

# SCIENTIFIC PROGRAMME

## International Seminar on Biomaterials and Regenerative Medicine - BIOREMED 2017

- Today's research for tomorrow medicine –

*Timișoara, România  
October 05<sup>th</sup> -07<sup>th</sup>, 2017*

### THURSDAY, October 05<sup>th</sup>, 2017

- 08.00 – 18.30     **Registration**  
*GROUND FLOOR, Victor Babeș University for Medicine and Pharmacy Timișoara*
- 08.30 – 09.00     **Opening Ceremony**  
*AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara*
- 09.00-11.30     **Session Plenary Keynote Conferences 1**  
*Chairs: Charles James Kirkpatrick (Germany), Meda-Lavinia Negrutiu (Romania)*  
*AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara*
- 09.00-09.30     **Charles James Kirkpatrick (Germany)** - *Self-organizing systems in Regenerative Medicine*
- 09.30-10.00     **Adrian Gh. Podoleanu (U.K.)** - *Translating optical coherence tomography from medical to non destructive testing of materials*
- 10.00-10.30     **Iulian Antoniac (Romania)** - *Metallic biomaterials and their importance to medical applications*
- 10.30-11.00     **Yasuhiko Tabata (Japan)** - *Release technology of cell recruitment molecules to induce in situ tissue regeneration therapy*
- 11.00-11.30     **Discussions**
- 11.30-11.50     **Coffee break**  
**Poster Session**  
*Chairs: Angela Kamer (USA), Melinda Szekely (Romania), Cristina-Maria Borșun (România)*  
*IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara*
- 11.50-14.00     **Session Plenary Keynote & Invited Conferences 2**  
*Chairs: Adrian Podoleanu (UK), Cosmin Sinescu (Romania)*  
*AULA MAGNA, Victor Babeș University for Medicine and Pharmacy Timișoara*
- 11.50-12.20     **Norina Consuela Forna (Romania)** - *Oral rehabilitation, between classic and minim invasive*
- 12.20-12.50     **Marius Traian Lerețter (Romania)** - *Immediate implant loading in periodontal affected patients using autologous restorative material*
- 12.50-13.20     **Angela R. Kamer (USA)** - *Peripheral infections/inflammations and Alzheimer's disease: the periodontal link*
- 13.20-13.40     **Kinga Laczóné Turzó (Hungary)** - *Surface modification and biointegration of dental implants*
- 13.40-14.00     **Wenche S. Borgnakke (USA)** - *The traveling oral microbiome - and its different compositions related to various restorative materials*
- 14.00 – 15.00     **Lunch break (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)**  
**Poster Session**  
*Chairs: Virgil-Florin Duma (Romania), Cosmin M. Cotrut (Romania), Ioana Csaki (Romania)*  
*IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara*

15.00 – 16.30 **Session BIOMATERIALS 1: Invited Conferences & Oral Presentations**

**Chairs:** Kunio Ishikawa (Japan), Virgil-Florin Duma (Romania)

**AULA MAGNA, UMF "Victor Babeş Timișoara -**

- 15.00 – 15.20 **Florin Miculescu (RO)**– Sustainable use of biogenic resources for developing calcium phosphates bioceramics and microcomposites
- 15.20-15.40 **Hyungsuck Cho (Korea)** - Recent Advances in Biomedical Optical Imaging: The Role of Optomechatronic technology
- 15.40–16.00 **Virgil-Florin Duma (RO)**- Biomedical imaging with Optical Coherence Tomography. Systems and applications
- 16.00 – 16.10 **Florina D. Ivan, Vera Balan, Maria Butnaru, Ionel M. Popa, Liliana Verstiuc** - Magnetic scaffolds based on biopolymers-calcium phosphates mixtures and inclusions of SPIONs for bone tissue regeneration
- 16.10 – 16.20 **Lucian Toma Ciocan, Bogdan Gălbinașu, Claudiu Calin, Roxana Ilici, Ion Pătrașcu** - Clinical evaluation of modern minimal invasive ceramic systems
- 16.20 – 16.30 **Claudiu Călin, Lucian Toma Ciocan, Bogdan Gălbinașu, Ion Pătrașcu** - Histomorphometric analysis of postextractional osseous defects treated with beta-tricalcium phosphate and platelet-rich fibrin

15.00 – 16,30 **Session DENTAL BIOMATERIALS 1: Invited Conferences & Oral Presentations**

