 19. PRELIMINARY RESEARCH ON USING α -CALCIUM SULPHATE HEMIHYDRATE IN DENTAL APPLICATIONS**
Gorea Maria, Jako Timea, Bartha Julia
- 20. Microleakage and interface morphology of dental giomer restorations using two experimental adhesive systems**
Hodisan Ioana, Prejmerean Cristina, Furtos Gabriel, Petean Ioan, Prodan Doina, Buruiana Tinca, Colceriu Loredana, Tomoaia-Cotisel Maria
- 21. Copper containing borate glasses for biological applications**
Cristina Lelescu, Aurel Muste, Razvan Stefan

About Cluj Napoca

Settled along the Someş river, Cluj-Napoca (Kolozsvár, Klausenburg) city is one of the most important academic, cultural and industrial centers in Romania. Considered to be the historic capital of Transylvania, the city is located in northwestern part of Romania and it is one of the most visited cities in the country.

The city spreads circle-wise from St. Michael's Church – built in 14th century – named after Michael the Archangel, the patron saint of Cluj-Napoca.

Many hotels and restaurants as well as museums, historical or archaeological monuments, galleries, botanical garden, shopping centers, banks or exchange offices are within walking distances from the conference site.

The climate in Cluj-Napoca is relaxing and refreshing due to a relatively constant temperature (winter average - 1.9 °C, summer average: 18.7 °C). During June, the weather is pleasant with the ambient temperature varying normally between 15-25°C.

More information about Cluj-Napoca and a digital map of the city can be found here:

<http://www.romaniatourism.com/cluj.html>

About Babes-Bolyai University

The Babes-Bolyai University (UBB—Universitatea Babes-Bolyai) in Cluj-Napoca is the largest university in Romania. With almost 50,000 students, the university offers 105 specialisations, of which there are 98 in Romanian, 52 in Hungarian, 13 in German, and 4 in English. The university was named after two prominent Transylvanian scientists, the Romanian scientist Victor Babes and the Hungarian mathematician János Bolyai.

Ethnography Museum of Transylvania

The Ethnographical Museum of Transylvania is the first ethnographical museum in Romania that unfolded its activity continuously since it was founded. This institution gathered with patience and scientific competence, in the 8th decades of its activity, tens of thousands of proofs of the traditional civilization in the Romanian space.

We invite you to visit the 5th permanent exhibition of our museum named: Folk Culture in Transylvania - 18th - 20th centuries. The exhibition is open between 9 a.m. and 5 p.m., from Tuesday to Sunday.

Museums

- University Museum
- Museum of Mineralogy
- Botanical Museum
- Paleontology-Stratigraphy Museum
- Vivarium
- Zoological Museum

Practical Information

University Guest House of Babes Bolyai University,

Str. Pandurilor nr. 7
Cluj Napoca 400376
Romania

Some of the taxi companies in Cluj-Napoca:

Nova Taxi - (0264) 949, +40-745 151000

Diesel Rapid - (0264) 946

Taxi Pritax - 0264/942

Money in Romania

The currency in Romania is the New Lei (RON),

Foreign currencies can be exchanged at banks and in many exchange offices located in different places of the town. Many cash dispensers are found, accepting any type of international credit cards.

Banking hours are from 9:00 – 17:00. Saturdays and Sundays banks are closed.

Turist Info

Cluj Tourist Information Centre (Centrul de Informare Turistica)

Address: Blvd. Eroilor 6-8, Telephone: (264) 452.244 or 452.249

Email: info-tourism@primariaclujnapoca.ro

The Tourist Information Centre provides maps, brochures and information on accommodations, restaurants and transportation.

Telephoning Cluj Napoca from Abroad

International Access Code + 40 (country code) + 264 or 364 (area code) + telephone number (six digit number)

Pharmacies & Hospitals

There are several pharmacies (farmacie) open 24 hours a day in the city. Emergency Clinic Hospital (Spitalul Clinic Judetean de Urgenta Cluj). Address: Str. Clinicilor 3-5, Tel: (264) 592.771

Cluj-Napoca - Useful Telephone Numbers

Cluj-Napoca Area Code (Prefix Cluj-Napoca) 264 or 364

Ambulance (Ambulanta) 961

Police (Politia) 955

Fire Department (Pompierii) 981

Local & County Archives (Arhivele locale) (264) 598.979

City Hall (Primaria) (264) 196.030

Better Business Bureau (264) 431.368

International calls (Convorbiri internationale) 971

SHOPPING

There are two of the biggest malls: Iulius Mall and Polus Center. You can also visit Sora Shopping Center, Central Shopping Center.

Map of the city



University Guest House of Babes Bolyai University,
 Str. Pandurilor nr. 7
 Cluj Napoca 400376
 Romania