**Chairs:** Cristina Maria Borțun (Romania), Veronica Mercuț (Romania), Diana Dudea (Romania)

**SENAT HALL, Victor Babeş University for Medicine and Pharmacy Timișoara**

- 15.00 – 15.20 **Veronica Mercuț (Romania)** - OCT aspects in dental wear
- 15.20 – 15.40 **Diana Dudea (Romania)** - Visual versus instrumental methods for the evaluation of the dental bleaching
- 15.40 – 16.00 **Cristina Maria Borțun (Romania)** – Experimental studies on dental resins
- 16.00 – 16.10 **Cristina Gasparik, Justine Decroix, Mihai Varvara, Alexandru Victor Burde, Bogdan Culic, Diana Dudea** - Influence of Coffee Staining on the Optical Properties of New Chair-side CAD-CAM Materials
- 16.10 – 16.20 **Greta Delia Cristina, Gasparik Cristina, Dudea Diana** - Study upon the color matching of full coverage esthetic crowns
- 16.20 – 16.30 **Sorana Baciu, Cristian Berece, Marius Manole, Adrian Florea, Alexandru Victor Burde, Andrada Voina Tonea** - Comparison of two evaluating methods for establishing the marginal fit of heat pressed resin inlays

16.30-16.50 **Coffee break**

**Poster Session**

**Chairs:** Veronica Mercuț (Romania), Diana Dudea (Romania)

**IAGNOV HALL, Victor Babeş University for Medicine and Pharmacy Timișoara**

16.50 – 18,30 **Session BIOMATERIALS 2: Invited Conferences & Oral Presentations**

**Chairs:** Sigrun Knutsdottir (Iceland), Corneliu Munteanu (Romania), Gheorghe Dan (Romania)

**AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara**

- 16.50-17.10 **Cosmin M. Cotrut (Romania)** - Coatings used in prosthetic dentistry for ceramics adherence enhance
- 17.10-17.30 **Mirabela Georgiana Minciună (Romania)**- Cobalt-chromium alloys with improved properties for dental applications
- 17.30-17.50 **Istrate Bogdan (Romania)**- Influence of Yttrium in Mg-1Ca-0.5Mn-nY biodegradable alloys (n = 1,2,3)
- 17.50-18.00 **Diana M. Vranceanu, Alina Vladescu, Mihaela Dinu, Anca Parau, Cosmin Cotrut** - Ag doped hydroxyapatite bioactive coatings for medical applications
- 18.00-18.10 **Ioana Csaki, Sigrun Nanna Karlsdottir, Vlad Motoiu, Magdalena Lungu** - Composite coatings designed for corrosive environments
- 18.10-18.20 **Liliana Porojan, Lucian Rusu, Adrian Boloș, Cristina Savencu, Sorin Porojan** - Assessment of the fracture behavior of bilayered zirconia-ceramic and metal-ceramic crowns
- 18.20-18.30 **Sorin Porojan, Mihaela Bîrdeanu, Cristina Savencu, Liliana Porojan** - Topographical and quantitative evaluation of Co-Cr dental alloys roughness related to the manufacturing technology

16.50 – 18.30 **Session DENTAL BIOMATERIALS 2: Invited Conferences & Oral Presentations**

**Chairs:** Mihai Romînu (Romania), Sanda Mihaela Popescu (Romania), Cristian Rațiu (Romania)

**SENAT HALL**, Victor Babeș University for Medicine and Pharmacy Timișoara

- 16.50 – 17.10 **Sanda Mihaela Popescu (Romania)**- *The behavior of dental filling materials used for abfraction lesions*
- 17.10 – 17.30 **Mihai Romînu (Romania)** - *Clinical and structural considerations of some direct composite material*
- 17.30 – 17.50 **Monica Scrieci (Romania)** - *Histopathological and immunohistochemical aspects of paraprosthodontic gingival mucosa lesions induced by Ni-Cr metal alloys*
- 17.50 – 18.00 **Anca Porumb, R. Matei, Simona Cavalu, R.A.Popovici, L. Todor** - *The glass ionomer cement reinforced with silver – premise in choosing the teeth extracted for orthodontic purpose: a case study*
- 18.00 – 18.10 **Ruxandra Matei, Liana Todor, Ioniță Chiculiță, Anne-Marie Rauten, Anca Porumb** - *Tensile testing experimental models for measuring the adhesion strength of dental composites - a critical reviews*
- 18.10 – 18.20 **Cristian Rațiu, Ruxandra Matei, Liana Todor, Adrian Almași, Ioniță Chiculiță, Anca Porumb** - *Dental composites - physical and mechanical properties determination and values. A critical review*
- 18.20 – 18.30 **Varvara Adrian Mihai, Gasparik Cristina, Culic Bogdan, Bondor Cosmina Ioana, Varvara Elena Bianca, Furtos Gabriel, Moldovan Marioara, Ducea Diana** - *Radiopacity of chairside CAD CAM milling materials*

19.00 *Official Reception (Baroque Hall, Art Museum Timișoara, 1 Union Square)*

**FRIDAY, October 06<sup>th</sup>, 2017**

09.00-11.30 **Session Plenary Keynote Conferences 3**

**Chairs** Guy Daculsi (France), Iulian Antoniac (Romania)

**AULA MAGNA**, Victor Babeș University for Medicine and Pharmacy Timișoara

- 09.00-09.30 **Guy Daculsi (France)** - *Orthobiology and bone regeneration, from R&D to clinical performance*
- 09.30-10.00 **Ahmed El-Ghannam (USA)**- *Mechanism of Bone Reconstruction in Diabetic Patients Grafted with SCPC Bioactive Ceramic*
- 10.00-10.30 **Corrado Piconi (Italy)** - *Metal-free Dental Implantology: Zirconia, what's Next?*
- 10.30-11.00 **Ilaria Cacciotti (Italy)** – *Electrospun fibrous mats as promising platforms for regenerative medicine*
- 11.00-11.30 **Kunio Ishikawa (Japan)** - *Fabrication and Tissue Response to Self-setting  $\beta$ -Tricalcium Phosphate Granules Cement*

11.30-11.50 **Coffee break**

**Poster Session**

**Chairs:** Ilaria Cacciotti (Italy), Răzvan Adam (Romania)

**IAGNOV HALL**, Victor Babeș University for Medicine and Pharmacy Timișoara

11.50-13.50 **Session Plenary Keynote Conferences 4**

**Chairs:** Franco Rustichelli (Italy), Florin Miculescu (Romania), Dan Lăptoiu (Romania)

**AULA MAGNA**, Victor Babeș University for Medicine and Pharmacy Timișoara

- 11.50-12.20 **Lia Rimondini (Italy)**– *Multifunctional bioceramics: how to seek a draw in the race for the surface*
- 12.20-12.50 **José Miguel Martín Martínez (Spain)**- *New flexible polyurethane foams for filling residual pleural cavities in lungs*
- 12.50-13.20 **Franco Rustichelli (Italy)**- *From tissue engineering in orthopedy and dentistry to regenerative cardiology and neurology*
- 13.20-13.50 **Cătalîn Cirstoiu (Romania)** - *Modular reconstruction systems - viable biomechanical options after oncologic or critical bone defects surgery*

13.50 – 15.00 **Lunch break** (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)

**Poster Session**

**Chairs:** Horia Manolea (Romania), Lucian-Toma Ciocan (Romania), Marius Manole (Romania)

**IAGNOV HALL**, Victor Babeș University for Medicine and Pharmacy Timișoara

15.00 – 16.50 **Session BIOMATERIALS IN ORTHOPEDICS 1: Invited Conferences & Oral Presentations**  
**Chairs:** Cătalin Cirstoiu (Romania), Adrian Barbilian (Romania), Marius Niculescu (Romania)  
**AULA MAGNA**, Victor Babeş University for Medicine and Pharmacy Timișoara

15.00 – 15.20 **Olivera Lupescu (Romania) – Failures in bone grafting**

15.20 – 15.40 **Răzvan Ene (Romania) – Material analysis and biomechanical concept in trauma implant failure**

15.40 – 15.50 **Răzvan Turcu, Marius Moga, Adrian Barbilian – Cemented hemiarthroplasty in elderly after complex fracture of the proximal humerus**

15.50 – 16.00 **Marius Moga, Augustin Semenescu, Mihnea Cosmin Costoiu, Ileana Mariana Mateș, Cezar - Ionuț Călin, Catalin Gheorghe Amza, Mark-Edward Pogărășteanu – An alternative femoral stem – bone implantation technique using an innovative short femoral stem endoprosthesis**

16.00 – 16.10 **Mark-Edward Pogărășteanu , George Dinache , Marius Moga, Adrian Barbilian – Difficulties in signal transmission across the interface between skin and surface electrodes in myoelectric forearm and hand exoprosthesis**

16.10 – 16.20 **Oltean-Dan D. , Dogaru GB, Apostu D. , Toader S. , Tomoaia-Cotisel M., Tomoaia Gh – Comparative study regarding the efficacy of the treatment with short pulse waves in femoral fractures operated with titanium and collagen coated titanium intramedullary nails on murine models**

16.20 – 16.30 **Răzvan Ene, Zsombor Panti, Mihai Nica, Mihnea Popa, Marian Pleniceanu, Monica Cirstoiu, Iulian Antoniac, Catalin Cirstoiu– Posterior cruciate ligament reconstruction with femoral cortical suspension devices in young patients**

16.30 – 16.40 **Răzvan Ene, Mihnea Popa, Mihai Nica, Zsombor Panti, Marian Pleniceanu, Monica Cirstoiu, Catalin Cirstoiu– Enhancing Tissue Regeneration by using Negative Pressure Therapy in Infected Limb Injuries**

16.40 – 16,50 **Dan Cristian Paul, Paiusan Mihai Gheorghe, L-Dan Daniel, Tomoaia Gheorghe- Allergic reaction and reproductive toxicity caused by nickel**

15.00 – 16.50 **Session DENTAL BIOMATERIALS 3: Invited Conferences & Oral Presentations**

**Chairs:** Kiro Papakoca (FYROM), Horia Manolea (Romania), Kamel Earar (Romania)

**SENAT HALL**, Victor Babeş University for Medicine and Pharmacy Timișoara

15.00-15.20 **Kiro Papakoca (FYROM)- Current biomaterials and surgical techniques used in oral implantology**

15.20-15.40 **Horia Manolea (Romania)- Evaluation of two socket preservation materials osseointegration in small diameter bone cavities. An in vivo lab rats study**

15.40-15.50 **Ondine Lucaciu, Anca Ionel, Olga Soritau, Cristi Berce,Dragos Apostu,Flaviu Tăbăran, Roxana Bordea, Radu Septimiu Câmpian - Dental Follicle Stem Cells as a biomaterial for periodontal regeneration. A “proof-of-concept” study.**

15.50-16.00 **Serban Talpos, Costin Timofte, Horatiu Urechescu, Felicia Streian, Mircea Rivis, Tareq Hajaj, Marius Pricop - Clinical Advantages Of Biomaterials Used In Guided Bone Regeneration (GBR)**

16.00-16.10 **Horatiu Urechescu, Sergiu-Valentin Galatanu, Marius Pricop, Șerban Talpos - Experimental compression and traction tests on heat-cured PMMA and thermoplastic materials used for fabrication of maxillary obturator prostheses**

16.10-16.20 **Alexandru Andrei Iliescu, Paula Perlea, Sorin Daniel Porojan, Liliana Porojan, Kamel Earar - Thermographic analysis of burs and bone heating developed during osteotomy for dental implant placement: an in vitro study-**

16.20-16.30 **Daniela Tănase, Elena Amăricăi - Interdisciplinarity in the rehabilitation of patients with sclerodermia**

16.30-16.40 **Roxana Bordea, Stavros Pelekanos, Simion Bran, Florin Onișor, Marius Manole, Sorana Baciu, Ondine Lucaciu, Iulian Antoniac ,Radu Septimiu Câmpian - Effect of laser activation on an experimental biomaterial**

16.40-16.50 **Roxana Bordea, Ondine Lucaciu, Radu Septimiu Câmpian, Sorana Baciu, Bran Simion, Iuliu Antoniac, Marius Manole - Assessment of colour changes and light transmission through nano-hybrid dental composite biomaterials during curing**

16.40-17.00 **Coffee break**

**Poster Session**

**Chairs:** Istrate Bogdan (Romania), Mirabela Georgiana Minciună (Romania)

**IAGNOV HALL**, Victor Babeş University for Medicine and Pharmacy Timișoara

17.00 – 19.00 **Session BIOMATERIALS IN ORTHOPEDICS 2: Invited Conferences & Oral Presentations**

**Chairs:** Olivera Lupescu (Romania), Răzvan Ene (Romania)

**AULA MAGNA**, Victor Babeş University for Medicine and Pharmacy Timișoara

- 17.00 – 17.20 **Olivera Lupescu (Romania)** – *Biomaterials in stabilizing tibial plateau fractures- vocational training enhancing the surgical skills*
- 17.20 – 17.30 **Răzvan Adam, Iulian Antoniac, Mark Pogarasteanu**– *Bisphosphonates influence on bone metabolism - Atypical Femur Fractures*
- 17.30 – 17.40 **Luminita Labusca, Dumitru Daniel Herea, Ecaterina Radu, Horia Chiriac, Nicoleta Lupu** - *Fe-Cr-Nb-B Magnetic Nanoparticles interaction with human mesenchymal stem cells*
- 17.40 – 17.50 **Mihail Nagea, Olivera Lupescu, Taina Avramescu, Alexandru Dimitriu, Nicolae Marian Ciurea, Gheorghe Popescu** – *Implant Material does not Influence Gait Analysis following Ankle Fracture Surgery*
- 17.50 – 18.00 **Mihail Nagea, Olivera Lupescu, Taina Avramescu, Alexandru Dimitriu, Nicolae Marian Ciurea, Gheorghe Popescu** – *Gait Analysis in Evaluating Post-Operative Outcome after Cementless Total Hip Replacement*
- 18.00 – 18.10 **Bălțatu Mădălina Simona, Vizureanu Petrică, Focșăneanu Sergiu Ciprian, Istrate Bogdan, Bloch Kasia, Nabialek Marcin, Sandu Andrei Victor** - *Development of Ti-Mo-Si New Biomaterials for Orthopedic Applications*
- 18.10 – 18.20 **Dan Laptoiu, Iosefina Botezatu, Rodica Marinescu, Iulian Antoniac, Ionut Stoia** - *Finite Elements Analysis of failure modes after osteosynthesis with Midfoot Fusion Bolts in Charcot Foot Surgery*
- 18.20 – 18.30 **Mihai Nica, Ene Razvan, Panti Zsombor, Mihnea Popa, Monica Cirstoiu, Cătălin Cirstoiu**– *Soft tissue reactivity to metallic buttons and UHMWPE braided suture wires suspension system used for treatment of Hallux Valgus*
- 18.30 – 18.40 **S Florescu, J M Patrascu, D Cojocar, M Sandesc** – *Adverse reactions to biomaterials used in ACL reconstruction*

17.00 – 19.00 **Session DENTAL BIOMATERIALS 4: Invited Conferences & Oral Presentations**

**Chairs:** Anca Jivănescu (Romania), Luminița Maria Nica (Romania), Luciana Goguță (România)

**SENAT HALL**, Victor Babeş University for Medicine and Pharmacy Timișoara

- 17.00 – 17.20 **Luminita Maria Nica (Romania)** - *The use of bioceramic materials in endodontic therapy*
- 17.20 – 17.40 **Anca Jivănescu (Romania)** - *CAD/CAM technology and ceramic materials: realities and perspectives*
- 17.40 – 17.50 **Radu Rîcă, Eugen Osiac, Nicoleta Cioateră, Horia Manolea, Ana-Maria Rîcă, Cristina Fărcaș-Berechet, Mădălina Olivia Grădinaru, Augustin Iulian Ionescu** – *Optical coherence tomography investigation of dental porcelains with different powder/liquid mixing ratios*
- 17.50 – 18.00 **Alexandru Ogodescu, Virgil Duma, Irina Zetu, Emilia Ogodescu, Gheorghe Huțiu, George Dobre, Adrian Bradu, Adrian Podoleanu** – *Dental brackets: noninvasive investigation using  $\mu$ CT and optical coherence tomography*
- 18.00 – 18.10 **Corina Marcauteanu, Eniko Tunde Stoica, Felicia Elena Mitroi, Cosmin Sinescu, Meda Lavinia Negrutiu, Gheorghe Hutiu, Roxana Beiu, Virgil-Florin Duma** – *Effect of a diode laser treatment on different types of dentine. Analysis using Raman spectroscopy and SEM*
- 18.10 – 18.20 **Felicia Elena Mitroi, Cosmin Sinescu, Corina Marcauteanu, Adrian Vaduva, Danina Muntean, Meda Lavinia Negrutiu, Eniko Tunde Stoica, Florin Topala, Adrian Stan, Virgil-Florin Duma** – *Microscopic analysis of the marginal gaps of Tizian adhesive partial crowns*
- 18.20 – 18.30 **Eniko Tunde Stoica, Corina Marcauteanu, Felicia Elena Mitroi, Cosmin Sinescu, Meda Lavinia Negrutiu, Radu Negru, Virgil Florin Duma** – *Influence of different surface pretreatments on the retention strength of adhesive Tizian partial crowns*
- 18.30 – 18.40 **Atena Galuscan, Daniela Jumanca, Ruxandra Sava Rosianu, Anamaria Matichescu, Octavia Balean** – *Benefits of bio-oxidative ozone therapy in dental prophylaxis*
- 18.40 – 18.50 **Ramona-Amina Popovici, Angela-Codruta Podariu, Alexandra-Sabina Potoroaca, Laura-Cristina Rusu, Alexandra Roi, Sergiu Alexandru Tofan, Bogdan Sink** – *Novelty in the investigation domain in dental medicine*
- 18.50 – 19.00 **Laura-Cristina Rusu, Angela Codruța Podariu, Ramona-Amina Popovici, Alexandra Ro** – *Efficacy of the autofluorescence based system (velscope™) in the detection of oral lesions*

19.30 – 20.30 **SRB General Assembly - AULA MAGNA**, Victor Babeş University for Medicine and Pharmacy Timișoara

21.00 - 24.00 **Gala Dinner** (Ivy Restaurant)

## **SATURDAY, October 07<sup>th</sup>, 2017**

### **09.00-11.00 Session Plenary Keynote Conferences 5**

**Chairs:** Fjola Jonsdottir (Iceland), Cătălin Cârstoiu (Romania)

**AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara**

- 09.00-09.30 **Alexandru-Vlad Ciurea (Romania)** – *Modern biomaterials in endovascular treatment of cerebral aneurysms*
- 09.30-10.00 **Fjola Jonsdottir (Iceland)** - *Thermal fluctuations of an elastic filament confined in a fluid-filled channel*
- 10.00-10.30 **Ion Pătrașcu (Romania)**- *Titanium-alloyed new considerations used in complex oral rehabilitations – clinical perspectives*
- 10.30-11.00 **Adrian Mănescu (Italy)** - *Non-destructive 3D imaging of biomaterials by high-resolution x-ray micro computed tomography and holotomography. Applications in orthopedics and dentistry*

11.00-11.30 **Coffee break** - Victor Babeş University for Medicine and Pharmacy Timișoara

### **11.30–13.30 Session BIOMATERIALS IN NEUROSURGERY: Invited Conferences & Oral Presentations**

**Chairs:** Alexandru Vlad Ciurea (Romania), Vicențiu Săceleanu (Romania), Horia Pleș (Romania)

**AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara**

- 11.30 – 11.50 **Vicențiu Săceleanu (Romania)** - *Titanium miniplate osteosynthesis in maxillofacial surgery*
- 11.50 – 12.10 **Aurel Mohan (Romania)** - *Clinical Perspective on the Biomaterials used to Repair the Cranial Defects*
- 12.10 – 12.20 **Ileana Mariana Mateș, Iulian Antoniac, Augustin Semenescu, Silviu Ionel Dumitrescu, Horațiu Moldovan** – *Current Trends regarding Metallic Stents in Cardiovascular Surgery*
- 12.20 – 12.30 **Alexandru Vlad Ciurea, Aurel Mohan, Luca-Husti Ionut, Ovidiu Gramescu, Dan Bentia**, *A modern biomaterial in neurosurgery-autologous fibrin solutions (AFS) in prevention of major complications (hemorrhagic complications and CSF fistulas)*
- 12.30 – 12.40 **Dan Bentia, Horia Moraru, Alexandru Vlad Ciurea**, *Synthetic bone granules-a useful alternative in spine surgery bone fusion*
- 12.40 – 12.50 **Dan Aurel Nica, R.M. Savu, Horațiu A. Moisa, Alexandru Vlad Ciurea**, *Biomaterials in spinal surgery*
- 12.50 – 13.30 **Discussions.**

### **11.30 – 13.30 Session BIOMATERIALS & BIOMATERIALS IN GENERAL SURGERY 2:**

#### **Invited Conferences & Oral Presentations**

**Chairs:** Elvira Brătilă (Romania), Daniela Ivanov (Romania), Simona Cavalu (Romania)

**AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara**

- 11.30 – 11.50 **Liliana Verestiuc (Romania)** – *Scaffolding Biodegradable Polymers for Soft Tissue Engineering*
- 11.50 – 12.10 **Simona Cavalu (Romania)** – *Selenium nanoparticles: production, characterization and novel biological and medical applications*
- 12.10 – 12.30 **Sebastian Grădinaru (Romania)** – *Indocyanine green (ICG) fluorescence in surgery emerging method*
- 12.30 – 12.50 **Elvira Brătilă (Romania)** - *Gastro-intestinal and urinary symptoms following polypropylene mesh surgery for pelvic organ prolapse*
- 12.50 – 13.00 **Claudia Mehedințu, Elvira Brătilă, Monica Cârstoiu, Costin Berceanu, Marina Antonovic** – *The use of topical hemostatic agents in obstetrics and gynecology - review of literature*
- 13.00 – 13.10 **Raluca Dumache, Veronica Ciocan, Camelia Muresan, Alexandra Enache** – *Genetic information in the DNA era and its ethical implications*
- 13.10 – 13.30 **Discussions.**

### **13.30-14.00 Closing & Award Ceremony**

**AULA MAGNA, Victor Babeş University for Medicine and Pharmacy Timișoara**

14.00-16.00 **Lunch (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)**

Legend for speakers / time for lecture:

**Blue:** keynote speaker (30 min), **Green:** invited speaker (20 min)

## POSTER PRESENTATIONS

**THURSDAY, October 05<sup>th</sup>, 2017**

11.30-11.50 *Coffee break*

*Poster Session –*

*Chairs: Angela Kamer (USA), Melinda Szekely (Romania), Cristina-Maria Borțun (România)  
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara*

1. **Pop Daniela Maria, Craciunescu Emanuela Lidia, Sinescu Cosmin, Florin Ionel Topală, Cristian Zaharia, Alin Gabriel Gabor, Adrian Gheorghe Podoleanu, Mihai Romînu, Meda-Lavinia Negruțiu** - *Assessment of Fixed Partial Prosthesis Made of Thermoplastic Polymers*
2. **Adrian Tudor Stan, Laura Elena Cirligeriu, Adrian Vaduva, Laura Idoresi, Danina Muntean, Felicia Mitroi, Roxana Buzatu, Tareq Hajaj, Meda Lavinia Negrutiu, Cosmin Sinescu, Mihai Rominu** - *Interface evaluation of dental composite resins using confocal laser scanning microscopy and microCT*
3. **Laura Idoresi, Sandra Andreea Secoșan, Alexandru Ogodescu, Cosmin Sinescu, Adrian Tudor Stan, Adrian G. Podoleanu, Meda-Lavinia Negruțiu** - *New methods in combating tooth demineralization – the allopathic medicine challenge*
4. **Simona I. Hategan, Ronald G. Craig, Cosmin Sinescu, Angela R. Kamer, Stefan I. Stratul, Andrei M. Gavrilovic, Anca Jivanescu, Meda Lavinia Negrutiu** - *Chronic oral inflammatory conditions in a Romanian population– focus on periodontal disease*

14.00 – 15.00

*Lunch break (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)*

*Poster Session*

*Chairs: Virgil-Florin Duma (Romania), Cosmin M. Cotrut (Romania), Ioana Csaki (Romania)  
IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara*

5. **A.C. Mocanu, A.Maidaniuc, C.A. Dascălu, M. Miculescu, F.Miculescu**- *Study on experimental and image analysis complementarity as additional tool for characterizing biogenic calcium phosphates morphology*
6. **A.Maidaniuc, A.C. Mocanu, C.A. Dascălu, M. Miculescu, S.I. Voicu, F.Miculescu** - *Effect of sintering time on the particle interconnection of bovine bone-derived hydroxyapatite powders*
7. **Elena Iulia Oprita, Agnes Toma, Larisa Calu and Oana Craciunescu** - *Composite hydrogel enriched with SFD-1 for cartilage regeneration: characterization and biocompatibility*
8. **Luminița Fritea, Mihaela Tertîș, Cecilia Cristea, Alan Le Goff, Serge Cosnier, Robert Săndulescu** - *Graphene Based Biosensors for Dopamine Determination*
9. **Luminița Fritea, Karine Gorgy, Alan Le Goff, Laurent Galmiche, Reynaldo Villalonga, Pierre Audebert, Serge Cosnier, Robert Săndulescu** - *Electrochemical and Fluorescent Studies of Tetrazines based on Host-Guest Complexation both in Solution and Films*
10. **Dragos Peptanariu, Cristina M. Uritu, Luminita Labusca and Mariana Pinteala** - *Transfection of adipose tissue-derived stem cells with Fullerene C60 nanoparticles coated with polyethylenimine and polyethylene glycol*
11. **Ioana A. Tanasa, Anca E. Minuti, Florina D. Ivan, Maria Butnaru, M. Zagnat, Liliana Verestiuc** - *Hydrogels Based on Modified Chitosan and Synthetic Polymers with Applications in Controlled Drug Delivery*
12. **Alexandra Vasilica, Liliana Verestiuc** - *Mechanical Properties of the Hydrogels based on Crosslinked Poly (Acrylic Acid) with Potential Applications in Tissue Engineering*
13. **S. Lupescu, C. Munteanu, B. Istrate, S.I.Strugaru, R.Cimpoesu** - *The influence of Zr on microstructure, mechanical properties and corrosion resistance in Mg-Y-Zr biodegradable alloys*
14. **M. Soare, A.C. Mocanu, C. Iordache, M.V. Predoi, D. Predoi** - *Development of broadband ultrasonic spectroscopy for colloidal suspensions characterization*
15. **Victor Apostol, Nicanor Cimpoesu, Ramona Cimpoesu, Bogdan Pricop** - *Preliminary results of new biodegradable Zn-based alloys analysis*

- 16.30-16.50 **Coffee break**  
**Poster Session – Chairs:** Veronica Mercuț (RO), Diana Dudea (RO)  
**IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara**
16. **Székely Melinda, Frankó Evelin, Molnar-Varlam Cristina, Borș Andreea, Kerekes-Máthé Bernadette** - *In Vitro Evaluation of Microleakage in Dental Restorations of Nano-hybrid Composite with Flowable Composite Liner*
  17. **Bica Cristina Ioana, Feier Andrei, Strnad Gabriela, Portan Diana, Manu Ramona Doina, Dobreanu Minodora, Russu Octav, Petrovan Cecilia** - *Titanium based Nanostructured Surfaces for Biomedical Implants*
  18. **Luciana Goguta, Roxana Vasiliu, Florin Topala, Adrian Candea, Anca Jivanescu** - *Direct and indirect glass fiber reinforced posterior fixed partial dentures*
  19. **Liana Todor, Adrian Almași, Anca Porumb, Cristian Rațiu, Ruxandra Matei** - *In vitro study of the structure and adhesive interface in direct restorations with nanocomposite materials*

**FRIDAY, October 06<sup>th</sup>, 2017**

- 11.30-11.50 **Coffee break**  
**Poster Session – Chairs:** Ilaria Cacciotti (Italy), Răzvan Adam (Romania)  
**IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara**
20. **Antoniac Aurora, Rusu Laura, Milea Claudia, Dragomir Lavinia, Antoniac Iulian** - *Characterization and evaluation of some gel that contains encapsulated eugenol by spectral and microscopic methods*
  21. **Milea Claudia, Antoniac Aurora, Manole Marius, Antoniac Iulian, Aurel Mohan** - *Current trends regarding the use of periodontal dressings*
  22. **Ana Maria Seciu, Alexandra Gaspar, Lucia Moldovan, Alina Ioana Nicu, Florin Miculescu, Oana Craciunescu, Otilia Zarnescu** - *Osteogenic and Antibacterial Properties of Collagen-Chondroitin Sulfate Sponge Functionalized with Fibronectin and Nanosilver for Periodontitis Treatment*
  23. **Camelia Tecu, Lavinia Dragomir, Aurora Antoniac, Olivera Lupescu, Iulian Antoniac, Marius Niculescu, Claudia Milea, Aurel Mohan** - *Characterization and testing of some composites for hard tissue repair and regeneration*
- 13.50 – 15.00 **Lunch break (Fusion Restaurant - Bastion Theresia, Timișoara, Romania)**  
**Poster Session**  
**Chairs:** Horia Manolea (Romania), Lucian-Toma Ciocan (Romania), Marius Manole (Romania)  
**IAGNOV HALL, Victor Babeș University for Medicine and Pharmacy Timișoara**
24. **Alex Sălan, Mădălina Matei, Laurentiu Mogoantă, Iulian Antoniac, Horia Manolea, Gabriel Ghinea, Eduard Ciucă** - *Biodegradation evaluation of some experimental magnesium alloys*
  25. **Mădălina Matei, Alex Sălan, Laurentiu Mogoantă, Nicoleta Cioateră, Horia Manolea, Luiza Nistor, Radu Rîcă** - *Biocompatibility evaluation of some experimental dental zirconia-based ceramics*
  26. **Oana Cella Andrei, Livia Alice Tănăsescu, Mircea Horia Țierean, Mihai Burlibașa, Luminița Dăguci, Marilena Bătăiosu, Constantin Dăguci, Radu Rîcă** - *Influence of masticatory area on stress levels in artificial teeth and saddle in implant supported dentures with attachments*
  27. **Roxana Rugină, Alin Gabor, Cristian Zaharia, Cosmin Sinescu** - *Comparative Evaluation of Molar Intrusion using Mini Screws versus Zygomatic Anchor Plates*
  28. **Laura Cîrligieriu, Marius Boariu, Meda-Lavinia Negruțiu, Virgil Florin Duma, Cosmin Sinescu, Luminița Nica, Adrian Gh. Podoleanu, Adrian Marinescu, Adrian Tudor Stan** - *Evaluation of Marginal Adaptation of Biodentine® in "Open Sandwich" Class II Restorations*
  29. **Roxana Buzatu, Anca S. Vâlceanu, Adrian T. Stan, Meda L. Negruțiu, Radu Negru, Liviu Marșavina, Cosmin Sinescu** - *Mechanical aspects of endocrowns in the aesthetic area*
  30. **Cristiana Pricop, Mihai Romînu, Cosmin Sinescu, Anca Jivănescu** - *Shear bond strength of two luting cements to Empress CAD/CAM Ceramic Blocks, an in vitro study*
  31. **Cristina Savencu, Mihaela Bîrdeanu, Sorin Porojan and Liliana Porojan** - *Corrosion behavior of casted and CAD/CAM milled Co-Cr dental alloys -In vitro study*



32. **Vasilii Roxana-Diana, Savencu Cristina, Lazău Radu; Topală Florin- Ionel, Porojan Liliana** - *Effect of multiple firings on the optical properties of two dental ceramics*
33. **Raluca Mioara Cosoroaba, Cristina Talpos Niculescu, Farcas Andrei, Ali Jamil, Mirella Anghel** - *Orthostatic Consequences In The Dental Practice*
34. **Cristina Ioana Talpos Niculescu, Raluca Mioara Cosoroaba, Larisa Nistor, Mirella Anghel** - *Stress Management In The Practice of Dentistry*

16.40-17.00

***Coffee break***

***Poster Session***

***Chairs: Istrate Bogdan (Romania), Mirabela Georgiana Minciună (Romania)***

***IAGNOV HALL, Victor Babeş University for Medicine and Pharmacy Timișoara***

35. **Adriana Objelean, Laura Silaghi-Dumitrescu, Adrian Florea, Vasile Chis, Cristian Iacoviță** - *Atomic Force Microscopy Analysis of Abrasive Wear Strength of Some Direct Resin-based Composites*
36. **Brigitta Bokor, Amelia Boitor, Mihai Selariu, Alexandru Gavan, Adriana Objelean** - *Radio-tomographic assessment of mechanical behaviour of two resin composites in high-impact masticatory forces simulation*
37. **A.F. Dobre, M. Soare, A.C. Mocanu, A. Maidaniuc, A. Ernuțeanu, F. Miculescu** - *Study on morphological and geometrical features of metallic implants designed for dental restorations*
38. **C. Lufă, M. Soare, A.C. Mocanu, A. Maidaniuc, A. Ernuțeanu, F** - *Comprehensive nondestructive testing on metallic implants destined for orthopedic applications*
39. **Stoia D.I., Hărăguș H., Jurca L** - *Static and dynamic mobility evaluation of the human cervical spine*
40. **Brandusa Ghiban, Dan Batalu, Alexandru Ghiban, Cristina Maria Bortun, Gabriela Popescu** - *Solidification behavior of some CoCrMoTi alloys for biomedical applications*